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# UNDERGRADUATE

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## Eastern Kentucky University Undergraduate Catalog 2022-2023

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disabilities and the rights provided thereunder, as well as all requests for accommodations based upon disability should be directed to this office.

Eastern Kentucky University is committed to providing a healthy and safe environment for its students, faculty and staff through its compliance with the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendment of 1989. In accordance with these laws, students, faculty and staff are hereby notified of the standards of conduct which shall be applicable while on University property, on University business or at University sponsored activities.

By University rules and regulations, federal laws, state laws, and local ordinances, students, faculty and staff are prohibited from the unlawful possession, use, dispensation, distribution, or manufacture of illicit drugs on University property, on University business and/or at University sponsored activities.

Any member of the student body, faculty or staff who violates the University's standards of conduct shall be subject to appropriate disciplinary action up to and including expulsion and/or termination. In addition to disciplinary sanctions, students or employees may face prosecution and imprisonment under federal and/or state laws which make such acts felony or misdemeanor crimes. The specifically defined standards of conduct, the disciplinary procedures and possible sanctions appear in the *Student Handbook* and the *Faculty Handbook*.

Expulsion of a student is permanent separation and removal from the University. The sanction of expulsion must be approved by the University president or the president's designee; it requires a student to be withdrawn or failed from all classes, suspended from the residence halls or graduate housing (if applicable), banned from all University facilities (and subject to arrest for trespassing), rendered ineligible to register for any University class, and prohibited from participating in University activities. The student's transcript will indicate that the student was expelled, with the notation: "Expelled - Ineligible to Return".

Continuous efforts are made to make students, faculty and staff aware of the on-campus and off-campus programs which provide information and professional services on matters related to the abuse of alcohol and drugs. For additional information individuals should contact the Eastern Kentucky University Counseling Center.

## Federal Regulations

### Provisions of the Family Educational Rights and Privacy Act of 1974 (as amended) Public Law 93-380

This is to serve notice to all students of Eastern Kentucky University of the rights and restrictions regarding the maintenance, inspection, and release of student records contained in the Family Educational Rights and Privacy Act of 1974 (FERPA), as amended. The University is composed of five colleges and offers a wide variety of services to students. Each college and service requires the maintenance of some records concerning students enrolled in a particular college or participating in a nonacademic service. The location and type of record maintained by the University depends upon the field of study or service in which the student is enrolled. The following is a list of the types of records maintained by the University for students:

1. Grade reports
2. Transcripts
3. Curriculum information
4. Applications for graduation

5. Correspondence with students, if any
6. Withdrawal records, if applicable
7. Admission forms
8. ACT test scores
9. Student teacher evaluations, if applicable
10. Letters of recommendation, if applicable
11. Nominations for awards if applicable
12. Biographical data
13. Evaluation forms, if applicable
14. Weekly student teacher logs, if applicable
15. Mid-term evaluation, if applicable
16. Records of school visitations, if applicable insurance coverage
17. Physical education requirement waivers
18. Field training evaluations and correspondence, if applicable
19. Professional conduct agreements and liability
20. Disciplinary Records

1. **Access to Records:** In general, the records maintained by the University are available only to the student, to University personnel with legitimate educational interests, to other institutions where the student is seeking financial aid, and to authorized representatives of the Comptroller General of the U.S., the Secretary of Education, or an administrative head of an education agency, in connection with an audit or evaluation of federally support programs, and as provided by Section 164.283 of the Kentucky Revised Statutes. However, information may be released by the institution to appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of a student or other persons. Records may also be furnished in compliance with a judicial order or pursuant to a subpoena or with the consent of the student.

Students may inspect and review all records pertaining to them within forty-five (45) days of making request for same, except for

- a. records created or maintained by a physician, psychiatrist, psychologist or other recognized professional or paraprofessional acting or assisting in a professional capacity in connection with treatment of the student (except that the student may have these records reviewed by a physician or appropriate professional designated by the student),
- b. financial records of the student's parents,
- c. confidential letters and recommendations put in the files prior to January 1, 1975, and
- d. confidential recommendations relating to admission, applications for employment, or honors, if the student has waived his/her right to review such records.

Where a particular record cannot be reviewed by a student without revealing confidential information relating to other students, the records custodian will inform the student, upon request, of the contents of the record pertaining to that student.

Parents who claim a student as a dependent may present their federal tax declaration, in lieu of having the student's written consent, to gain access to information concerning their children's grades.

2. **Disciplinary Records:** Disciplinary records are defined as those records (maintained in any format) which relate exclusively to violations of University **General Regulations Governing Student**

**Behavior** which have been adjudicated through the office of Student Rights and Responsibilities. Complaints to the Office of Student Rights and Responsibilities which have been dismissed or withdrawn by the University are not considered disciplinary records. A student disciplinary record includes and is limited to:

- a. violation report,
- b. student notification letter,
- c. sanction sheet,
- d. notice of hearing,
- e. students right form,
- f. roll call of hearing participants in any hearing,
- g. documents presented as evidence during any hearing,
- h. record of Student Disciplinary Council hearing;
- i. appeal letter with accompanying documents; and
- j. final disposition of appeal.

3. **Directory Information:** The University may release information without the student's consent where the information is classified as "directory information." The following categories of information have been designated by the University as directory information: name, address (excluding EKU residence hall room number), telephone listing (excluding cell phone), email address, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, academic level (undergraduate or graduate), academic class (freshman, sophomore, junior, or senior), dates of attendance, enrollment status, degrees and awards received, student photo or likeness, and the most recent previous education institution attended by the student. Students who do not wish such information released without their consent should notify the Student Records Office in writing. Any such request should be sent to

Office of the Registrar, Office of Academic Records/Transcripts  
Eastern Kentucky University  
Whitlock Building Room 239, CPO 58  
521 Lancaster Avenue  
Richmond, Kentucky 40475-3158

4. **Notification of Rights Under FERPA for Postsecondary Institutions:** The Family Educational Rights and Privacy Act affords students certain rights with respect to their education records. All EKU students are informed of their FERPA rights each year during the fall term through an email notification sent to their official EKU email address. Each student's FERPA rights are:
  - a. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
  - b. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

- c. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate education interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

- d. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA are:

Family Policy Compliance Office  
U.S. Department of Education  
600 Independence Avenue SW  
Washington, DC 20202-4605

5. **Procedures for Challenge:** A student who believes that any record maintained by the University pertaining directly to that student is inaccurate, misleading, or otherwise violative of the right of privacy of the student as provided by Title IV of Pub. L. 90-247, as amended, and Publ. L. 93-380 as amended by Senate Joint Resolution 40 (1974) may request a hearing before a panel of three persons appointed by the President of the University. The panel may direct that appropriate action be taken to correct, explain, or expunge the record(s) challenged.

Request for hearings should be addressed to the

Office of University Counsel  
Eastern Kentucky University  
Coates Room 205, CPO 40A  
521 Lancaster Avenue  
Richmond, Kentucky 40475-3102.

## Student Right-To-Know Act (Pub. L. 101-542)

### Eastern Kentucky University 1999-2000

Section 103 of the Student Right-To-Know and Campus Security Act of 1990 (Public Law 101-542) as amended by the Higher Education Technical Amendments of 1991 (Public Law 102-26) requires public

disclosure of relevant graduation rate information for students enrolled in colleges and universities receiving federal financial assistance annually beginning July 1, 1993. Graduation rate information is published each year in the *University Handbook for Students* or may be obtained upon request from the

Office of the Senior Vice President for Academics and Provost  
Coates Administration Building  
Room 110, CPO 30A  
521 Lancaster Avenue  
Richmond, Kentucky 40475-3102.

## About Eastern Kentucky University Introduction

Eastern Kentucky University is a regional, coeducational, public institution of higher education offering general and liberal arts programs, pre-professional and professional training in education and various other fields at both the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, Eastern Kentucky University has a distinguished record of more than a century of educational service to the Commonwealth.

Situated near the heart of the Bluegrass, Richmond is served by a network of major highways which makes Eastern Kentucky University easily accessible from all parts of Kentucky and surrounding states. Richmond is 26 miles southeast of Lexington, Kentucky. Interstate Highways 1-75 (north-south) and I-64 (east-west) make the metropolitan areas of Cincinnati, 112 miles to the north, and Louisville, 110 miles to the west, within convenient distance by automobile. Richmond is also served by U.S. Route 25 from south Eastern Kentucky and Kentucky Route 52 from the east and west. The Kentucky Turnpike and the Mountain, Hal Rogers, and Cumberland Parkways provide even greater accessibility by automobile since the city is located near the convergence of these arterial highways into the interstate system.

Richmond, the county seat of Madison County, is an expanding community of approximately 30,000 population.

In and around Richmond are many areas of historic and scenic interest. Boonesborough State Park, birthplace of Kentucky, is located 12 miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

## History

The Kentucky General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. Beckham signed the bill into law on March 21, 1906. On May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of the old Central University, founded in 1874, in Richmond, Kentucky, as the site of the new school. On June 2, 1908, Ruric Nevel Roark was chosen President of the Normal School and the training of teachers was begun.

In 1922, Eastern Kentucky University became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts degree in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the college and granted the college the right to award nonprofessional degrees.

The most significant day since its founding came for Eastern on February 26, 1966, when Governor Edward T. Breathitt signed into law a bill renaming the institution Eastern Kentucky University (EKU) and sanctioning the awarding of graduate degrees in academic fields other than education.

During this period of time, Eastern Kentucky University has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the University today serves thousands of Kentuckians. The curriculum leads to associate degrees, baccalaureate degrees, and an expanding graduate program that currently offers degrees at the master's level in many other fields as well as the already well-established Master of Arts degree in Education and the various fifth- and sixth-year leadership programs in education. Specialist degree programs have been implemented in education and psychology.

In 2008, EKU offered its first doctoral degree, the Doctor of Education (Ed.D.). Since that time, EKU also offers the Doctor of Nursing Practice (DNP) and the Occupational Therapy Doctorate (OTD).

Ever-mindful of the purpose of its founding, Eastern continues to recognize its historic function of preparing quality teachers for the elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas and graduate programs, enable Eastern to serve the Commonwealth as a regional comprehensive university.

## Experience Excellent: EKU's 2022-2030 Strategic Plan

### Mission Statement

Eastern Kentucky University is the School of Opportunity where everyone belongs. World class faculty and staff create opportunities for personal growth through exceptional experiences, to ensure students realize their fullest potential and achieve excellence. EKU graduates shape the success and vitality of their professions and communities.

### Vision

Eastern Kentucky University will be excellent in all that we choose to do.

### Strategic Priorities

#### Goal 1: Knowledge

Knowledge is at the center of EKU's commitment to serve as the School of Opportunity. From academic teaching and learning to experiential co- and extracurricular activities, EKU strategically advances academic and student success programs that support EKU's diverse learners.

#### Goal 2: Innovation

Innovative thinking and bold action will elevate and differentiate EKU. Innovation will enhance organizational stewardship, intellectual and creative capacity, and economic vitality within EKU and the communities we serve.

#### Goal 3: Transformation

EKU is dedicated to transforming lives and communities. EKU's learning environments support intellectual growth, creativity, empowerment, and life-changing experiences by centering access, equity, dignity, respect, and inclusivity.

### Guiding Values

**Inclusion:** Community engagement, Diversity of people and perspectives, Professional growth, Hospitality, Celebration

**Trust:** Consistency, Effective communication, Accountability, Efficiency, Leadership

Since its inception in 1874, Eastern Kentucky University (then known as Central University) has been driven by core values. Although its mission has evolved and expanded to meet the changing needs of citizens of the Commonwealth (and increasingly other places in the world), core values are still an integral part of the University community. Values are the code of organizational conduct. They guide decision-making in all parts of the University. They direct our actions and must inspire all of us in the EKU community to be true to them. The EKU community is committed to embodying these values in our policies and procedures in our day-to-day activities to accomplish our mission and achieve our vision. EKU has been and will continue to be guided by the following values when planning strategies and implementing decisions regarding the University community's teaching, scholarly, and service activities.

## Admission and Residency

- Admission (p. 19)
- Kentucky Pre-College Curriculum (p. 22)
- Student Residency (p. 23)
- Residency Appeals Policy and Procedures (p. 27)

## Admission to the University

### General Requirements for Undergraduate Admission

All applicants must provide an application and evidence of appropriate scholastic achievement through prior educational experience.

Please note that certain degree programs have special admission requirements. Admission to the University does not mean automatic admission to all degree programs.

The completed application and all required supporting documentation must be received by the University no later than:

- August 1 for fall enrollment
- December 1 for spring enrollment
- May 1 for summer enrollment

To apply for undergraduate admission to Eastern Kentucky University (EKU), submit an application at [apply.eku.edu](http://apply.eku.edu) (<http://apply.eku.edu>) and submit your materials noted below electronically or by mail to:

Office of Admissions  
Eastern Kentucky University  
Whitlock Bldg. 112, CPO 54  
521 Lancaster Avenue  
Richmond, KY 40475-3154.

## Admission Requirements for First-Time Freshmen

### Standard Admission

Students who meet the criteria of unweighted high school grade point average of 2.5-4.00 on a 4.00 scale will be granted Standard Admission.

### Success First Admission

Students who have a cumulative unweighted high school grade point average of 2.0-2.49 on a 4.0 scale will be granted Success First Admission and must successfully complete directed coursework during the first academic year.

1. **Note:** All admitted students must meet the state-mandated college readiness standards for all subjects prior to registering for classes, or they must enroll in required preparatory coursework beginning their first academic semester.

While ACT scores are not required, students are encouraged to submit scores for proper course placement in English, mathematics, and reading courses. If scores are not provided, students will be required to prove proficiency through testing or appropriate course completion. Questions may be directed to the Office of Admissions, 859-622-1892.

*Although test scores are not used for admission purposes, they are required for course placement and academic readiness purposes. Students will be required to provide proof of high school graduation or GED prior to attending classes and disbursement of financial aid.*

### Admission on Appeal

Students who apply but are denied admission to the University may submit an appeal to the Admissions Appeals Committee. New first time freshmen must have a 2.0 minimum GPA in order to appeal their admission decision. The committee will carefully consider all aspects of the applicant's situation, including academic record, ACT or SAT scores that indicate the applicant has met benchmarks in the academic readiness areas of English, mathematics, and/or reading and desire to attend EKU, as presented in the appeal request. If granted admission by the committee, students will partner with an academic success coach and sign a Student Success Agreement specifying academic expectations and requirements for remaining enrolled at the University.

The admissions appeal information regarding the process can be found on the EKU Admissions website. For more information regarding the Student Success Agreement, see that portion of the catalog.

### Requirements for International Students

International applicants must also submit:

1. International application for admission
2. TOEFL Scores-minimum requirement 530 (paper based), 195 (computer based), 95 or higher on the Duolingo English Test, or 71 (internet based with no band score below 16) OR Official IELTS Scores- must have at least 5.0 in all categories and 6.0 overall. Prospective Japanese students may qualify with an EIKEN test score of Pre-1. Eastern Kentucky University will accept completion of level 112 from any English Language Services (ELS) program in lieu of TOEFL/IELTS Scores. Students may also submit ACT or SAT scores with reading and English scores for consideration as demonstrated language proficiency. ACT sub-scores of an 18 in English and 19 in Reading OR SAT Evidence-Based Reading + Writing score of 510

or higher will also be sufficient to meet the English Language and Reading requirements. Applicants may petition to appeal their English Language Requirement, with significant justification, (i.e. test scores, US coursework, or work experience in English). An appeals committee will meet to determine eligibility and conduct an oral and written interview with the applicant.

3. Declaration and Certification of Finances and a supporting bank letter, showing financial support to attend Eastern Kentucky University.
4. Official Secondary School Record(s) provided to the Office of Admissions with a 2.5 GPA on a 4.0 scale. If transcripts are not in English or 4.00 grade scale, an official evaluation and translation must be provided. Photocopies are not acceptable unless they are certified copies.
5. Official College or University transcripts (Photocopies of academic documents are not considered official unless they carry an original signature and stamp of authorization from the issuing institution). You must have a minimum institutional GPA of 2.0 and at least 24 credit hours from an accredited institution. University level courses taken at institutions outside of the U.S. must be evaluated by an outside NACES (<https://www.naces.org/>) or AACRAO affiliated agency. Questions regarding the process of foreign transcript evaluation may be directed to the Office of Admissions. Photo copies are not accepted.

### Requirements for Admission as a Transfer Student

To be admitted as a transfer student, you must:

1. Submit a final official transcript from each regionally accredited institution you have attended. Eastern Kentucky University does not accept credits from institutions that are not regionally accredited. Note that the transcript must be sent from the student's institution to Eastern Kentucky University's Office of Admissions. Hand-carried transcripts that are not sealed will not be accepted. See Section Five of this catalog for information regarding transfer course credit.
2. Have a 2.0 grade point average (GPA) on a 4.0 scale on all work from accredited institutions.
3. Provide evidence that you are eligible to return to any institution you have previously attended when good academic standing is not indicated on the official transcript.
4. Students with less than 24 college academic credits awarded since high school graduation will be considered first time freshmen for admissions purposes and will need to submit high school transcripts. While ACT scores are not required for transfer students with less than 24 credit hours earned since high school graduation, students are encouraged to submit scores for proper course placement in English, mathematics, and reading courses. If proficiency in English, mathematics, and/or reading cannot be established by a review of the college transfer record, students will be required to prove proficiency through testing or appropriate course completion. Questions may be directed to the Office of Admissions, 859-622-1892.

**Note:** If you are admitted as a transfer student, your institutional GPA will include hours attempted and quality points earned from all regionally accredited institutions. The Office of Advising & Career Services and the academic department of your major will determine the applicability of your courses to your academic program.

**Note:** Eastern Kentucky University subscribes fully to the policies of the "General Education Transfer Agreement" of the Kentucky Council on Postsecondary Education. Thus, Eastern Kentucky University will

apply courses transferred from Kentucky public institutions to its general education requirements in accord with those policies.

## Requirements for Readmission

All previously enrolled ECU undergraduate students who have not attended Eastern Kentucky University for a period longer than 24 months must apply and be approved for readmission to the University before being allowed to continue taking classes.

Students who wish to return to ECU but were academically suspended or dismissed with an institutional GPA of less than a 1.5 must appeal for readmission through the Registrar's Office, in addition to submitting an application for readmission to the Office of Admissions. The form and instructions for an appeal for readmission can be found on the ECU Registrar's website.

If the student's appeal is approved he/she will be readmitted upon submitting an application for readmission. Both the application to the Office of Admissions, and the appeal to the Registrar's Office may be submitted simultaneously.

If their appeal to return to ECU is approved these students will return on Academic Probation status. They will be assigned an academic coach in the Office of Advising and Career Services, and will develop an academic success plan with their coach before being allowed to register for classes. Continued enrollment is contingent upon adherence to their signed academic Student Success Agreement and meeting ECU Academic Standards Policy.

If a student has attended another institution since leaving ECU, and has been out of the University for longer than 24 months, his/her return to ECU will be considered under the readmission guidelines above instead of the student being considered a transfer student.

Students who were dismissed under the former Developmental Dismissal policy must submit documentation (a transcript or official test scores) indicating that proficiency has been earned for any needed developmental coursework before they may be readmitted to the University.

See the "Stopping Out" procedure in Section Five for additional information.

## Other Types of Admission

### 1. High School Specials

High School Specials Students must have completed middle school, be enrolled in a high school, meet the 2.5 minimum GPA requirement and obtain the written recommendation of an administrator (i.e., principal or guidance counselor).

### 2. ECU Dual Credit

ECU's dual credit program is open to high school juniors and seniors, residing within Kentucky, who meet eligibility requirements, and whose school is partnering with ECU through a memorandum of agreement. Dual credit programs are designed to reduce degree cost and time to degree for Kentucky students.

Dual Credit students may enroll in a maximum of 2 courses per fall and spring semester of their junior and senior years in high school at the reduced dual credit tuition rate. Dual credit students are enrolled as non-degree seeking students in order to maintain freshman eligibility after high school graduation. Enrollment in dual credit courses as a non-degree seeking student does not guarantee admission as a degree seeking

student. A maximum of eight courses in total may be taken at the dual credit tuition rate.

Students may enroll at any ECU campus offering applicable courses. Courses may include general education courses, career pathway courses or departmentally approved introductory courses for specific majors. Students may attend approved ECU courses on high school campuses via face-to-face, telepresence, or online instruction.

Students are required to meet all course pre-requisites. Students are not permitted to enroll in academic readiness corequisite courses.

ECU Dual Credit courses offered in the high school are to be composed only of students enrolled for ECU Credit.

To qualify for the ECU Dual Credit Program, high school juniors or seniors must have a cumulative 2.5 weighted high school GPA.

To apply for ECU Dual Credit, students must submit an online Dual Credit application, ACT scores, a high school transcript and a consent form (located on the ECU Dual Credit website) by the application deadline.

While ACT scores are not required for admission purposes, students are encouraged to submit scores for proper course placement in English, mathematics, and reading courses.

Dual Credit students will attend special advising sessions and register for courses during a specified period prior to the beginning of an academic semester. Advising and registration sessions will be available on each of ECU's participating campuses.

Continued participation in ECU's Dual Credit program is dependent upon successful completion of courses. Dual Credit students are expected to maintain a 2.0 minimum institutional GPA. Students who earn a "D" or an "F" in a course(s) will be required to successfully repeat the course(s) and earn a 2.0 term GPA in order to continue in the Dual Credit program. Students who elect to repeat a course will contact the Office of the Registrar for registration approval and assistance. Students repeating courses will be charged full dual credit tuition.

All dual credit students are responsible for the cost of tuition, textbooks (including digital texts), course materials/supplies, and parking permits when applicable. Students, 16 and older, electing to use the Student Recreation Center may request that this charge be added to their accounts.

**Note:** KYOTE test scores, ECU Placement Test scores, ALEKS Mathematics scores, or PSAT scores may be substituted for ACT sub-scores. Additional information on academic readiness scores is available from ECU Academic Testing: 859-622-1281 or visit <https://academicreadiness.eku.edu/>

Exceptions to the high school GPA requirement for juniors and seniors will be taken into consideration upon the written recommendation of the high school principal. The request will be routed through the Office of the Senior Vice President for Academics and Provost for final approval. High schools may have a maximum of 2% of their ECU Dual Credit enrollment (or two students, whichever is higher) participating under the high school GPA exception.

### 3. Early High School Graduates

Applicants must meet full admissions requirements to the university:

- A minimum cumulative GPA of 2.0 on a 4.0 scale
- A complete application consists of:

- EKU Application (apply.eku.edu (<http://www.apply.eku.edu>))
  - An Official High School Transcript
- Applicants must have a date of graduation prior to the start of your intended term of entry. If the high school transcript does not include an expected graduation date, we may need additional time to follow up with your high school.
  - The high school transcript must reflect that the student has completed at least 75% of our recommended high school course work (equivalent to completion of junior year) before we can make decision. For most early graduates, we expect to see at least six semesters of high school work completed, though we may review transcripts with just five semesters completed for applicants graduating a full year early.
  - A letter from the applicant's counselor, on official letterhead, stating that early graduation has been approved by the High School. If the student is completing early graduation through the State of Kentucky, a Letter of Intent must be completed as well.
  - Admission is conditional until a final, official high school transcript has been received. Admitted students are not able to register for the second semester of enrollment until a final, official transcript has been received.

#### 4. Visiting Students

If you are a student at another institution and wish to enroll at Eastern Kentucky University as a visiting, or "transient," student, you may be admitted by submitting an official transcript or a statement indicating that you are eligible to return to your institution.

#### 5. Admission as a Non-Degree Student

Upon submission of an application, you may be admitted as a non-degree student provide you have graduated from high school or earned a G.E.D. If so admitted,

1. Your eligibility for enrollment in specific courses will be dependent upon meeting the stated course prerequisites.
2. You must meet with an academic advisor to be advised and receive a RAC number;
3. You will **not** be eligible to receive financial assistance awards.

If you subsequently decide to pursue a degree, you must reapply for admission as a degree seeker. If you are thus admitted,

1. You will be required to remediate all pre-college curriculum deficiencies and to satisfy all Eastern Kentucky University academic readiness requirements.

#### 6. O'Donnell Scholarship Recipients

If you are at least 65 years of age, you may be admitted to Eastern Kentucky University with a waiver of tuition. You need submit only an application for admission.

#### 7. Home-Schooled Students

Eastern Kentucky University applies the same admissions requirements to home-schooled students as those who graduate from a public or private high school.

Home-schooled students are subject to the secondary education standards established by the Kentucky Department of Education and the Kentucky Council on Post Secondary Education. This includes meeting the curriculum guidelines of the State approved Pre-College Curriculum.

In order to gain admission to Eastern Kentucky University, in addition to the application and application fee, these students must submit a copy of their official transcript demonstrating they have met the PCC curriculum and have a minimum cumulative GPA of 2.0 on a 4.0 scale. They must also submit an official ACT or SAT score report.

#### 8. International Baccalaureate

Students who complete the International Baccalaureate Diploma may present their official exam results for demonstration of completion of secondary education. Based on the exam scores received, students will qualify for advanced academic placement (See Section Four General Academic Information or [www.testing.eku.edu](http://www.testing.eku.edu) (<http://www.testing.eku.edu>)).

### Kentucky Pre-College Curriculum

The Kentucky Pre-College Curriculum (PCC) is defined by the Kentucky Council on Postsecondary Education (CPE). According to the state admissions guidelines "pre-college curriculum" means completion of:

1. The Kentucky minimum high school graduation requirements, or another approved course of study; and
2. two units of a single world language, or demonstration through assessment of a world language proficiency.

The PCC better prepares students for college-level work and reflects high school graduation requirements established by the state of Kentucky.

Kentucky minimum high school graduation requirements are a prescribed set of high school courses required for admission to an associate or baccalaureate degree program at a Kentucky public university:

- 4 credits of Language Arts (English I, English II, English III, English IV; students not meeting Kentucky college readiness benchmarks for Language Arts shall take an English transition course or intervention before exiting high school);
- 3 credits of Mathematics (to include Algebra I, Geometry or Algebra II; any mathematics course other than these listed shall be counted as an elective; students not meeting Kentucky college readiness benchmarks for mathematics shall take a mathematics transition course or intervention before exiting high school);
- 3 credits of Social Studies;
- 3 credits of Science (to include a lab-based scientific investigation experience);
- 1 credit of History and Appreciation of Visual and Performing Arts;
- a ½ credit of Health;
- a ½ credit of Physical Education.

World Languages Requirement: In addition to the above listed high school graduation requirements, high school students should complete two levels of the same World Language to be considered as having met the PCC for Kentucky universities. Students who do not complete two levels of the same World Language in high school are required to complete two levels (six credit hours) of the same Foreign Language at EKU. The following EKU courses will satisfy the World Languages PCC:

- ASL 101 American Sign Language I and ASL 102 American Sign Language II; or
- FLS 101 Language Topics:\_\_\_ and FLS 102 Language Topics:\_\_\_;or
- FRE 101 Conversational French I and FRE 102 Conversational French II; or

- GER 101 Conversational German and GER 102 Conversational German II; or
- JPN 101 Conversational Japanese I and JPN 102 Conversational Japanese II; or
- LAT 101 Beginning Latin I and LAT 102 Beginning Latin II; or
- SPA 101 Conversational Spanish I and SPA 102 Conversational Spanish II.

Note: Transfer students who have completed 6 hours in another World Language, such as Chinese, Portuguese, Urdu, etc. will be considered as having met the World Languages PCC. All college-level World Languages classes count toward degree credit.

Students under 21 years of age must complete the Pre-College Curriculum if they are admitted to the University as a degree seeking student and transfer to EKU with fewer than 24 credit hours. PCC deficiencies must be remediated via placement in the appropriate General Education courses before college graduation.

Questions about Kentucky Pre-College Curriculum requirements may be directed to any of the following offices: Academic Readiness, Admissions, or Advising.

## Student Residency

Since registration and other fees and residence hall room rents are subject to change periodically, no attempt is made in this publication to itemize these costs. This information is available from the Office of Admissions prior to the beginning of each academic year.

Any veteran of the Armed Forces of the United States or National Guard who is eligible for Post-9/11 GI Bill® benefits who enrolls as a student in the university as a non-Kentucky resident will be charged no more than the maximum tuition reimbursement provided under the Post-9/11 GI Bill® to public universities for eligible Kentucky residents. Veterans must submit a DD-214 or VA Certificate (Letter) of Eligibility for Post 9-11 (Chapter 33) GI Bill® benefits through the Office of Military and Veterans Affairs to the Office of Admissions to validate their eligibility for this provision.

### 13 KAR 2:045. Determination of residency status for admission and tuition assessment purposes.

**Relates to:** KRS 13B, 164.020, 164.030, 164A.330(6), 38 U.S.C. 3301-3325

**Statutory Authority:** KRS 164.020(8)

## Necessity, Function, and Conformity

KRS 164.020(8) requires the Council on Postsecondary Education to determine tuition and approve the minimum qualifications for admission to a state-supported postsecondary education institution and authorizes the Council to set different tuition amounts for residents of Kentucky and for nonresidents. This administrative regulation establishes the procedure and guidelines for determining the residency status of a student who is seeking admission to, or who is enrolled at, a state-supported postsecondary education institution.

### Section 1. Definitions

1. "Academic term" means a division of the school year during which a course of studies is offered, and includes a semester, quarter, or single consolidated summer term as defined by the institution.
2. "Continuous enrollment" means enrollment in a state-supported postsecondary education institution at the same degree level for consecutive terms, excluding summer term, since the beginning of the period for which continuous enrollment is claimed unless a sequence of continuous enrollment is broken due to extenuating circumstances beyond the student's control, such as serious personal illness or injury, or illness or death of a parent.
3. "Degree level" means enrollment in a course or program which could result in the award of a:
  - a. Certificate, diploma, or other program award at an institution;
  - b. Baccalaureate degree or lower, including enrollment in a course by a nondegree-seeking postbaccalaureate student;
  - c. Graduate degree or graduate certification other than a first-professional degree in law, medicine, dentistry, or "Pharm. D"; or
  - d. Professional degree in law, medicine, dentistry, or "Pharm. D".
4. "Dependent person" means a person who cannot demonstrate financial independence from parents or persons other than a spouse and who does not meet the criteria for independence established in Section 5 of this administrative regulation.
5. "Determination of residency status" means the decision of a postsecondary education institution that results in the classification of a person as a Kentucky resident or as a nonresident for admission and tuition assessment purposes.
6. "Domicile" means a person's true, fixed, and permanent home and is the place where the person intends to remain indefinitely, and to which the person expects to return if absent without intending to establish a new domicile elsewhere.
7. "Full-time employment" means continuous employment for at least forty-eight (48) weeks at an average of at least thirty (30) hours per week.
8. "Independent person" means a person who demonstrates financial independence from parents or persons other than a spouse and who meets the criteria for independence established in Section 5 of this administrative regulation.
9. "Institution" means an entity defined by KRS 164.001(12) if the type of institution is not expressly stated and includes the Kentucky Virtual University, the Council on Postsecondary Education, and the Kentucky Higher Education Assistance Authority.
10. "Kentucky resident" means a person determined by an institution for tuition purposes to be domiciled in, and a resident of, Kentucky as determined by this administrative regulation.
11. "Nonresident" means a person who:
  - a. Is domiciled outside Kentucky;
  - b. Currently maintains legal residence outside Kentucky; or
  - c. Is not a Kentucky resident as determined by this administrative regulation.
12. "Parent" means one (1) of the following:
  - a. A person's father or mother; or
  - b. A court-appointed legal guardian if:
    - i. The guardianship is recognized by an appropriate court within the United States;
    - ii. There was a relinquishment of the rights of the parents; and
    - iii. The guardianship was not established primarily to confer Kentucky residency on the person.
13. "Preponderance of the evidence" means the greater weight of evidence or evidence that is more credible and convincing to the mind.

14. "Residence" means the place of abode of a person and the place where the person is physically present most of the time for a noneducational purpose in accordance with Section 3 of this administrative regulation.
15. "Student financial aid" means all forms of payments to a student if one (1) condition of receiving the payment is the enrollment of the student at an institution, and includes student employment by the institution or a graduate assistantship.
16. "Sustenance" means:
  - a. Living expenses, such as room, board, maintenance, and transportation; and
  - b. Educational expenses, such as tuition, fees, books, and supplies.

## Section 2. Scope

1. State-supported postsecondary education institutions were established and are maintained by the Commonwealth of Kentucky primarily for the benefit of qualified residents of Kentucky. The substantial commitment of public resources to postsecondary education is predicated on the proposition that the state benefits significantly from the existence of an educated citizenry. As a matter of policy, access to postsecondary education shall be provided so far as feasible at reasonable cost to a qualified individual who is domiciled in Kentucky and who is a resident of Kentucky.
2. In accordance with the duties established in KRS 164.020, the Council on Postsecondary Education may require a student who is neither domiciled in, nor a resident of, Kentucky to meet higher admission standards and to pay a higher level of tuition than resident students.
3. Unless otherwise indicated, this administrative regulation shall apply to all student residency determinations, regardless of circumstances, including residency determinations made by:
  - a. The state-supported institutions for prospective and currently-enrolled students;
  - b. The Southern Regional Education Board for contract spaces;
  - c. Reciprocity agreements, if appropriate;
  - d. The Kentucky Virtual University;
  - e. Academic common market programs;
  - f. The Kentucky Educational Excellence Scholarship Program; and
  - g. Other state student financial aid programs, as appropriate.
4. If applicable, other materials required by an institution and consistent with this administrative regulation; and
5. Other information available to the institution from any source.
3. An individual seeking a determination of Kentucky residency status shall demonstrate that status by a preponderance of the evidence.
4. A determination of residency status shall be based upon verifiable circumstances or actions.
5. Evidence and information cited as the basis for Kentucky domicile and residency shall accompany the application for a determination of residency status.
6. A student classified as a nonresident shall retain that status until the student is officially reclassified by an institution.
7. A student may apply for a review of a determination of residency status once for each academic term.
8. If an institution has information that a student's residency status may be incorrect, the institution shall review and determine the student's correct residency status.
9. If the Council on Postsecondary Education has information that an institution's determination of residency status for a student may be incorrect, it may require the institution to review the circumstances and report the results of that review.
10. An institution shall impose a penalty or sanction against a student who gives incorrect or misleading information to an institutional official, including payment of nonresident tuition for each academic term for which resident tuition was assessed based on an improper determination of residency status. The penalty or sanction may also include:
  - a. Student discipline by the institution through a policy written and disseminated to students; or
  - b. Criminal prosecution.

## Section 3. Determination of Residency Status; General Rules

1. A determination of residency shall include:
  - a. An initial determination of residency status by an institution:
    - i. During the admission process;
    - ii. Upon enrollment in an institution for a specific academic term; or
    - iii. For admission into a specific academic program;
  - b. A reconsideration of a determination of residency status by an institution based upon a changed circumstance; or
  - c. A formal hearing conducted by an institution upon request of a student after other administrative procedures have been completed.
2. An initial determination of residency status shall be based upon:
  - a. The facts in existence when the credentials established by an institution for admission for a specific academic term have been received and during the period of review by the institution;
  - b. Information derived from admissions materials;

## Section 4. Presumptions Regarding Residency Status

1. In making a determination of residency status, it shall be presumed that a person is a nonresident if:
  - a. A person is, or seeks to be, an undergraduate student and admissions records show the student to be a graduate of an out-of-state high school within five (5) years prior to a request for a determination of residency status;
  - b. A person's admissions records indicate the student's residence to be outside of Kentucky when the student applied for admission;
  - c. A person moves to Kentucky primarily for the purpose of enrollment in an institution;
  - d. A person moves to Kentucky and within twelve (12) months enrolls at an institution more than half time;
  - e. A person has a continuous absence of one (1) year from Kentucky; or
  - f. A person attended an out-of-state higher education institution during the past academic year and paid in-state tuition at that institution.
2. A presumption arising from subsection (1) of this section shall only be overcome by preponderance of evidence sufficient to demonstrate that a person is domiciled in and is a resident of Kentucky.

## Section 5. Determination of Whether a Student is Dependent or Independent

1. In a determination of residency status, an institution shall first determine whether a student is dependent or independent. This provision shall be predicated on the assumption that a dependent

person lacks the financial ability to live independently of the person upon whom the student is dependent, and therefore, lacks the ability to form the requisite intent to establish domicile.

A determination that a student is independent shall be one (1) step in the overall determination of whether a student is or is not a resident of Kentucky.

2. In determining the dependent or independent status of a person, the following information shall be considered, as well as other relevant information available when the determination is made:
  - a.
    - i. Whether the person has been claimed as a dependent on the federal or state tax returns of a parent or other person for the year preceding the date of application for a determination of residency status; or
    - ii. Whether the person is no longer claimed by a parent or other person as a dependent or as an exemption for federal and state tax purposes; and
  - b. Whether the person has financial earnings and resources independent of a person other than an independent spouse necessary to provide for the person's own sustenance.
3. An individual who enrolls at an institution immediately following graduation from high school and remains enrolled shall be presumed to be a dependent person unless the contrary is evident from the information submitted.
4. Domicile may be inferred from the student's permanent address, parent's mailing address, or location of high school of graduation.
5. Marriage to an independent person domiciled in and who is a resident of Kentucky shall be a factor considered by an institution in determining whether a student is dependent or independent.
6. Financial assistance from, or a loan made by, a parent or family member other than an independent spouse, if used for sustenance of the student:
  - a. Shall not be considered in establishing a student as independent; and
  - b. Shall be a factor in establishing that a student is dependent.

## Section 6. Effect of a Determination of Dependent Status on a Determination of Residency Status

1. The effect of a determination that a person is dependent shall be:
  - a. The domicile and residency of a dependent person shall be the same as either parent. The domicile and residency of the parent shall be determined in the same manner as the domicile and residency of an independent person; and
  - b. The domicile and residency of a dependent person whose parents are divorced, separated, or otherwise living apart shall be Kentucky if either parent is domiciled in and is a resident of Kentucky regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to federal or Kentucky income tax provisions.
2. If the parent or parents of a dependent person are Kentucky residents and are domiciled in Kentucky, but subsequently move from the state:
  - a. The dependent person shall be considered a resident of Kentucky while in continuous enrollment at the degree level in which currently enrolled; and
  - b. The dependent person's residency status shall be reassumed if continuous enrollment is broken or the current degree level is completed.

## Section 7. Member or Former Member of Armed Forces of the United States, Spouse and Dependents; Effect on a Determination of Residency Status

1. A member, spouse, or dependent of a member whose domicile and residency was Kentucky when inducted into the Armed Forces of the United States, and who maintains Kentucky as home of record and permanent address, shall be entitled to Kentucky residency status:
  - a. During the member's time of active service; or
  - b. If the member returns to this state within six (6) months of the date of the member's discharge from active duty.
2.
  - a. A member of the armed services on active duty for more than thirty (30) days and who has a permanent duty station in Kentucky shall be classified as a Kentucky resident and shall be entitled to in-state tuition as shall the spouse or a dependent child of the member.
  - b. A member, spouse, or dependent of a member shall not lose Kentucky residency status if the member is transferred on military orders while the member, spouse, or dependent requesting the status is in continuous enrollment at the degree level in which currently enrolled.
3. Membership in the National Guard or civilian employment at a military base alone shall not qualify a person for Kentucky residency status under the provisions of subsections (1) and (2) of this section. If a member of the Kentucky National Guard is on active duty status for a period of not less than thirty (30) days, the member shall be considered a Kentucky resident, as shall the spouse or a dependent child of the member.
4. A person eligible for benefits under the federal Post-9/11 Veterans Educational Assistance Act of 2008, 38 U.S.C. 3301-3325, or any other educational benefits provided under Title 38 of the United States Code shall be entitled to Kentucky resident status for purposes of tuition charged at state-supported institutions.
5. A person's residency status established pursuant to this section shall be reassessed if the qualifying condition is terminated.

## Section 8. Status of Nonresident Aliens; Visas and Immigration

1.
  - a. A person holding a permanent residency visa or classified as a political refugee shall establish domicile and residency in the same manner as another person.
  - b. Time spent in Kentucky and progress made in fulfilling the conditions of domicile and residency prior to obtaining permanent residency status shall be considered in establishing Kentucky domicile and residency.
2. A person holding a nonimmigrant visa with designation A, E, G, H-1, H-4 if accompanying a person with an H-1 visa, I, K, L, N, R, shall establish domicile and residency the same as another person.
3.
  - a. An independent person holding a nonimmigrant visa with designation B, C, D, F, H-2, H-3, H-4 if accompanying a person with an H-2 or H-3 visa, J, M, O, P, Q, S, TD, or TN shall not be classified as a Kentucky resident because that person does not have the capacity to remain in Kentucky indefinitely and therefore cannot form the requisite intent necessary to establish domicile as defined in Section 1(6) of this administrative regulation.
  - b. A dependent person holding a visa as described in paragraph (a) of this subsection, but who is a dependent of a parent holding

- a visa as described in subsection (2) of this section, shall be considered as holding the visa of the parent.
- c. A dependent person holding a visa described in subsection (2) of this section or paragraph (a) of this subsection, if a parent is a citizen of the United States and is a resident of and domiciled in Kentucky, shall be a resident of Kentucky for the purposes of this administrative regulation.
4. A person shall be a Kentucky resident for the purpose of this administrative regulation if the person graduated from a Kentucky high school and:
    - a. Is an undocumented alien;
    - b. Holds a visa listed in subsections (2) or (3)(a) of this section; or
    - c. Is a dependent of a person who holds a visa listed in subsections (2) or (3)(a) of this section.
  5.
    - a. Except as provided in paragraph (b) of this subsection, a person who has petitioned the federal government to reclassify visa status shall continue to be ineligible until the petition has been granted by the federal government.
    - b. A person who has petitioned the federal government to reclassify his or her visa status based on marriage to a Kentucky resident and who can demonstrate that the petition has been filed and acknowledged by the federal government, may establish Kentucky domicile and residency at that time.
- c.
    - i. Filing a Kentucky resident income tax return for the calendar year preceding the date of application for a change in residency status; or
    - ii. Payment of Kentucky withholding taxes while employed during the calendar year for which a change in classification is sought;
  - d. Full-time employment of at least one (1) year while living in Kentucky;
  - e. Attendance as a full-time, nonresident student at an out-of-state institution based on a determination by that school that the person is a resident of Kentucky;
  - f. Abandonment of a former domicile or residence and establishing domicile and residency in Kentucky with application to or attendance at an institution following and incidental to the change in domicile and residency;
  - g. Obtaining licensing or certification for a professional and occupational purpose in Kentucky;
  - h. Payment of real property taxes in Kentucky;
  - i. Ownership of real property in Kentucky, if the property was used by the student as a residence preceding the date of application for a determination of residency status;
  - j. Marriage of an independent student to a person who was domiciled in and a resident of Kentucky prior to the marriage; and
  - k. The extent to which a student is dependent on student financial aid in order to provide basic sustenance.

## Section 9. Beneficiaries of a Kentucky Educational Savings Plan Trust

A beneficiary of a Kentucky Educational Savings Plan Trust shall be granted residency status if the beneficiary meets the requirements of KRS 164A.330(6).

## Section 10. Criteria Used in a Determination of Residency Status

1.
  - a. A determination of Kentucky domicile and residency shall be based upon verifiable circumstances or actions.
  - b. A single fact shall not be paramount, and each situation shall be evaluated to identify those facts essential to the determination of domicile and residency.
  - c. A person shall not be determined to be a Kentucky resident by the performance of an act that is incidental to fulfilling an educational purpose or by an act performed as a matter of convenience.
  - d. Mere physical presence in Kentucky, including living with a relative or friend, shall not be sufficient evidence of domicile and residency.
  - e. A student or prospective student shall respond to all requests for information regarding domicile or residency requested by an institution.
2. The following facts, although not conclusive, shall have probative value in their entirety and shall be individually weighted, appropriate to the facts and circumstances in each determination of residency.
  - a. Acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining residence and domicile in Kentucky;
  - b. Continuous physical presence in Kentucky while in a nonstudent status for the twelve (12) months immediately preceding the start of the academic term for which a classification of Kentucky residency is sought;
3. Except as provided in subsection (4) of this section, the following facts, because of the ease and convenience in completing them, shall have limited probative value in a determination that a person is domiciled in and is a resident of Kentucky.
  - a. Kentucky automobile registration;
  - b. Kentucky driver's license;
  - c. Registration as a Kentucky voter;
  - d. Long-term lease of at least twelve (12) consecutive months of noncollegiate housing; and
  - e. Continued presence in Kentucky during academic breaks.
4. The absence of a fact contained in subsection (3) of this section shall have significant probative value in determining that a student is not domiciled in or is not a resident of Kentucky.

## Section 11. Effect of a Change in Circumstances on Residency Status

1. If a person becomes independent or if the residency status of a parent or parents of a dependent person changes, an institution shall reassess residency either upon a request by the student or a review initiated by the institution.
2. Upon transfer to a Kentucky institution, a student's residency status shall be assessed by the receiving institution.
3. A reconsideration of a determination of residency status for a dependent person shall be subject to the provisions for continuous enrollment, if applicable.

## Section 12. Student Responsibilities

1. A student shall report under the proper residency classification, which includes the following actions:
  - a. Raising a question concerning residency classification;
  - b. Making application for change of residency classification with the designated office or person at the institution; and

- c. Notifying the designated office or person at the institution immediately upon a change in residency.
2. If a student fails to notify an institutional official of a change in residency, an institutional official may investigate and evaluate the student's residency status.
3.
  - a. If a student fails to provide, by the date specified by the institution, information required by an institution in a determination of residency status, the student shall be notified by the institution that the review has been canceled and that a determination has been made.
  - b. Notification shall be made by registered mail, return receipt requested.
  - c. Notification shall be made within ten (10) calendar days after the deadline for receipt of materials has passed.
4.
  - a. The formal hearing conducted by an institution and the final recommended order shall be a final administrative action with no appeal to the Council on Postsecondary Education.
  - b. A formal administrative hearing conducted by the Council on Postsecondary Education for residency determinations related to eligibility for the Academic Common Market and Regional Contract Programs shall be conducted pursuant to the provisions of KRS Chapter 13B and 13 KAR 2:070. The recommended order issued by the President of the Council shall be a final administrative action.
5. A student shall not be entitled to appeal a determination of residency status if the determination made by an institution is because a student has failed to meet published deadlines for the submission of information as set forth in subsection (3) of this section. A student may request a review of a determination of residency status in a subsequent academic term.

### Section 13. Institutional Responsibilities

Each institution shall:

1. Provide for an administrative appeals process that includes a residency appeals officer to consider student appeals of an initial residency determination and which shall include a provision of fourteen (14) days for the student to appeal the residency appeals officer's determination;
2. Establish a residency review committee to consider appeals of residency determinations by the residency appeals officer. The residency review committee shall make a determination of student residency status and notify the student in writing within forty-five (45) days after receipt of the student appeal;
3. Establish a formal hearing process as described in Section 14 of this administrative regulation; and
4. Establish written policies and procedures for administering the responsibilities established in subsections (1), (2), and (3) of this section and that are:
  - a. Approved by the institution's governing board;
  - b. Made available to all students; and
  - c. Filed with the council.

### Section 14. Formal Institutional Hearing

1. A student who appeals a determination of residency by a residency review committee shall be granted a formal hearing by an institution if the request is made by a student in writing within fourteen (14)

calendar days after notification of a determination by a residency review committee.

2. If a request for a formal hearing is received, an institution shall appoint a hearing officer to conduct a formal hearing. The hearing officer shall:
  - a. Be a person not involved in determinations of residency at an institution except for formal hearings; and
  - b. Not be an employee in the same organizational unit as the residency appeals officer.
3. An institution shall have written procedures for the conduct of a formal hearing that have been adopted by the board of trustees or regents, as appropriate, and that provide for:
  - a. A hearing officer to make a recommendation on a residency appeal;
  - b. Guarantees of due process to a student that include:
    - i. The right of a student to be represented by legal counsel; and
    - ii. The right of a student to present information and to present testimony and information in support of a claim of Kentucky residency; and
  - c. A recommendation to be issued by the hearing officer.
4. An institution's formal hearing procedures shall be filed with the Council on Postsecondary Education and shall be available to a student requesting a formal hearing.

### Section 15. Cost of Formal Hearings

1. An institution shall pay the cost for all residency determinations including the cost of a formal hearing.
2. A student shall pay for the cost of all legal representation in support of the student's claim of residency.

Adopted effective April 5, 1991; Amended effective May 16, 1996; Amended effective June 16, 1997; Amended effective July 13, 1998; Amended effective June 7, 1999; Amended effective November 12, 2002; Amended effective April 2, 2010; Amended effective June 9, 2015.

## Residency Appeals Policy and Procedures

### 1. Basis for Residency Classification

The Commonwealth of Kentucky has established a process and corresponding criteria for the determination of residency classification for students seeking admission to, or enrolled in, public institutions of higher education. The Council on Postsecondary Education (hereinafter referred to as "CPE") has established Kentucky Administrative Regulation 13 KAR 2:045 (hereinafter referred to as "the Regulation") to be followed by all public institutions of higher education in the Commonwealth concerning residency classification. This Regulation can be found in the current Undergraduate Catalog and the current Graduate Catalog and copies are available upon request from the Office of Admissions, located in the Whitlock Building, Room 112 or by calling (859) 622-21-6 or 1-800-465-9191.

### 2. Institutional Administration of the Residency Policy

The Council on Postsecondary Education authorizes each institution to establish a procedure for the determination of residency classification based upon the Regulation.

## 2.1 Office of Admissions

The Office of Admissions  
Whitlock Building, Room 112, CPO 54  
521 Lancaster Avenue  
Richmond, KY 40475-3154

The Office of Admissions at Eastern Kentucky University serves as the coordinating office for institutional implementation of the Regulation. Instructions for filing applications for reclassification and copies of the Regulation are available in this office. Also, Admissions staff members are available to answer questions regarding policy and procedures.

## 2.2 Initial Classification

The initial determination of residency status is made by the University based upon the credentials submitted by an applicant for admission to the University in accordance with the Regulations.

## 2.3 Appeal of Residency Status

Once an initial classification of residency is made by the Office of Admissions, it is the student's responsibility to initiate an appeal of such classification. Request for reclassification must be filed with the Dean of Students Office **no later than thirty (30) calendar days** after the first full day of classes of the fall or spring academic term for which reclassification is sought or not later than ten (10) calendar days after the first day of class for the summer term. Requests for reclassification are to be made in affidavit form on the form available from the Office of Admissions or the Dean of Students Office. A student may apply only once during an academic term. A student classified as a non-resident will retain that status until a change is brought about by successful appeal. If an appeal results in a change of classification, the change will not be effective earlier than the semester during which the appeal is filed. If a student is initially classified non-resident but does not enroll the semester for which the student originally applied, the residency classification will be reassessed for subsequent semesters.

## 2.4 Affidavit (Application for Reclassification)

Affidavits will not be accepted unless the form is fully completed, properly signed and notarized. In no case will a decision be granted without an affidavit and all required supporting documentation.

## 2.5 Documentation

Because of the variety of factors related to establishing residency for tuition purposes, the number of documents required to complete an appeal may vary from case to case. In all cases, the University may require certification of authenticity of documents.

It is the appealing student's responsibility to provide sufficient documentation to clarify circumstances related to the appeal. In all cases, circumstances related to establishing domicile must be verifiable.

## 2.6 Review of the Residency File by the Residency Appeals Officer

A Residency Appeals Officer designated by the University shall review the affidavit and documentation and notify the student, in writing, within fourteen (14) days of making a determination. Students who do not agree with the Residency Appeals Officer's determination may appeal his/her residency status to the University's Residency Review Committee within fourteen (14) days of the Residency Appeals Officer's determination.

## 3. University Residency Review Committee

Pursuant to the Regulation, Eastern Kentucky University has a Residency Review Committee (hereinafter referred to as the "Committee") to review and evaluate student affidavits for reclassification and to consider changes in the residency classification.

### 3.1 Timely Appeal

The Student must notify the Residency Appeals Officer in writing, if he or she wishes his/her case to be reviewed by the Committee, within fourteen (14) calendar days after notification of the Residency Appeals Officer's determination. The Residency Appeals Officer shall immediately forward the request and the student's residency file to the Chair of the Committee.

### 3.2 Committee Membership

The Residency Review Committee shall be comprised of three members: the Executive Director for Enrollment Management; a member of the Faculty-at-Large, who shall be appointed annually by the Faculty Senate; and a member of the student body, who shall be appointed by the Office of the Vice President for Student Affairs from a list of students recommended by the Student Association.

### 3.3 Determination of the Committee

The Committee shall issue a written decision citing the section of the Regulation on which the decision is based. The Committee may vote to defer a case for additional documentation, or the Committee may make a decision contingent upon conditions prescribed by the Committee. The Chair of the Committee will then determine when and whether contingencies are met.

### 3.4 Notification of Decision

The Committee shall make a determination of student residency status and notify the student, in writing, within forty-five (45) days after receipt of the student appeal. Decisions denying appeals are communicated to the student by certified mail, return receipt requested. In all cases where the Committee reaches a determination granting in-state residency status, copies of the letter of notification will be sent to the Office of Admissions, Student Accounting Services, the Registrar's Office, and Student Financial Assistance.

## 4. Request for Formal Hearing

Pursuant to the Regulation, the University shall provide a formal hearing in the event a student wishes to appeal the determination of the Residency Review Committee.

### 4.1 Timely Request

A student who wishes to appeal the determination of the Committee shall be granted a formal hearing by the University if the student notifies the Executive Director for Enrollment Management, Whitlock Building, Room 436, CPO 69, Richmond, KY 40475-3163, in writing, within fourteen (14) calendar days after notification of the Residency Review Committee's determination. The Executive Director for Enrollment Management shall immediately forward the request and the student's residency file to the Office of the President.

### 4.2 The Hearing Officer

Upon receipt of a request for a formal hearing, the University President shall appoint a Hearing Officer to conduct the hearing. The Hearing Officer shall not be a person involved in determinations of residency at a

public institution of higher education in Kentucky (including the Kentucky Commonwealth Virtual University) and shall not be an employee of the same organizational unit as the Residency Appeals Officer.

### 4.3 Formal Hearing Procedures

The hearing shall be conducted in accordance with the following procedures:

#### 4.3.1. Notice of Hearing

**4.3.1.a.** The University shall conduct the hearing as soon as practicable and shall give notice of the hearing to the parties not less than twenty (20) days in advance of the date set for the hearing. A reasonable effort shall be made to schedule the hearing on a date that is convenient to all parties involved.

**4.3.1.b.** The hearing notice shall be served on all parties by certified mail, return receipt requested, to the last known addresses of the parties, or by personal service.

**4.3.1.c.** The notice shall be in plain language and shall include:

- the date, time and place of the hearing;
- the name, official title, and mailing addresses of the Hearing Officer;
- the names, official titles, mailing addresses, and, if available, telephone numbers of all parties involved in the hearing, including the counsel or representative of the University; and
- a statement advising the student of his/her right to legal counsel.

#### 4.3.2. Hearing Procedure

**4.3.2.a.** The Hearing Officer shall conduct the hearing and all related proceedings in a manner which will promote the orderly and prompt conduct of the hearing.

**4.3.2.b.** To the extent necessary for the full disclosure of all relevant facts and issues, the Hearing Officer shall give all parties the opportunity to respond, present evidence and argument, conduct cross-examination, and submit rebuttal evidence.

**4.3.2.c.** Any party to the hearing may participate in person or be represented by counsel. A student shall pay for the cost of all legal representation in support of the student's claim or residency. Legal counsel for the student must file a notice of appearance with the Hearing Officer prior to the date of the hearing.

**4.3.2.d.** The Hearing Officer may conduct all or part of the hearing by telephone, television, or other electronic means, if each party to the hearing has an opportunity to hear, and if technically feasible, to see the entire proceeding as it occurs, and if each party agrees.

**4.3.2.e.** The hearing shall be open to the public unless specifically closed pursuant to a provision of law. If the hearing is conducted by telephone, television, or other electronic means, and is not closed, public access shall be satisfied by giving the public an opportunity, at reasonable times, to hear or inspect the University's records.

### 4.4 Findings of Fact; Evidence; Recording of Hearing; Burden of Proof

**4.4.1.** Findings of fact shall be based exclusively on the evidence on the record.

**4.4.2.** All testimony shall be made under oath or affirmation.

**4.4.3.** Objections to evidence presented may be made by any party and shall be noted in the record.

**4.4.4.** The University shall be responsible for having all testimony, motions and objections in a hearing accurately and completely recorded. Any person, upon request, may receive a copy of the recording or a copy of the transcript, if the hearing has been transcribed, at the discretion of the University, unless the hearing is closed by law. The University may prepare a transcript of a hearing or a portion of a hearing upon request but the party making the request shall be responsible for the transcription costs. The form of all requests and fees charged shall be consistent with KRS 61.870 to 61.884.

**4.4.5.** Unless otherwise provided by state or federal law, the student appealing the residency decision has the burden of proving the student's right to having his/her residency status changed. The student has the ultimate burden of proof of persuasion as to this issue to be shown by a preponderance of evidence in the record. Failure to meet the burden of proof is grounds for a recommended order from the Hearing Officer.

### 4.5 Prohibited Communications

**4.5.1.** The Hearing Officer shall not communicate off the record with any party to the hearing or any other person who has a direct or indirect interest in the outcome of the hearing, concerning any substantive issue, while the hearing is pending.

### 4.6. Recommended Order

**4.6.1.** The Hearing Officer shall complete and submit to the University President, no later than sixty (60) days following receipt of the student's residency file, a written recommended order which shall include the Hearing Officer's findings of fact, conclusion of law, and recommended disposition of the hearing.

**4.6.2.** A copy of the Hearing Officer's recommended order shall also be sent to each party in the hearing. Each party shall have fifteen (15) days from the date the recommended order is mailed within which to file exceptions to the recommendations with the University President. The recommended order may be sent by regular mail to the last known address of the party.

### 4.7. Final Order

**4.7.1.** In making the final order, the University President shall consider the record including the recommended order and any exceptions filed by, or on behalf of, the student.

**4.7.2.** The University President may accept the recommended order of the Hearing Officer and adopt it as the University's final order, or he or she may reject or modify, in whole or in part, the recommended order, or he or she may send the matter, in whole or in part, back to the Hearing Officer for further proceedings as appropriate.

**4.7.3.** The final order shall be in writing. If the final order differs from the recommended order, it shall include separate statements of findings of fact and conclusions of law.

**4.7.4.** The University President shall render a final order within thirty (30) days after receipt of the recommended order unless the matter is sent back to the Hearing Officer for further proceedings.

**4.7.5.** A copy of the final order shall be transmitted to each party or to his/her attorney of record by certified mail, return receipt requested, sent to the last known address of the parties, or by personal service. A copy of the final order shall also be sent to the Office of Admissions, Student

Accounting Services, the Registrar's Office, and Student Financial Assistance.

## 5. Records

All official files and materials relating to a student's appeal of an initial residency determination shall be returned to the Office of Admissions to be placed with the application for admissions at whatever point in the process the appeals procedure is terminated.

## Student Services

- Division of Finance & Administration & Treasurer (p. 30)
- Additional Student Services (p. 32)

## Division of Finance & Administration & Treasurer

The Division of Finance and Administration coordinates the following areas of University operations:

1. Accounting and Financial Services,
2. Budgeting & Financial Planning,
3. Business Services,
4. ECU Center for the Arts,
5. Facilities Management,
6. Human Resources,
7. Information Technology Services,
8. Parking & Transportation,
9. University Police & Public Safety,
10. Environmental Health & Safety,
11. Purchases & Stores,
12. Sustainability,
13. Student Accounting Services, and
14. University Card Services.

Additionally, the following contractual departments report to the University through the Division of Finance and Administration:

1. ECU Dining Services,
2. ECU Bookstore, and
3. University pouring rights.

Students may view the mission statement of each of the above areas by visiting the Division of Finance and Administration web page at <http://www.financialaffairs.eku.edu>.

## Financial Obligations of the Student

Any student or former student who is indebted to the University and who fails to make satisfactory settlement within a time limit prescribed is liable for administrative action. Students who are indebted to the University may not register at the University nor will their transcript or diploma be released until the debt is paid. Any student indebted to the University who cannot meet his or her financial obligations within the time limit prescribed is responsible for calling on the division of Student Accounting Services and explaining the reasons for failure to pay. Students who fail to pay their account balance in a timely manner may

also be liable for additional collection costs incurred by the University in collecting the amount owed.

## Refund Policy

No refund can be made on certain class fees and optional fees as established by the Eastern Kentucky University Board of Regents. Students wishing to withdraw from courses must do so online via EKUDirect (on the ECU home page at [www.eku.edu](http://www.eku.edu) (<http://www.eku.edu>)). When a student officially withdraws from the University or from any course or courses for which hourly rates apply, tuition and fees will be adjusted in the following manner:

Time Period <sup>1</sup>	Refund
During add/drop period for any class (for full semester classes = 1st week)	100%
From end of 1st week through end of 2nd week of class	75%
From end of 2nd week through end of 3rd week of class	50%
From end of 3rd week through end of 4th week of class	25%
After the 4th week of class	0%

<sup>1</sup>

Partial semester courses vary in length and the percentage of refunds and the effective dates will be modified accordingly.

This policy applies to refundable fees only; non-refundable fees are not included. In no case shall a refund of rent be made to a person who remains a student but moves from University housing at his or her convenience.

## Financial Appeals

An appeals process exists for students who feel that individual circumstances warrant exceptions from published policy. Financial appeals may be submitted if a student had an unforeseeable and unavoidable situation during the semester the charges were incurred that prevented them from attending classes and completing the semester. All appeal letters should be submitted by the student in writing clearly stating the reason for the appeal.

Documentation should be attached to all appeal letters to validate the situation. Circumstances that do not qualify for financial appeal include pre-existing conditions, routine pregnancy, employment opportunities and financial hardship, including denial of financial aid. In most cases, any refund that is the result of an approved appeal will be returned to the source of the payment, the student, the financial aid lender, or a third party entity. Financial appeals should be submitted to the

Financial Appeals Committee  
Whitlock Building CPO 60  
521 Lancaster Avenue  
Richmond, KY 40475.

Any student whose appeal is denied by the initial Financial Appeals Committee may ask to have their appeal reviewed by a second, escalated Financial Appeals Committee.

## Barnes & Noble at ECU Bookstore

Powell Building

Phone: (859) 622-2696  
 Fax: (866) 504-8325  
[www.shopeku.com](http://www.shopeku.com) (<http://www.shopeku.com>)

Barnes & Noble is the University's partner in delivery of ECU BookSmart which provides free textbooks to all ECU undergraduate students. The Barnes & Noble at ECU Bookstore is located in the heart of campus on the Plaza Level of Powell Building (The Student Center). The Bookstore is the place for one-stop shopping for all ECU licensed merchandise, graduate textbooks, and much more. It offers a wide variety of products, services, and events including:

- Class supplies
- Trade books, gift items, greeting cards, diploma frames, nursing shop.
- Convenience items
- Adidas, Under Armour, Nike, Champion, Cutter & Buck, and much more.
- Computers and computer supplies
- Backpacks
- Barnes & Noble gift cards
- Book signings
- Graduation regalia
- Faculty receptions

The Barnes & Noble at ECU Bookstore works diligently with departments, faculty and staff to ensure that the course materials required for each class are readily available to students either through the BookSmart program for purchase by graduate students. Textbook adoptions are required from departments and faculty by these dates:

- March 1 For the upcoming **SUMMER** sessions
- April 1 For the upcoming **FALL** semester
- October 1 For the upcoming **SPRING** semester

Regular ECU Bookstore hours are:

Day	Hours
Monday-Thursday	7:45 a.m. - 6:00 p.m.
Friday	7:45 a.m. - 5:00 p.m.
Saturday	11:00 a.m. - 3:00 p.m.

## Card Services

Powell 08-E (Plaza Level)  
 Phone: (859) 622-2179  
 Fax: (859) 622-8089  
<https://cardservices.eku.edu/>

Card Services provides students with a variety of services related to their ECU student identification card, the Colonel Card. This identification card is used for meal plans, Colonel Cash, campus vending machines, and the ECU Bookstore. In addition, ECU has partnered with US Bank to add optional banking solutions.

Card Services is responsible for issuing a new or a replacement identification card and will assist with troubleshooting potential card issues experienced by students, faculty, and staff. Students, faculty, and

staff may purchase meal plans and add funds to their card accounts in the Card Services Office.

The Colonel Card will allow students access to the following:

- Athletic events
- University Library facilities
- Campus Recreation
- University sponsored events
- Student Health Services

The Colonel Card has three different associated accounts:

- Colonel Cash – This is a prepaid account that can be used at all ECU Dining Services locations, the ECU Bookstore, campus vending machines, and a select number of participating off-campus merchants. This account will carry balances over from semester-to-semester.
- Meal Plans – ECU Dining Services has several different meal plans to accommodate any student's needs. Meal plans can be used at any ECU Dining Services location. Students under the residential requirement must select a meal plan meeting the residential meal plan requirement

All other students enrolled in nine (9) or more credit hours are required to participate, at a minimum, in the \$300 Dining Dollar program (refundable). Meal plans may be upgraded any time during the semester and downgraded only within the first two (2) weeks of the semester.

- Optional Flex - This is a prepaid account that can be used at any ECU Dining Services location. Please check with ECU Dining Services regarding terms and conditions associated with this account.

Students may purchase meal plans by logging into MyEKU or add funds to their accounts by logging into *EKU GET Funds*. Acceptable methods of payment for meal plans, Optional Flex, or Colonel Cash accounts are Visa and MasterCard. Meal plans, when selected on MyEKU, will be assessed to the student account.

Card Services follows the University holiday schedule and is open daily during the University's normal business hours:

Monday through Friday 8:00 a.m. – 4:30 p.m.

The Colonel Card is property of Eastern Kentucky University and is issued for convenience. It must be presented (or surrendered) upon request by authorized officials of the University. Any expenditure associated with the use of this card is the responsibility of the holder until it is reported lost/stolen. A fee will be charged for damage made to the identification card or if the card is lost or stolen. The loss of a card must be reported immediately to Card Services, Powell 08-E, (859) 622-2179.

### EKU Dining Services

Case Dining Hall, 101  
 Phone: (859) 622-3691  
 Fax: (859) 622-6226  
[www.ekudining.com](http://www.ekudining.com) (<http://www.ekudining.com>)

EKU Dining Services offers a variety of dining alternatives including fresh food options, an assortment of national-brand restaurants, catering, and athletic concessions. It is the goal of ECU Dining Services to provide

high quality and satisfying dining experiences for the entire campus community.

Case Kitchen and Stratton Café offer freshly cooked dining options in a comforting atmosphere. Lower Case Food Court offers Chick-fil-A, Moe's Southwest Grill, Panda Express, P.O.D. (Provisions on Demand) Express, and Subway.

In other areas of campus, ECU Dining Services boasts a variety of dining options including Java City in the Crabbe Library; Einstein Bros. Bagels in the Weaver Building offering gourmet coffees, bakery items, as well as grab & go salads and sandwiches; as well as Starbucks and The Corner, offering Zen Sushi and the Colonel's Grill, located in the Powell Student Center.

ECU Dining Services provides full-service catering and a dedicated catering staff for both on- and off-campus events. A special Student Catering Guide is available to accommodate the dynamic requests and requirements of students.

## Additional Student Services

### The International Alumni Association

Alumni Center at Blanton House

Phone: (859) 622-1260

Fax: (859) 622-6620

[www.alumni.eku.edu](http://www.alumni.eku.edu) (<http://www.alumni.eku.edu>)

The Eastern Kentucky University International Alumni Association serves as a link between the University and its alumni by maintaining records, fostering communication, and sponsoring programs and activities designed to enhance this relationship.

All Eastern Kentucky University degree recipients and former students with 25 or more credit hours are considered alumni of ECU. The International Alumni Association is served by a board of 30 alumni volunteers, representing the diversity of our alumni constituency, who meet three times annually. Their work includes selection of the Alumni Awards, Alumni Scholarship recipients and general committee work.

The Alumni Association coordinates multiple gatherings across the nation to encourage alumni and friends of ECU to come together. The greatest of these is Homecoming and Reunion Weekend held annually in the fall. This celebration brings alumni back to campus to reconnect with their classmates and learn more about University improvements and initiatives.

The International Alumni Association encourages fellow alumni to advocate in a positive way for ECU both online and among friends, attend ECU sponsored events, give back to the university financially, and volunteer your time by serving on an advisory board, referring a student, or assisting with an event. We encourage alumni from the past to complete these four fundamental actions to impact the future.

### Colonel's Cupboard

212 Commonwealth Hall

Phone: (859) 622-3855

Email: [food.pantry@eku.edu](mailto:food.pantry@eku.edu)

[www.communityservice.eku.edu/cupboard](http://www.communityservice.eku.edu/cupboard) ([http://](http://www.communityservice.eku.edu/cupboard/)

[www.communityservice.eku.edu/cupboard/](http://www.communityservice.eku.edu/cupboard/))

### Who We Are

The Colonel's Cupboard is an initiative of the Office of Student Life & First-Year Experience, opened in 2014. The Cupboard was started to fight the growing problem of food insecurity on campuses across the nation. Today, we strive to help students succeed by providing them with their basic needs of food, clothing, and toiletry items. We are entirely run off of donations from ECU students, faculty, and staff, as well as community members. All enrolled students at the university are eligible to use the Cupboard.

### What We Do

- Provide food, clothing, and toiletry items to any currently enrolled student who has a need.
- Connect students with other resources, on and off campus, to help with other needs.
- Provide educational materials about food insecurity, healthy eating, etc.
- Host volunteers, both groups and individuals, who want to give back on campus.
- Donate overstocked goods to other local food pantries in need.

### How it Works

- Complete the form at [communityservice.eku.edu/cupboard](http://communityservice.eku.edu/cupboard) (<http://www.communityservice.eku.edu/cupboard/>) or email [food.pantry@eku.edu](mailto:food.pantry@eku.edu) to make an appointment.
- Stop by the Colonel's Cupboard in Commonwealth Hall during open hours to "Shop" for your needs, or pick up a prepackaged food box at one of our partner locations

### ECU Police

ECU Police Department and 911 Center

701 Vickers Drive

Phone: (859) 622-1111

Fax: (859) 622-947

[www.police.eku.edu](http://www.police.eku.edu) (<http://www.police.eku.edu>)

The ECU Police Department is a fully accredited law enforcement agency available 24-hours a day, 7 days a week. For emergencies from a campus phone, dial 911, or (859) 622-1919 from any phone. For non-emergencies please call (859) 622-1111. We recommend you program these numbers into your phone as favorites. You should call ECU Police to report all crimes and for any matters requiring a police, fire, medical, or hazardous materials response.

The mission of the Eastern Kentucky University Police Department is to enhance the quality of life by providing a safe and secure environment through professional service to the community. The success of our mission depends on this partnership utilizing a community policing philosophy. The Department places a high priority on honesty and integrity and values the need for effective and open communication with the community we serve. We value our employees and are committed to their professional development.

ECU Police provide 24-hour patrols of the ECU campus, including buildings, parking lots, residence halls, and grounds. ECU Police officers have county-wide law enforcement authority, although primary jurisdiction encompasses all University property and all roads and streets adjacent to the campus. The ECU Police also have the authority to investigate crimes committed on University property located anywhere in the state.

The EKU Police Department includes 24 sworn police officers and seven dispatchers. EKU Police maintain high visibility on campus with motor vehicles, bicycles, and foot patrol. The EKU Police Department maintains a Daily Crime & Fire Log available to the public at <https://crimelog.eku.edu/>. Crimes occurring on EKU properties and fires occurring in student housing are listed here in an ongoing effort to help you make informed decisions regarding your safety and security.

The Eastern Kentucky University Police Department has an excellent working relationship with state, local, and federal law enforcement agencies, and other emergency providers. Visit the Department web page at <https://police.eku.edu/> to find links to the Daily Crime Log, the Annual Security and Fire Safety Report, Crime Prevention tips, and much more. You can also connect with EKU Police on Twitter, Facebook, and Instagram.

## Parking & Transportation Services

Commonwealth Hall, Room 212

Phone: (859) 622-7275

[www.parking.eku.edu](http://www.parking.eku.edu)

Eastern Kentucky University Parking & Transportation Services provides parking and transportation services in support of the University's mission, by providing quality customer service and proper management of parking and transportation resources. This mission is accomplished by enforcing applicable parking rules and regulations, providing safe and efficient transportation services, conveying a positive attitude, and requiring the highest standards of personal and professional conduct.

Parking Services provides parking information, registers vehicles for the campus community and visitors, coordinates parking for special events and enforces parking rules and regulations. Transportation Services provides day and evening transit services and motor pool/fleet services.

See the Parking and Transportation website ([www.parking.eku.edu](http://www.parking.eku.edu) (<https://www.parking.eku.edu>)) for additional parking and transportation information including parking regulations, transit schedules, and hours of operation.

### Student Automobiles

In order to facilitate parking for all students, faculty, and staff, Eastern Kentucky University requires the registration of all motor vehicles utilizing campus parking facilities. Vehicle registration information can be obtained by contacting Parking Services at (859) 622-7275 or by visiting <https://eku.nupark.com/portal> (<https://eku.nupark.com/portal/>). During the registration period, prior to the first day of classes, students registering for classes may park in any legal, non-reserved parking space in all areas, except employee parking lots (Zone E) which are marked by yellow signs.

After the commencement of classes, residential hall lots (Zone R), which are marked by blue signs, are restricted to residence hall permits 24-hours per day, seven days a week. Grand Campus Lot, which is marked by purple signs, is restricted to Grand Campus permits 24-hours per day, seven days a week. Enforcement of employee and commuter parking (Zone C) regulations begins at 2:00 a.m. Monday-Friday. Commuter permits are also valid from 4:30 p.m. to 7:00 p.m. in employee (Zone E) parking lots. The Jones Lot is an exception to this rule and is reserved for employees only until 9:00 p.m. Evening parking for unregistered vehicles without permits is available in the Alumni Coliseum Lot from 4:30 p.m. to 2:00 a.m., Monday through Friday, and all-day Saturday and Sunday. Visitors may register for temporary parking by visiting [\[eku.nupark.com/portal\]\(https://eku.nupark.com/portal\) \(<https://eku.nupark.com/portal/>\). Visitors are permitted to park in the Alumni Coliseum Lot with a valid visitor permit.](https://</a></p>
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## Speech-Language-Hearing Clinic

Wallace Building 245

Phone: (859) 622-4444

[www.slhclinic.eku.edu](http://www.slhclinic.eku.edu) (<http://www.slhclinic.eku.edu>)

The Communication Sciences and Disorders Department offers free therapy services to students, faculty, staff, and members of the community at the Speech-Language-Hearing Clinic in Wallace 245.

Diagnostic and clinical treatment services provided by the Clinic include the following:

1. Screening for speech, language, swallowing, and hearing problems.
2. Assessment and treatment of articulation disorders, phonological delays, delayed or disordered language, stuttering, voice disorders including laryngectomy, swallowing, speech and language problems resulting from stroke or head injury, language disorders related to learning disability, and speech and language problems of individuals in areas of exceptionality such as mental handicap, developmental delay, cerebral palsy, cleft palate, hearing impairment, autism spectrum disorder, and emotional/behavioral disorder.
3. Accent modification for speakers of English as a second language and those desiring Standard English skills.

Anyone interested in the above services should contact the Clinic Office Associate at (859) 622-4444, Wallace 245, or visit the Clinic website: [www.slhclinic.eku.edu](http://www.slhclinic.eku.edu) (<http://www.slhclinic.eku.edu>)

## Student Publications

Eastern Kentucky University provides a variety of laboratory experiences through student publications. The Eastern Progress Media Network has been established to provide professional involvement in the activities of The Eastern Progress, the University's student online and print publication. Academic and support units coordinate the institutional support of student publications but do not govern the content. The courts have consistently held that where a tradition of student decision making exists in student publications, those publications are afforded the same Constitutional First Amendment protection as other publications. Concomitant with those rights, go certain responsibilities, which also accrue to the student publications. Accordingly, the responsibility for the content of the publications is that of the student editors and writers and not Eastern Kentucky University or its Board of Regents.

The **Eastern Progress Media Network** is a learning lab for students interested in media, marketing and public relations. The EPMN produces a newspaper and online multimedia content and is the official student publication of the University. All students are encouraged to take advantage of the journalism and advertising training it offers. Since its establishment in 1922, The Progress has been rated as an All American Newspaper by Associated Collegiate Press and a Medalist paper by Columbia Scholastic Press Association. The Progress and its student journalists have won many state and national awards, including countless Kentucky Press Association honors, national Pacemakers and Gold Crown awards. In January 2019, student journalists at the Eastern Progress Media Network and other state campus publications were recognized as KPA's Most Valuable Member. Reach the Progress online at [www.easternprogress.com](http://www.easternprogress.com) (<http://www.easternprogress.com>).

**Aurora** is a magazine of student writings published by its student staff to encourage interest in literary activity. Aurora accepts poems, one-act plays, short stories, prose sketches, and essays from any Eastern student. Editions are published in the fall (online by the ENG 420 Stylistics, Editing, Publishing class) and spring (hard copy). Cash prizes are awarded for the best works (fiction and poetry) at the time of the spring publication.

## Technology and Related Resources

IT Service Desk, Keen Johnson Basement  
Phone: (859) 622-3000  
Website: [it.eku.edu](http://it.eku.edu) (<http://it.eku.edu>)

Password & Accounts are sent by mail or communicated through the Slate portal to all students when admitted to EKU.

- Students receive a nine-digit EKU ID number which is your unique ID for all official records. This ID starts with "900" or "901".
- Each student also receives an EKU username. The username is based on your first name\_last name (e.g., John Smith = john\_smith12). Your username and password provide secure access to Wi-Fi, campus computers, and other electronic resources. Your single sign-on (SSO) for services like myEKU and Blackboard and email is YourUsername@mymail.eku.edu.
- Reset your password at the website <https://it.eku.edu/password> (<https://it.eku.edu/password/>)
- Reset your two-factor authentication (2FA) settings at the website [it.eku.edu/2FA](https://it.eku.edu/2FA)
- myMail (student email account) is provided through Microsoft. Students may retain their EKU email address upon graduation from EKU: [it.eku.edu/mymail](https://it.eku.edu/mymail) (<https://it.eku.edu/mymail/>)
- Microsoft Office 365 is free for all registered students and is available to download through their official myMail account. <https://it.eku.edu/support/office-365-education> (<https://it.eku.edu/support/office-365-education/>)
- Google Workspace (formerly G Suite) and Office 365 for Education are available to all employees and students while employed or while a current student. <https://it.eku.edu/collaboration> (<https://it.eku.edu/collaboration/>)

IT Geeks are EKU students' first point of contact for all service issues, questions, troubleshooting and consultation. Call 859-622-GEEK (4335) or email [geeks@eku.edu](mailto:geeks@eku.edu). The IT Geeks also offer electronic equipment checkouts (laptops, calculators, cameras, etc.). The Geek Innovation Center is free for EKU students and includes a makerspace, podcast room, VR, gaming, video lab, and Colonel Oasis wellness space. Visit the website [geeks.eku.edu](http://geeks.eku.edu)

Computer Labs are located in the Crabbe Library Atrium (Room 207) and in other locations across campus. For a list of all computer labs, visit the website [it.eku.edu/computer-labs-eku-campus](https://it.eku.edu/computer-labs-eku-campus) (<https://it.eku.edu/computer-labs-eku-campus/>)

The IT Website offers more than 300+ support articles about EKU technology. The IT Search is keyword specific. Visit [it.eku.edu](http://it.eku.edu) to view the support articles and find out more about IT at EKU.

Login to EKU The EKU homepage has a menu for easy login access to myEKU, Blackboard, Student Email, and Degree Works.

myEKU (formerly EKU Direct) provides access to a wide range of data for students from admission through graduation. Students register for

classes, obtain parking permits, check grades and more with myEKU. Log in to myEKU at [my.eku.edu](https://my.eku.edu). (<https://my.eku.edu>)

Blackboard is EKU's course management system. Students are automatically enrolled in Blackboard upon registration. Course sites do not appear for students until the instructor opens them. Blackboard is used for all online courses and many on-campus courses. Learn more at [it.eku.edu/blackboard](http://it.eku.edu/blackboard), and log in at [learn.eku.edu](http://learn.eku.edu).

Degree Works helps students plan an academic roadmap to graduation. Degree Works, along with your advisor, will ensure you are on the right track to graduate. View Degree Works information at [registrar.eku.edu/DegreeWorks/](http://registrar.eku.edu/DegreeWorks/)

ResNet is the EKU residential network and provides high-speed wired and wireless internet access in all residence halls. Wired connections are recommended for devices that support that option. To connect to the campus wireless (Wi-Fi) network, visit [it.eku.edu/getconnected](https://it.eku.edu/getconnected/) (<https://it.eku.edu/getconnected/>). To connect wireless devices that do not support network login, visit [it.eku.edu/byod](https://it.eku.edu/byod). (Note: Students should connect to eku\_secure5GHz instead of the guest Wi-Fi network. For connection support articles, visit [it.eku.edu/support/wireless-network](https://it.eku.edu/support/wireless-network) (<https://it.eku.edu/support/wireless-network/>.) To view all articles related to wireless at [it.eku.edu](http://it.eku.edu), type "wireless" into the IT website search bar.

Peer-to-peer software is not permitted on the EKU network. Downloading copyrighted materials is illegal and prohibited.

Acceptable Use of Information Technology Resources: [it.eku.edu/codeofethics/](https://it.eku.edu/codeofethics/) (<https://it.eku.edu/codeofethics/>)

Phishing and Spam: IT @ EKU will NEVER request passwords or other personal information via email. Messages requesting such information are fraudulent. Forward all suspicious messages to [spam@eku.edu](mailto:spam@eku.edu). In the unlikely event the message is legitimate, we will tell you.

## Emergency Management & Security

**Adams House**  
424 Lancaster Ave  
Division of Public Safety  
Phone: (859) 622-1111  
<http://emergency.eku.edu/>

### Emergency Notifications:

Rave Mobile Safety is EKU's primary mass notification system. The University has implemented a multi-modal emergency notification system to inform the community about incidents and emergencies affecting campus. Realizing that message redundancy is a necessity, EKU has seven primary notification methods available for the community. Any one, or a combination, of these alert methods may be used depending on the nature and severity of the event. More information about Situational Awareness, Emergency Notifications, and Timely Warnings can be found at the following web page: <https://emergency.eku.edu/situational-awareness-%E2%80%93-emergency-notifications-and-timely-warnings> (<https://emergency.eku.edu/situational-awareness-%E2%80%93-emergency-notifications-and-timely-warnings/>)

Systems Include:

- Sirens - Audible sirens can be broadcast over four loudspeakers strategically placed on campus. This system can be activated by the EKU Division of Public Safety as well as the Madison County

Emergency Management Agency for weather and community emergency notifications.

- Text Messaging - An opt-out notification where a text message can be received on your mobile phone. EKU and Rave do not charge for this service; however, your carrier may have standard text messaging charges. (Note: Students should periodically check their mobile phone numbers when their numbers change and make corrections as necessary.)
- Voice Messaging - An opt-out notification where a voice message can be received on your mobile or home phone. (Note: Students should periodically check their mobile phone numbers when their numbers change and make corrections as necessary.)
- Email Messaging - This notification provides an email message about an event. Current students, faculty, and staff are automatically registered to receive notifications on their EKU email account and cannot opt-out of this type of notification. You can opt-in to receive emails on other email accounts. Community members are encouraged to check their email frequently throughout the day to be sure they see any message sent by this alert method.
- RSS Feeds - A message can be posted on the Emergency Management, Police Department, or University web pages.
- Network Messaging - A visual notification can be made across computers connected to the EKU network. When an alert is sent out, a pop-up box appears on your screen. No personal information is gathered or transmitted with the use of this alerting system.
- Social Media - EKU can use Twitter and Facebook to send notifications to the community. These social systems require the user to check to receive any messages posted. Follow @EKUEmergency on Twitter and like EKU Emergency Management on Facebook.

Review your contact information in Rave Mobile Safety

#### **Rave Mobile Safety:**

Current Students, Faculty, and Staff are Already Registered:

- Log on to MyEKU
- <https://experience.elluciancloud.com/eku/>
- Use your Single Sign On (SSO) authentication.
- Under the EKU Links Card, click on the Rave Emergency Notifications link.
- Under My Account you can check and edit your Mobile Phones, your Voice Only Line Contacts, and your Email. Click the Add Buttons to add additional Mobile Phones, Voice Only Line Contacts, and Emails.
- If you are affiliated with certain groups, like Model Lab School or the EKU Regional Campuses, you can join them to receive notifications that they send out.
- Click the Groups tab, select the desired group(s) from the Official Groups list by clicking Action, and selecting Join at the Group Status.
- You can leave any group by selecting the group(s) and at the Group Status and clicking Leave.
- Email messages are automatically sent to all current EKU email addresses. You cannot opt-out of receiving messages on your EKU email account.
- Texts and voice calls are also automatically entered into the system and you can opt-out of these notifications if you desire. Please give careful consideration to opting-out, however, because once you opt-out, you will no longer receive important emergency information intended to help you to stay safe. (Note: Students should check their

mobile phone numbers at the beginning of every semester and make changes as their circumstances change.)

- EKU and Rave do not charge for text service; however, your carrier may have standard text messaging charges.

Other Community Members:

- While current EKU employees, and registered EKU students, are automatically enrolled in Rave Mobile Safety – Emergency Notifications. Other community members and visitors may SMS (Text) to opt-in. Be informed. Text "EKUAlerts" to 67283 (MRAVE), 226787 (CAMPUS), 78015, or 77295.
- Once registered, you can opt out of text messages at any time. Texting "STOP" to any of the short codes will cancel alert messages. Texting "START" to any of the short codes will resume/reinstate the alert messages. STOP and START are not case sensitive.
- Rave does not charge subscribers to send or receive text messages. Standard or other messaging charges may apply depending upon your wireless carrier plan and subscription details.
- Text messages are sent on an as-needed basis. This service is provided per the Terms of Use and Privacy Policy which can be found at the following web pages:
- <https://www.getrave.com/help/Terms.action> (<https://www.getrave.com/help/Terms.action/>)
- <https://www.getrave.com/help/Privacy.action> (<https://www.getrave.com/help/Privacy.action/>)

Living Safely at EKU

Life can be unpredictable. The Division of Facilities Management & Safety asks that all our community members download the EKU S.A.F.E. App.

For maximum utility, you must turn on location services for this app so that your location can be checked and sent to Public Safety, or to one of your Contacts. Privacy is your concern, and you decide whether to enable your location services. Enabling this feature, on your mobile phone, for this app, helps people get to you when you need assistance.

The free personal safety app is available for download on both the Apple and Android platforms at

Apple: <https://apps.apple.com/us/app/s-a-f-e-safety-app-for-eku/id1550124036> (<https://apps.apple.com/us/app/s-a-f-e-safety-app-for-eku/id1550124036/>) and

Android: <https://play.google.com/store/apps/details?id=com.cutcom.apparmor.eku> (<http://catalogs.eku.edu>)

Apple: <https://apps.apple.com/us/app/s-a-f-e-safety-app-for-eku/id1550124036/>)

The app puts various safety services at the fingertips of users:

- Push Notifications – Allows users to receive emergency notifications and timely warnings sent from Public Safety, via EKU Alerts, using our email alert method. (Note: Community members, who are not EKU employees or EKU students, can SMS to Opt-In for emergency notifications sent from Public Safety, using our text alert method. Be informed. Text "EKUAlerts" to 67283 (MRAVE), 226787 (CAMPUS), 78015, or 77295.)
- EKU News Feed – Displays recent tweets from @eku.
- Emergency HELP – Contains buttons to Call 911 if you are off the EKU Richmond Campus, Call EKU Police if you are on the Richmond Campus, chat with EKU Police via text for the deaf or hard of hearing or when it is not safe for you to speak. Emergency Call checks your physical location and determines that if you are inside the campus

geofence, your call goes to EKU Police, and if you are outside the campus geofence, your call goes to 911 for help.

- Safety Escort/Friend Walk – Has options to contact the EKU Police, to request a safety escort on the Richmond Campus, or allows you to send your location in real-time to a friend, so they can watch you as you travel to your destination.
- Mobile BlueLight ALARM – Contains a button that simultaneously sends your location to EKU Police and makes a phone call to EKU Police. EKU Police can receive your location in real-time on their Dashboard and they can speak with you on the phone.
- WorkAlone – Allows you to start a session with either a personal contact, anywhere, or with Public Safety if you are on the Richmond Campus. This feature will automatically check in on you while working or studying alone and can automatically trigger a call to your personal contact or Public Safety if you fail to check-in at the allotted time, or if you press the emergency button.
- Report a Tip – Allows you to report tips on a variety of topics and gives you an option of attaching a photo or video. The tips are automatically routed to the appropriate office(s).
- Health & Safety Toolbox – Has options to contact the EKU Police, the Counselling Center, Student Health Services, and Center for Student Accessibility.
- Campus Maps – Provides access to a Parking Map, Enhanced Shelter In Place Buildings, and Evacuation Assembly Areas.
- Emergency Plans – Contains the University's planned response to emergency situations. This is the content of the University Emergency Action Plan and provides important information about what you can do to protect yourself if an emergency does occur.
- Support Resources – Has options to contact University Housing, Facilities Management, Libraries, and Student Affairs.
- Manage Profile – Under the About/Preferences button, users can manage their profile and add information to help emergency responders. This information is only available to and used by the EKU Division of Public Safety for emergency purposes. It allows individuals to volunteer information to help us keep you safe. Items the user can volunteer include Allergies, Medications, On-Campus Primary Address/Location, Secondary or Additional Addresses/ Locations (for individuals whose work or studies take them to multiple locations on campus), Permanent Address, Additional Phone Numbers, Emergency Contact Name and Phone Number. The more information volunteered, the more effectively we can find you and help you should the need arise.

We are proud of our strong partnership with the Student Government Association as we collaborate to provide safety resources, such as this app, that benefits our entire campus community. Colonels care for one another and this app provides a platform for our community to look out for one another by reporting issues, communicating directly with the EKU Police Department, providing tips, watching friends virtually walk, and other safety items.

## Office of Student Success and Student Affairs

**Dr. Tanlee Wasson**

Vice President of Student Success, Student Affairs and Institutional Effectiveness  
Powell Building 110  
(859) 622-8947

[www.studentaffairs.eku.edu](http://www.studentaffairs.eku.edu) (<http://www.studentaffairs.eku.edu>)

**The Office of Student Success and Student Affairs is dedicated to providing quality services, leadership experiences, and learning opportunities designed to help students achieve their goals while enhancing personal development and well-being. To ensure that students gain the most from their college experience, Student Success offers a wealth of academic support resources, student services and social enrichment opportunities to foster exploration, discovery, growth and achievement. By fully engaging in all aspects of your education, you'll receive an immeasurable return on your investment of time and dedication throughout your life.**

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- Center for Student Accessibility (p. 39)
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## Office of Admissions

Whitlock 112  
(859) 622-2106

The Office of Admissions is responsible for recruitment and admission of qualified undergraduate students to EKU. This office is also responsible for the processing of applications for new as well as readmitted, transfer, and international students. Students who have questions regarding their residency status may address their inquiry to the Office of Admissions ([admissions@eku.edu](mailto:admissions@eku.edu)).

## Orientation

Orientation is phase one of the first year experience for new students. During Orientation, students and families visit campus, meet with faculty, staff, and students, and learn more about life at Eastern Kentucky University. Students also register for their first semester of classes. Representatives from many areas are available during Orientation to answer questions about financial aid, tuition payment, housing, dining services, and tutoring services. There are various dates and schedules for first year, transfer and high achiever students.

## Bratzke Student-Athlete Academic Success Center

Ms. Monika Banbel, Director  
 Alumni Coliseum 103  
 (859) 622-1359  
[www.saasc.eku.edu](http://www.saasc.eku.edu) (<http://www.saasc.eku.edu>)

The Bratzke Student-Athlete Academic Success Center provides an academic support program and a multifaceted academic resource for all student-athletes competing on NCAA varsity teams on EKU's campus. The Center provides opportunities and services to enhance the student-athlete's academic performance, as well as monitoring progress to ensure all student-athletes meet their academic eligibility requirements as determined by the NCAA, OVC, and EKU.

Bratzke Center programs include academic advising, academic monitoring, mentoring, supervised studying, tutoring, and personal counseling, as well as referrals to other academic support programs on campus. Each student athlete's academic progress is monitored closely, throughout their EKU enrollment to facilitate graduating with the highest grade point average possible, while maintaining NCAA eligibility throughout their collegiate athletic career.

The Bratzke Center also sponsors a Life Skills program designed to promote student-athlete growth in five commitment areas: academics, athletics, personal development, service, and career development. Throughout the year the Center plans and coordinates outreach activities for student-athletes in support of the local community and Eastern Kentucky.

## Office of Advising and Career Services

Matt Schumacher, Senior Director  
 Whitlock Building 468  
 (859) 622-1296

The Office assists students in achieving their academic and career-related goals, from navigating their first year of college and choosing an inspiring major/career to pursuing experiential learning and preparing to target a variety of job opportunities. Services include academic advising, career counseling, co-op/internship search and assistance, job search preparation, employer events and a Part-Time Job Program.

### Major and Career Exploration

Academic and Career Advisors at the Office help students identify and explore their major and career of choice. A variety of assessments allow students to articulate their interests, skills, personality characteristics and work related values, generating a list of major/career options to be explored in terms of reliable and factual information with the guidance of office staff. Through extensive one-on-one counseling sessions, the advisors help students make sense of the information gathered, to reach a meaningful decision and pursue it with a realistic action plan.

### Academic Advising

Academic advising is a dialogue between student and advisor to promote responsible and appropriate choices and facilitate a successful academic experience. All undergraduate students are assigned an academic advisor through the Office of Advising and Career Services. Designated

departmental faculty and college staff serve as advisors to students with declared majors. Academic and Career Advisors in the Office of Advising and Career Services serve as advisors for Exploratory, visiting, non-degree seeking, and those students not meeting KY academic readiness standards and assigned to the Associate of General Studies (AGS) program.

The Office of Advising and Career Services collaborates with students, faculty, and staff across campus to develop a meaningful academic plan tailored to a student's needs and goals. The Office serves students, faculty, and staff by:

- Providing year-round academic advising and student support to each EKU student.
- Providing advising tools and referring students to appropriate departments and campus resources.
- Providing customized academic planning and advising to Associate of General Studies (AGS) and Exploratory students.
- Assisting with probation recovery for students.
- Coordinating probation recovery workshops with representative college advisors.
- Conducting mid-term recovery workshops for new, first-time students.
- Assisting students with the declaration and/or change of major process.
- Assisting student in clarifying educational, career, and life goals.
- Coordinating advising resources for the Summer Orientation Program in conjunction with the Office of Admissions and the Office of the University Registrar.

### Co-op and Applied Learning (Internships)

Internships and Co-op provide students with an opportunity to connect what they learn in the classroom to career-related practice. Students gain on-the-job training in business, industry, and/or government. Acceptance of a co-op/internship position for academic credit is contingent upon a suitable learning objective approved by both the employer and the appropriate university official.

Eligibility:

- Faculty Coordinator approval
- Completion of a minimum of 30 credit hours prior to enrolling (specific departments may require more credit hours); transfer students required to complete at least one semester at EKU.
- Minimum of 2.0 grade point average (GPA); some departments require a higher GPA.
- Salary (when applicable) must be within State and Federal wage guidelines.
- Compliance with the Experiential Learning Guidelines defined by the Office of Advising & Career Services and applied by the departments.

Academic Credit:

- Determined by the academic college or department
- May earn .5 to 8 hours credit per semester
- Minimum of 80 hours of employment for each semester hour of academic credit, including .5 half credit (students must work to the end of the semester). Co-op is 16 weeks for spring and fall semesters and 12 weeks for summer term. For internships, students must work a minimum of 8 weeks over the summer semester/terms and 12 during the academic semester. Experiences lasting less than a full

semester should be discussed with the Office of Academic & Career Services and the Faculty Coordinator and only when extenuating circumstances apply.

- Maximum of eight Summer semester hours and twelve Fall/Spring semester hours toward meeting requirements for the associate degree and sixteen hours toward the bachelor's degree.
- Credit is awarded for co-op/internship only when the student is enrolled in the University and in compliance with the Experiential Learning Guidelines from the Office of Academic & Career Services.
- Students who are not able to complete their experience in one semester will receive a grade of IP and be allowed one calendar year to successfully complete all requirements. Students who do not successfully complete a co-op/intern experience within the one calendar year maximum timeframe will receive a grade of "F" or "U" depending upon the grade mode.
- Students cannot use past experiences for credit. Only work completed **during** the semester that the student is registered can be counted for credit. Please consult the Timesheet for the semester you intend to co-op/intern for clarification of weeks accepted for counted hours.

#### Work Requirements:

- Students must be in an environment where they are completing worthwhile, hands-on, industry related tasks while being supervised and mentored by an industry professional who can aid in their professional development.
- A supervisor assigned by the employer to provide direction and coordination on the job; also responsible for submitting a final evaluation report on the student
- Grades assigned by the Faculty Coordinator in accordance with criteria established by the Office of Academic & Career Services and the student's academic college/department.

#### Program Options:

##### Internship

A paid or un-paid experience that meets all of the eligibility requirements of a for-credit experience that can be completed over one or multiple semesters.

##### Co-op

A paid, multi-term (semester) experience that meets all eligibility requirements of a for-credit experience that follows one of the following plans:

- Parallel plan: students work part-time for multiple semesters (three or more semesters) while maintaining a full-time course load.
- Alternating plan: students employed full-time, alternating classroom training with work-based training for a period of two or more semesters, following the employer's schedule. Students may also work full-time during the summer semester (twelve weeks) but must also work in their co-op position during the fall and/or spring semesters.
- Special plans: developed to meet the needs of the student and employer.
- Students participating in the Internship Program must meet the eligibility requirements of the Co-op Program, but may choose to work only one semester in either a paid or non-paid assignment or in any

assignment that does not meet the Co-op multiple term or length requirements.

## Part-Time Job Program

The Part-Time Job Program supports students in finding and obtaining part-time, temporary, and summer employment with local and regional businesses. Students who participate in the program gain experience in the workforce while networking in the community. The Part-time Job Program is open to all currently enrolled EKU students.

## Job Search Preparation

The Office helps students target job opportunities by offering workshops, face-to-face and online appointments on resume writing, cover letter critiques, job search strategies, networking and social media. Through the mock interview program, students can practice and improve their interviewing skills with personalized assistance and feedback. The Dress for Success Closet provides business attire at no cost to EKU students seeking internships or employment in a workplace that requires professional clothing.

## Connecting with Employers

The Office staff assists students in identifying and connecting with potential employers through job/career fairs, on-campus interviews, individual appointments, online tools, and other resources. The Office's database, Handshake, is an easy to use system that gives students and alumni access to jobs postings and employers targeting EKU students. It is easily accessible through the Office's homepage at [oacs.eku.edu](http://oacs.eku.edu) (<http://oacs.eku.edu>).

## Students on Learning Contracts

In addition to advising bachelor-degree-seeking Exploratory students, the Office of Advising and Career Services advises all students admitted as undeclared, associate-level (AGS) students under the Success First standard. Students admitted in this category are required by state statute to sign a Student Learning Agreement (Contract) before registering for their first classes. (See admission standards in this catalog).

The statute defines the contract as a student success document signed by the student and a school representative after a personal consultation. This contract sets forth the following:

1. Advising, mentoring, tutoring and support services expectations for both the student and the institution,
2. Student learning goals and expectations,
3. Student participation requirements in a financial literacy program,
4. The process by which student progress will be monitored, and
5. The specified length of the learning contract.

Once a student has completed the requirements specified in the Student Learning Agreement he/she may petition to declare a major, at which time the student will return to bachelor degree seeking status and be assigned an academic advisor in the chosen college. While in the Student Learning Agreement students may not change their class selections without permission of the Office. The advisor may lock a student's ability to change their individual class schedules if necessary, in order to keep the student on track and moving toward degree completion.

For more information visit the Office of Advising and Career Services website at [oacs.eku.edu](http://oacs.eku.edu) (<http://oacs.eku.edu>) or call 622-1296.

## Center for Student Accessibility

Dr. Kelly Cogar, Senior Director  
Whitlock Building 361, CPO 66  
Phone: (859) 622-2933  
[www.accessibility.eku.edu](http://www.accessibility.eku.edu) (<http://www.accessibility.eku.edu>)

The Center for Student Accessibility (CSA) assists students by coordinating campus and program accessibility as well as providing support in the attainment of educational goals. CSA is located in the Whitlock Building, Room 361. Appointments are made by calling (859) 622-2933 or by email at [accessibility@eku.edu](mailto:accessibility@eku.edu).

Students requesting services, including deaf and hard of hearing students, are required to submit a completed application for services and current health-related documentation. Applications, documentation guidelines, and additional information is available at the CSA website. Services are individualized and may include academic adjustments that do not impede the academic integrity of the course, digital books, equipment loans, interpreters, note-taking software, testing accommodations and other services.

### ADA/504 Coordinator

The ADA/504 Coordinator serves the University by hearing individual ADA cases including appeals for course substitutions, waivers and other accessibility-related cases and as a member of the ADA Appeals Committee. Appointments with the ADA/504 Coordinator are made by contacting Dr. John Dixon, [John.Dixon@eku.edu](mailto:John.Dixon@eku.edu)

## Campus Recreation

Matt Roan, Vice President for Athletics and Recreation  
Fitness and Wellness Center, SRC 105  
Phone: (859) 622-6751  
Fax: (859) 622-6754  
[www.campusrec.eku.edu](http://www.campusrec.eku.edu) (<http://www.campusrec.eku.edu>)

The Department of Campus Recreation provides a variety of facilities and recreational opportunities to the university community. The department promotes wellness for students, faculty, and staff by encouraging the development of lifelong skills and positive attitudes through health promotion, fitness programs, adventure programs, and competitive sports.

Campus Recreation oversees the operation of the Fitness & Wellness Center. The Fitness and Wellness Center includes:

- Full line of weight and fitness equipment
- Locker Rooms
- Climbing Wall
- Full Swing Golf Simulator
- Group Exercise Room
- Multipurpose gymnasiums
- Indoor Track
- Bouldering Wall

Coming in Fall 2019, the brand new state-of-the-art recreation center will include (in addition to the list above):

- An aquatic center
- Sauna

- Outdoor activity space
- 2 additional courts
- 2 additional group fitness studios

## Fitness Program

The Fitness Program offers a variety of group fitness classes each week and are taught by trained, motivated and friendly instructors. All fitness levels are welcome. Examples of group fitness classes are yoga, pilates, cycling, Zumba, and much more. For those who need a more personal touch, we offer very affordable personal training by certified personal trainers. Personal training is a great way to attain one-on-one instruction incorporating exercise plans, goal-setting and health education.

## Adventure Programs

Adventure Programs offers a wide variety of trips and workshops each semester. Previous trips have included: hiking and camping, backpacking, kayaking/canoeing, spelunking, white water rafting, climbing, canyoneering. The climbing and bouldering walls are an exciting and engaging alternative to traditional exercise. In addition, Adventure Programs provides an extensive amount of outdoor equipment so you may embark on your own adventures. Examples of outdoor rental equipment are tents, mountain bikes, kayaks, cook stoves, canoes and much more.

## Competitive Sports

Competitive Sports have been a campus tradition at EKU for over 50 years. Students play with their friends or organizations and compete against fellow Eastern students. Examples of activities offered are flag-football, soccer, volleyball, corn hole, dodge ball, golf, basketball, and much, much more. There are also numerous individual and dual events. For the more competitive athlete, we also supervise student lead Sport Clubs. Clubs compete on a regional and national level against other universities and colleges.

## Health Promotion

Health Promotion is a peer education program geared towards empowering students with knowledge and facts concerning health issues. Health Promotion presents information on alcohol, obesity, sex, drug abuse, eating disorders, tobacco, and much more. The aim is not to enforce ideas but to assist students in making better informed decisions by providing students with the proper tools, knowledge, and self-worth.

## Employment

EKU Campus Recreation is one of the largest student employers on campus. We have a variety of opportunities to join our dedicated and friendly staff! All open positions will be posted on [jobs.eku.edu](https://jobs.eku.edu) (<https://jobs.eku.edu>). Here are some entry level positions we employ, and most have opportunities for advancement:

- Facility Attendant
- Group Exercise Instructor
- Marketing Assistant
- Intramural Referee
- Health Promotion Peer Educator
- Climbing Wall Attendant
- Personal Trainer

- Graphic Designer
- Lifeguard

## Center for Student Parents

(formerly Education Pays Center)

Ms. Robyn Moreland, Director  
(859) 622-6684  
www.studentparents.eku.edu (<http://www.studentparents.eku.edu>)  
Available on the Richmond and Corbin Campus

The Center for Student Parents is a place to feel supported, accepted and prepared for life as a parenting college student. Through guidance, academic support, advising, workshops, referrals and employment opportunities; student parents can graduate and meet educational and personal goals. Funded by the Cabinet for Health and Family Services, the Center for Student Parents has supported EKU's student parent population for over 20 years. Contact us to learn more about the support offered, such as:

- Private computer and Study Lab
- Family Friendly Study Space
- Lactation Room
- Work Study - only available to those receiving Kentucky Transitional Assistance (KTAP) - ask about how you qualify.
- Academic Support Services
- Personal and Professional Support
- Resource Linkage

## Community Service

The Community Service program coordinates a variety of service opportunities throughout the year that EKU students, faculty, and staff can participate in both on and off campus. Whether it's to fulfill a class requirement or just to get involved, students looking for volunteer opportunities can visit to get connected with local volunteer opportunities that meet their individual needs and fit their busy schedules.

There are five main ways you can engage with the Community Service program at EKU:

- Volunteer with Saturdays for Service: Since 2004, EKU students been partnering with local entities for service opportunities. Each event is a one time commitment, working with a different community partners, either in Richmond or nearby in our service region. Saturdays for Service occur on the first Saturday of each month. Transportation is provided.
- Commit to a Community Partner: Our office has a variety of community partners within driving distance of campus. By signing up through OrgSync a student can commit to volunteering one time or regularly, by themselves or with a group of friends. This is a great way to fulfill volunteer requirements for class, connect with the community, learn about yourself, or gain experience for after college. Opportunities vary and are continuous, so a time can be found that works with each person's schedule. You can learn about these many opportunities through our Part Time Job & Volunteer Fair hosted during Welcome Week.
- Immerse and Serve on an Alternative Break: Alternative break trips are offered year round (fall, winter, spring, summer, and even weekends). Each trip has a focus on a particular social issue, such as

(but not limited to) disaster relief, poverty, education reform, hunger, and environmental stewardship. Students learn about the social issues and then perform week-long projects with local non-profit organizations.

- Join in on a Day of Service: Day of service events include onetime events throughout the academic year. Major Days of Service include 9/11 Day of Service and Remembrance & Martin Luther King Jr. Day. Throughout the year these days of service include both on and off campus on time opportunities to serve and support our community.

Students interested in taking a more action in service have the opportunity to take up student leadership positions including joining some of our service-focused RSOs and the Service Council. For more information visit: [www.communityservice.eku.edu](http://www.communityservice.eku.edu) (<http://www.communityservice.eku.edu>) or [www.facebook.com/EKUcommunityservice](http://www.facebook.com/EKUcommunityservice) (<http://www.facebook.com/EKUcommunityservice/>).

## Counseling Center

Dr. Melissa Bartsch, Director  
Whitlock Building 571  
Phone: (859) 622-1303  
Fax: (859) 622-1305  
<https://counselingcenter.eku.edu/>

The University Counseling Center offers services designed to promote the success of students in achieving their academic, social and personal goals. The Counseling Center staff consists of licensed clinicians who provide counseling both individually and in groups. Referral is provided when the need for counseling services is beyond the role and scope of the Counseling Center. Counseling relationships are considered confidential as delineated by the American Psychological Association (APA) Code of Ethics and, to the extent permitted by law, federal and Kentucky state laws.

## Counseling Services

Counseling is viewed as another form of learning while in college. Typical college student concerns that may result in counseling are: adjustment to college, interpersonal conflicts, dealing with loss, test anxiety, time management, stress, academic pressures, anxiety, depression, motivation, substance abuse, traumatic experiences, eating concerns and choice of a major.

## Rapid-Access Services

The EKU Counseling Center offers many services that are available on a drop-in basis, including: workshops, biofeedback, guided meditation, and drop-in groups. Be sure to check out our website: [counselingcenter.eku.edu](http://counselingcenter.eku.edu) (<http://counselingcenter.eku.edu>) for the semester schedule of services.

## QPR Suicide Prevention Training

The EKU Counseling Center offers training in suicide prevention and only takes an hour! Participants learn: warning signs that someone might be considering suicide, how to have a caring conversation with someone about whom they are concerned, how to persuade that person to get help, and where to refer them for that assistance. Everyone can be a partner in suicide prevention.

## Services for Faculty and Staff

The Counseling Center staff also provides consultation to the University community on referral and how to be most helpful to the distressed student. When a faculty member wishes to refer a student for immediate help, it is recommended that the faculty member call and speak with a staff member for consultation to discuss the appropriate action.

## Dean of Students

Dr. Lara Vance, Dean  
Whitlock Building 538  
Phone: (859) 622-2402  
Fax: (859) 622-3047  
[www.dos.eku.edu](http://www.dos.eku.edu) (<http://www.dos.eku.edu>)

The Dean of Students office promotes student success and development across all offices and serves as the primary contact point for students. The Dean collaborates with various departments, stays up-to-date on available student resources, and responds to student crisis.

## EKU Housing and Residence Life

Bob Brown, Executive Director  
Whitlock Building 552  
Phone: (859) 622-1515  
Fax: (859) 622-8384  
[www.housing.eku.edu](http://www.housing.eku.edu) (<http://www.housing.eku.edu>)

EKU Housing & Residence Life fosters the development, engagement, and success of our residential community by providing an inclusive home that enhances the collegiate experience. Campus living offers opportunities that will help you excel academically, develop leadership skills and connect with life-long friends. You will meet students from all walks of life gathered together as part of a vibrant, close-knit community.

We offer Living Learning Communities (LLCs), which consist of students with similar majors and interests who live on the same floor/floors of a residence hall. Live and learn with others who share your goals, career interests and life passions!

All single, full-time undergraduate students under the age of 21 prior to the first day of classes, having fewer than 60 credit hours, or having lived in a residence hall less than four academic semesters (fall/spring) are required to live in University residence hall facilities. Exception is made for students residing with their parent(s) at their parent's principle residence within 50 miles of the Richmond campus. Students living with parents must submit a verification form which is available through the housing office or at [www.housing.eku.edu](http://www.housing.eku.edu) (<http://www.housing.eku.edu>). Students may request exemption to the residency requirement under specific circumstances to the Executive Director.

Each residence hall is equipped with the following services that come as part of the basic room rental rate:

### Cable Television

All major network and major cable stations are offered with any cable-ready television at no cost.

### Laundry Rooms

Several washers and dryers are located in every residence hall. All laundry machines are **free** for on campus residents.

## ResNet

All rooms come equipped with high-speed internet connections. Wireless network access is also available. For more information about equipping your computer for Internet access, visit [www.resnet.eku.edu](http://www.resnet.eku.edu) (<http://www.resnet.eku.edu>).

## Study Rooms

In most residence halls, are open, quiet rooms in which to study.

## Vending

All residence halls are serviced with a variety of drink and snack vending machines. The machines are coin operated, and many accept credit card processing as well.

Social, educational, and service-learning programs are offered and organized by University Housing staff in all of our residence halls. These programs range from movie nights on the residence hall floors to volunteering for Habitat for Humanity. Most often, the RAs on each floor host social programming so that the residents can get to know each other and enjoy their housing experience even more. Many of the University Housing programs are open to all campus residents.

EKU Housing & Residence Life has traditional residence halls, enhanced traditional halls, suite style halls, and apartment style halls.

### Features include:

- Large recreation rooms
- Indoor gas fireplaces
- Study rooms
- Computer labs
- Kitchen and laundry areas
- Indoor / Outdoor programming space
- Large and small classrooms space
- Leadership opportunities

Visit [housing.eku.edu](https://housing.eku.edu) (<https://housing.eku.edu>) for rates, floor plans and more details.

## Office of Financial Aid

Whitlock Building 251  
Phone: (859) 622-2361  
Fax: (859) 622-2019  
[www.finaid.eku.edu](http://www.finaid.eku.edu) (<http://www.finaid.eku.edu>)

Financial assistance is available to help students offset the cost of their college education. There are five types of financial aid: grants, loans, employment, entitlements, and scholarships. The grants, loans, and federal work study programs are need-based. To determine how much money and for which programs the student qualifies, he/she must complete the Free Application for Federal Student Aid each year.

Entitlements include but are not limited to resources from the Veterans Administration and Vocational Rehabilitation. Scholarships are awarded from the University as well as outside sources. For information regarding entitlements, students should contact the Division of Student Financial Assistance at (859) 622-2361. This office can guide the student to the proper source depending on the type of entitlement or scholarship the student is interested in pursuing.

For scholarship information, students should contact the Scholarship Office in the Whitlock Building, Room 346 (859) 622-8032.

## Vocational Rehabilitation (OVR)

EKU supports the efforts of OVR to serve eligible individuals with disabilities. The Kentucky Office of Vocational Rehabilitation provides vocational rehabilitation services to eligible individuals with disabilities. Individuals receiving OVR services may also contact the EKU Center For Student Accessibility for academic accommodation. For more information about eligibility criteria call the Office of Vocational Rehabilitation toll free at 1-800-372-7172 or (502) 564-7172, or visit the website at <https://kcc.ky.gov/>.

## Grants

Grants are considered gift aid and do not usually have to be repaid.

The **Federal Pell Grant** is the largest grant program. The maximum award is \$5,920 for 2021-22.

The **Federal Supplemental Educational Opportunity Grant (SEOG)** is awarded to students who demonstrate exceptional need, and priority is given to Federal Pell Grant recipients. The average Federal SEOG award at Eastern Kentucky University is generally \$550 for the academic year.

The **College Access Program Grant (CAP)** is awarded to eligible Kentucky residents. The amount of this grant is determined by the Kentucky Higher Education Assistance Authority (KHEAA). It is given to students enrolled for a minimum of six hours. Full-time students will receive up to \$950 per semester, \$1,900 for the 2021-22 academic year.

## Scholarships

Eastern Kentucky University offers a range of academic scholarships designed to reward scholastic achievement and enhance the university community through the attraction of academically talented students.

Unless noted otherwise in the specific description, each of these scholarships is awarded for eight consecutive regular semesters of full-time undergraduate work to students earning their first undergraduate Bachelor degree, provided a satisfactory grade point average is maintained.

In addition to the general scholarship program described below, the University also awards a number of scholarships funded through private funds administered in the Eastern Kentucky University Foundation. Students need to complete the scholarship application form to be considered for all foundation scholarships the University awards ([www.scholarships.eku.edu](http://www.scholarships.eku.edu) (<http://www.scholarships.eku.edu>)).

Some discipline specific scholarships are awarded based on selection processes within the appropriate academic department. If the department housing the major indicated on the application form awards such scholarships, you will receive information from that department.

In addition to completing the scholarship application, it is also necessary to apply for admission to the university and for financial aid. All necessary forms are available through the Office of Admissions. If you have a question, or need admission forms, please call 1-800-465-9191, or send an email to [admissions@eku.edu](mailto:admissions@eku.edu). Scholarship applications are available online at [www.scholarships.eku.edu](http://www.scholarships.eku.edu) (<http://www.scholarships.eku.edu>).

Except for the book award to participants in the Honors Program, the university does not make multiple awards of the described scholarships. Recipients will receive the highest award for which they apply, are eligible and selected.

The following information is applicable to freshmen enrolling at Eastern Kentucky University for the first-time in the Fall semester, 2017.

**Transfer Scholarship:** Students need to apply for admission to be considered automatically for merit scholarships. To be considered for the fall semester, students must apply for admission by June 15th. To be considered for the spring semester, students must apply for admission by November 15th. To be considered for the summer semester, students must apply for admission by April 15th. The transfer scholarship qualifications and requirements for this scholarship can be found at [www.scholarships.eku.edu](http://www.scholarships.eku.edu) (<http://www.scholarships.eku.edu>).

## Awards

Four-year awards can vary up to \$52,000. Merit scholarships are awarded automatically upon admission to EKU. Applicants must be admitted prior to February 1st to receive priority for scholarships. We will continue to award after February 1st until funds are exhausted. The last date for scholarship upgrades is March 1st. There are no upgrades after that date. Students that are in a 100% online degree program are not eligible for merit scholarships. Requires maintenance of a certain grade point average to retain, dependent upon the amount of the award and student must be enrolled in a minimum of 12 credit hours each semester. If a student does not return for a semester, then the scholarship is considered forfeited and cannot be reinstated.

To determine your eligibility, please refer to our scholarship calculator at [www.scholarships.eku.edu/estimator](http://www.scholarships.eku.edu/estimator) (<http://www.scholarships.eku.edu/estimator/>). Students should input their unweighted high school GPA and their ACT SAT scores. Many academic departments offer scholarships. Check with the department of your intended major or program to learn more about these options. Private donors, corporations and a wide range of organizations also have endowed scholarships. Discover more at [www.scholarships.eku.edu](http://www.scholarships.eku.edu) (<http://www.scholarships.eku.edu>).

Number of Awards: Limited

**J.W. Thurman Alumni Scholarship:** Applicants must be a dependent child of an EKU graduate. Applicants must score at least an 18 composite on the ACT exam and have a minimum high school grade point average of 3.0. Applicants may use the University's foundation scholarship form and check the block indicating the application is for the J. W. Thurman Alumni Scholarship, and mail the application to the EKU Scholarship Office.

**Alumni Fund Scholarship:** Applicants must be incoming freshmen with an ACT score of at least an 18 and a high school GPA of 3.0. Students that demonstrate financial need to the University through the FAFSA application shall be given priority. Applicants must be involved in at least three extracurricular activities.

**Honors Program Award:** Students who are accepted into the University Honors Program will receive books-on-loan for up to eight consecutive semesters, provided they remain in the Honors Program.

**Dr. Rodney Gross Scholarship:** The Dr. Rodney Gross Diversity Scholarship provides financial assistance to high-achieving students from all segments of society: Alaskan, Native, Asian, Native Hawaiian or other Pacific Islander, Hispanic, or Latino. Applications may be obtained

by contacting the Scholarship Office by phone (859) 622-8032 or via the web at [www.scholarships.eku.edu](http://www.scholarships.eku.edu) (<http://www.scholarships.eku.edu>).

**EKU Retention Scholarship** (Contingent on outside funding): Students completing their freshman year with a 2.0 grade point average or better and returning for the following fall term may apply for the competitive Retention Scholarship. If applicants have been enrolled in developmental courses they must have earned at least a grade of a “C” or better and be degree seeking students. This non-renewable scholarship provides up to \$1000.00 for an academic year toward tuition and fees. Applications may be obtained by contacting the Scholarship office by phone (859) 622-8032 or via the web at [www.scholarships.eku.edu](http://www.scholarships.eku.edu) (<http://www.scholarships.eku.edu>).

## Student Loans

The **Federal Perkins Loan** is a 5 percent simple interest loan awarded to exceptionally needy students. This loan is made to undergraduates, as well as post-baccalaureate and graduate students. Repayment begins nine months after the student ceases to be enrolled on at least a half time basis. There are certain occupations which allow a student to cancel a percentage of the money they borrow from this program. Contact the Loan Accounts Office in the Whitlock Building, Room 216, for more information regarding the cancellation and deferment options. All first time Federal Perkins Loan borrowers must be enrolled for thirty (30) days before their first Perkins disbursement can be released.

The **Federal Direct Subsidized Loan Program** is a need based program available to students who are enrolled at least half time. This loan is for undergraduate, and post-baccalaureate students. The interest rate is fixed and is not to exceed 8.25%. Contact the Office of Student Financial Assistance after July 1 for the current year interest rate.

The Federal Government pays the interest while the student is enrolled at least half time. A student has six months after ceasing to be enrolled as a half time student before repayment begins.

All first time Federal Direct Loan borrowers (subsidized as well as unsubsidized) must complete entrance counseling before their loan can be processed. Counseling can be completed at [www.studentloans.gov](http://www.studentloans.gov) (<http://www.studentloans.gov>).

The **Federal Direct Unsubsidized Loan Program** is not based on need. It has a different interest rate as the Federal Direct Subsidized Loan Program, and the student is responsible for paying the interest on this loan. The unsubsidized and the subsidized loan cannot exceed the maximum amount allowable by a student’s classification. For example:

First Year Students - \$5,500 is the annual loan limit. No more than \$3,500 of this amount may be in subsidized loans. All first time Federal Direct Loan borrowers must be enrolled for thirty (30) days before the first disbursement can be released.

Second Year Students - \$6,500 is the annual loan limit a student can borrow. No more than \$4,500 of this amount may be in subsidized loans.

**Note:** This is the maximum amount (\$6,500) that a student working on an Associate Degree is eligible to receive.

Third and Fourth Year Students - \$7,500 is the annual loan limit. No more than \$5,500 of this amount may be in subsidized loans.

Graduate Students - \$20,500 is the annual loan limit. No more than \$8,500 of this amount can be in subsidized loans.

Independent students may be eligible for an **additional unsubsidized funds**. An independent student could borrow up to an additional:

- Freshman/sophomore - \$4,000
- Junior/senior - \$5,000

Keep in mind that the unsubsidized and subsidized Direct Loans combined cannot exceed the student’s cost of education minus all other student financial assistance.

**Each annual loan limit is for one award year (12 month period; i.e., fall, spring, and summer).**

To apply for a Federal Direct Subsidized or Unsubsidized Loan, all students must complete a Free Application for Federal Student Aid. After the student is evaluated for all federal programs, his/her eligibility for the Direct Loan program is determined. The Office of Student Financial Assistance will certify the loan and electronically submit the information to the U.S. Department of Education (DOE). If the student has a signed Master Promissory Note (MPN) on file at DOE, the loan funds will be sent to Eastern Kentucky University on the specified disbursement dates. If the student does not have a signed MPN on file at DOE, a MPN must be signed electronically at [www.studentloans.gov](http://www.studentloans.gov) (<http://www.studentloans.gov>).

Post-Baccalaureate Students—Students returning to work on a second undergraduate degree are not automatically eligible for the senior annual loan limit of \$7,500. Each student must submit documentation which indicates how many hours that student has toward the second degree.

The **Federal Direct Plus Loan** program enables parents to borrow the cost of education minus other aid for their student who is enrolled for at least 6 hours. This is not a need based loan. As long as the parent who is applying for the loan is credit worthy, the loan is usually approved. The interest rate is fixed and not to exceed 9%. Interest begins to accrue 60 days after the loan is fully disbursed. The parent must complete the PLUS application process at [www.studentloans.gov](http://www.studentloans.gov) (<http://www.studentloans.gov>) each year. If the parent has a signed Master Promissory Note (MPN) on file at DOE, the loan funds will be sent to ECU on the specified disbursement dates. If the parent does not have a signed MPN on file at DOE, an MPN must be signed electronically at [www.studentloans.gov](http://www.studentloans.gov) (<http://www.studentloans.gov>).

The **Student Aid Society** (Emergency Loan) program is designed to provide emergency short-term loans to students. It must be repaid. Students may borrow a small amount of money on a personal note at a legal rate of interest for a one month period. Money is made available through contributions of the University, alumni, private organizations and many individual friends of the University.

You must be enrolled as a full-time student, have a 2.0 (“C”) overall grade point average, a means of repayment, and must not have a past due balance. All students are eligible to apply for these short-term loans regardless if they are receiving other forms of financial aid. An application form obtained from the Loan Accounts Office in the Whitlock Building, Room 210 must be completed.

The loan must usually be repaid within four weeks, and the student is charged an interest rate of 2 percent. Students who have delinquent loans will have their grades sealed in the Registrar and will not be allowed to register for the next semester. Delinquent loans will be collected through a collection agency. Any additional expenses incurred in the collection of the note will be added to the student’s repayment.

## Student Employment

Eastern Kentucky University offers its students two employment programs. One is the federal work study program which provides part-time jobs to students who have financial need as determined by the Application for Federal Student Aid. This program is federally funded. The other is the EKU institutional work program. Eastern Kentucky University provides funds to employ students who want to work on-campus, but do not qualify for the federal work study.

Both of these programs employ students on a part-time basis, and students are paid every two weeks for the hours they have worked. Their job schedule is built around their class schedule. A variety of jobs are available including typing, filing, farm work, food service, resident hall assistants, tutorial work, as well as community service jobs. Contact Human Resources for more information at the Jones Building, Room 203, between 8:00 a.m. – 4:30 p.m.(M-F) or by phone at 859-622-5094, Option.

## First-Year Courses and Learning Communities

Ms. Starr Wentzel, Director  
Whitlock Building 455  
Phone: (859) 622-7322  
[www.firstyearcourses.eku.edu](http://www.firstyearcourses.eku.edu) (<http://www.firstyearcourses.eku.edu>)

The Office of First-Year Courses & Learning Communities administers Student Success Seminars for all first-year students. Student Success Seminars include content about campus resources, study skills, critical thinking, and diversity, helping students find ways to get connected to the university during the transition to college. Eastern Kentucky University offers several variations of the seminar, depending upon a student's major or special interests.

Our courses teach the structure and functions of the university.

Our instructors teach learning strategies backed by science. Our students participate in a variety of out-of-class experiences and co-curricular learning opportunities. These opportunities include seminars and events on topics such as financial literacy, student health, and cultural awareness.

Students in GSD 101 Foundations of Learning complete a Major and Career Series (MaC) developed by the Office of Academic and Career Services. The MaC Series helps students evaluate potential major and career paths through interviews, market data research, and personality assessments.

Student Success Seminars teach students to think critically, solve problems, and take advantage of the resources and opportunities EKU has to offer. As such, our courses are often the first step many Colonel's take on their paths to success

Every student seeking an Associate of Arts Degree in General Studies or a baccalaureate degree must complete a (1) or (3) credit hour Student Success Seminar<sup>1</sup>.

- Full time students must complete the Student Success Seminar during their first semester.
- Part time students must complete the Student Success Seminar within their first (18) credit hours but are strongly encouraged to complete the requirement during their first semester.

- Students who earn a grade of "W," "F," or "FN" in a Student Success Seminar must repeat the course the following term.

<sup>1</sup>

Transfer students who have 30 or more transfer credits upon admission to EKU may have this requirement waived. Non-collegiate transfer credit, including military transfer credit, does not count toward waiving this requirement. Some majors require all students to take a Student Success Seminar, regardless of transfer status. Student Success Seminars will not be waived for AP and Dual Credit hours.

Eastern Kentucky University offers several variations of the seminar for some student populations or majors.

- Students who enter the University with a declared major enroll in a (1) credit hour seminar in their college (ASO, BTO, EDO, HSO, JSO, SCO, or HON 100 Engaging in Honors).
- Exploratory students (students who have not declared a major in a college) will enroll in a (3) credit hour seminar, GSD 101 Foundations of Learning, which incorporates a unit on major and career exploration, in addition to critical thinking and success strategies.
- Sections of GSD 101 Foundations of Learning are also offered for special populations, such as NOVA, student athletes, and veterans, as enrollment allows.
- Sections of GSD 101 Foundations of Learning are also offered for special student populations as paired Learning Communities in English (ENG 101 Reading, Writing, and Rhetoric), Psychology (PSY 200 Introduction to Psychology), and Communications (CMS 100 Introduction to Human Communication). Eligible students are pre-enrolled in Learning Communities on an as-available basis.

In a Learning Community, students take two classes with the same group of students and have opportunities to interact with instructors, classmates, and peer mentors outside of class.

- Students who are admitted into the university on a Learning Contract will be paired in a Learning Community with ENG 101R Reading, Writing, and Rhetoric, ENG 101 Reading, Writing, and Rhetoric or CMS 100 Introduction to Human Communication. Students are pre-enrolled in these Learning Communities with their GSD 101 Foundations of Learning course contributing to the fulfillment of their Learning Contract.

## Office of International Student and Scholar Services

Mr. Wenceslaus P'Oryem, Director  
Whitlock Building 455  
Phone: (859) 622-1478  
Fax: 859-622-1552  
[international@eku.edu](mailto:international@eku.edu)  
[www.international.eku.edu](http://www.international.eku.edu) (<http://www.international.eku.edu>)

The Office of International Student and Scholar Services (OISSS) provides services, programs and resources to assist international students and visitors with their transition to campus and to life in the United States.

Eastern Kentucky University has more than 250 international students studying at both the undergraduate and graduate levels. These students represent approximately 45 nations.

OISSS supports international students and works with campus partners in providing educational, social and cultural programs which promote cross-cultural understanding and contribute to campus internationalization.

The office also has a dedicated staff who works directly with sponsored students studying at EKU through various governmental programs or scholarships. Finally, the office provides immigration visa advising to our international population and also serves to keep the university in compliance with federal immigration regulations.

## Meditation Chapel

[www.studentaffairs.eku.edu/chapel/](http://www.studentaffairs.eku.edu/chapel/) (<http://www.studentaffairs.eku.edu/chapel/>)

The Chapel of Meditation is the realization of a dream begun in 1968 when the Eastern Kentucky University Alumni Association adopted the Century Fund Project to finance a non-denominational chapel. The chapel stands as a testimonial of the love and devotion of the alumni, faculty, students and friends, commemorating the 100th anniversary of higher education on the Eastern Kentucky University campus.

The chapel is non-sectarian and is open to students, faculty, staff, alumni, and friends of the University for meditation, prayer, and spiritual reflection.

Besides providing a peaceful and serene setting for prayer and meditation, the chapel is used to house various student organization meetings and services, weddings, and annual memorial services.

## Office of Military and Veterans Affairs

Ms. Barbara Kent, Director  
Powell Student Center 137  
Phone: (859) 622-2345  
Fax: (859) 622-5076  
[www.va.eku.edu](http://www.va.eku.edu) (<http://www.va.eku.edu>)

The Office of Military and Veterans Affairs serves veterans and military students by assisting with admissions, obtaining VA benefits and credit for military training, and serving as an advocate for veterans' issues throughout the campus community.

To utilize VA education benefits and to obtain a Certificate of Eligibility, eligible veterans and military students will need to apply directly to the Veterans Administration online at [www.vets.gov](http://www.vets.gov) (<http://www.vets.gov>). Upon receipt of the certificate, please bring, mail, or fax (859-622-5076) a copy to the Office of Military and Veterans Affairs located at Powell Student Center, Room 137. Additionally, a Course Enrollment Form must be submitted online each semester for which benefits will be used, at [www.va.eku.edu/course](http://www.va.eku.edu/course) (<http://www.va.eku.edu/course/>).

Covered individuals (defined by the VA as any individual who is entitled to educational assistance under Chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post-9/11 GI Bill® benefits) may attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a Certificate of Eligibility (COE) for entitlement to educational assistance under chapter 31 or 33 (A "Statement of Benefits" obtained from the Department of Veterans Affairs' VA) website – eBenefits, or a VA Form

28-1905 form for chapter 31 authorization purposes can substitute for a COE) and ending on the earlier of the following dates:

1. The date on which payment from VA is made to the institution.
2. 90 days after the date the institution certified tuition and fees following the receipt of the COE.

The University will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds because of the inability to meet his or her financial obligations to the institution due to the delayed disbursement of funding from VA under chapter 31 or 33. If any late fees do appear, they will not be charged to the covered individual until after the 90-day period referenced above.

The Monthly Housing Allowance is calculated based upon the location of the campus where a student attends the majority of their classes, based upon Section 107 (FGIB). A "campus" may include internships, externships, training, practicums, etc. Students enrolled in 100% online programs will receive a reduced MHA amount, based upon their enrollment status. Hybrid courses must be certified at the on-campus rate, per VA regulations. All veterans and dependents who are eligible for benefits under the federal Post-9/11 Veterans Educational Assistance Act of 2008 (38 U.S.C. Section 3301 et seq.), or any other federal law authorizing educational benefits for veterans or dependents, will receive in-state tuition and fees.

Veterans needing assistance in obtaining a copy of their Joint Service Transcript or CCAF transcript should email [ekuveteransaffairs@eku.edu](mailto:ekuveteransaffairs@eku.edu) or call 859-622-2345.

## VA Regulations for Aviation Courses

Students using GI Bill® benefits to fund an aviation course must complete each flight lab within 19 weeks of initiation of the first flight event; failure to do so will result in the student being assigned a grade of NC (No Credit). Students using GI Bill® benefits must repay to the VA the cost (including a portion of stipends for living expenses) related to any course in which a grade of NC is earned. Important – All student participants receiving Veterans Administration benefits have 19 calendar weeks from the date of the first flight event to complete an Aviation flight lab.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <http://www.benefits.va.gov/gibill> (<http://www.benefits.va.gov/gibill/>).

## Aviation Flight Hours & Costs/Fees

A complete listing of aviation related fees for the current academic year is published on the EKU Aviation Flight Fees website (<http://aviation.eku.edu/aviation-flight-fees>) (<http://aviation.eku.edu/aviation-flight-fees/>), and are included in materials provided by the flight instructors.

Additionally, all VA funded flight students receive this information from the EKU Office of Military and Veterans Affairs during their enrollment certification process. Students should verify through their regional Department of Veterans Affairs processing office if they have questions regarding their eligibility to use VA resources to complete the requirements of the EKU Aviation program.

## Kentucky National Guard Tuition Award Program

Active members of the Kentucky National Guard can utilize the Kentucky National Guard Tuition Award Program if they meet all eligibility criteria with the National Guard. Members must maintain all minimum standards, be eligible for all positive personnel actions, and have completed basic training or its equivalent. Eligible members will be awarded up to in-state tuition for full or part-time study at any Kentucky public college while funds are available. Members must apply to utilize the Kentucky National Guard Tuition Award Program each semester. The deadline to apply for the Summer and Fall semesters is April 1, and the deadline to apply for the Winter and Spring semesters is October 1. The application is available online at <https://ky.ngb.army.mil/tuitionstudent> (<https://ky.ngb.army.mil/tuitionstudent/>). For additional information, members can contact the Boone National Guard at (502) 607-1039.

## Survivors' and Dependents' Educational Assistance

DEA (Chapter 35) provides education and training opportunities to eligible dependents and survivors of certain veterans. For more information on DEA eligibility visit [www.vets.gov](http://www.vets.gov) (<http://www.vets.gov>).

## Children of Kentucky War Veterans

If you are the child of a Kentucky War Veteran, you may also be entitled to a tuition waiver in addition to your DEA benefits. Under the provisions of KRS 164.505, 164.507, and 164.515, children of Kentuckians who were killed in military action or who were permanently and totally disabled in wartime military services are eligible for this waiver. For additional information contact the Kentucky Department of Veterans Affairs, Tuition Waiver Coordinator at (502) 595-4447.

## Office of Multicultural Student Affairs

Liliana Gomez de Coss, Director  
13 Powell Building  
Phone: (859) 622-4373  
Fax: (859) 622-6997  
[www.omsa.eku.edu/](http://www.omsa.eku.edu/) (<http://www.omsa.eku.edu/>)

The Office of Multicultural Student Affairs (OMSA) seeks to bring issues of cultural diversity to the forefront of campus conversation through educational programs and services. OMSA serves all students as they question personal and collective notions of race, gender, economic status, language, nationality, ethnicity, religion, sexual orientation, age, exceptionality and culture. OMSA encourages the utilization of campus resources, participation in campus life, understanding and respecting cultural differences, and encouraging tolerance and inclusiveness.

OMSA is actively engaged in collaborative efforts with other departments and academic areas on campus and provides co-curriculum learning experiences. OMSA also focuses on helping students from under-represented groups feel welcomed and supported so that cultural barriers are minimized and to help all students become more culturally competent to prepare them to enter an increasingly diverse workforce.

The center promotes life-long learning and global citizenship by providing programs, workshops, diversity trainings, study groups, panel discussions and events on cultural awareness, sensitivity and competence.

Located within the Powell Student Center, The Office of Multicultural Student Affairs is actively engaged in collaborative efforts with other departments and academic areas on campus including African/African-American Studies, Appalachian Studies, Campus Ministries, International Education, and Women and Gender Studies. The center also supports the efforts of various Eastern Kentucky University student organizations such as African /African American Studies Group, the Alphabet Lounge Student Group, B.S.U. (Black Student Union), Christian, EKV Capoeira Club, Eastern Kentucky University Gospel Ensemble, Feminists for Change, International Student Association, L.S.A. (Latino Student Association), M.A.R. (Men Against Rape), M.C.C. (Minority Collegiate Connection and Collegiate Black), Men of Color Mentorship Program, M.S.A. (Muslim Student Association), National Pan-Hellenic Council (N.P.H.C.), OWLS (Older, Wiser, Learners), Pride Alliance, Saudi Student Association, and S.I.S.T.A.

## Student Health Services

Rowlett 103  
Phone: (859) 622-1761  
Fax: (859) 622-1767  
[www.healthservices.eku.edu](http://www.healthservices.eku.edu) (<http://www.healthservices.eku.edu>)

The mission of Student Health Services at Eastern Kentucky University is to provide our students with the best quality acute ambulatory medical care in a compassionate environment, while providing education on healthy lifestyles from which our students can benefit for the rest of their lives.

Student Health Services has three primary goals: first, to address any acute medical condition that threatens health, interferes with function, reduces performance, and serves as an obstacle to learning and personal growth; second, to educate our student body on healthy lifestyle choices that promote wellness and reduce the chances of disease—the preventive approach; third, to serve as a source of information and access to community based assistance programs. Services provided at the Health Center include:

- Outpatient acute medical care
- Allergy shots
- Basic laboratory tests
- Certain immunizations
- X-Ray requests
- Tuberculosis skin testing
- Health education
- AIDS education/testing referral

To make an appointment to see a provider, please go to the SHS website and click on the icon at the bottom left corner of the home page: "Schedule Online Appointment."

A variety of free pamphlets, booklets, and other materials are available at the SHS. Students may utilize the computer terminal with Internet access in the SHS lobby to look up health related topics of interest.

## Student Life and First-Year Experience

Loni Yost, Director  
Powell 128  
Phone: (859) 622-3855  
[www.studentlife.eku.edu](http://www.studentlife.eku.edu) (<http://www.studentlife.eku.edu>)

The Office of Student Life & First-Year Experience (SL&FYE) at Eastern Kentucky University is dedicated to making sure every student has the opportunity to get involved and receive valuable experiences outside of the classroom. SL&FYE provides numerous services and programs for EKU students including Community Service, Colonel's Cupboard, Fraternity & Sorority Life, Leadership, Registered Student Organizations (RSOs), and Student Activities. SL&FYE also provides educational opportunities to assist students in their holistic development.

The first step to getting involved is visiting our website:  
[www.studentlife.eku.edu](http://www.studentlife.eku.edu) (<http://www.studentlife.eku.edu>).

### First-Year Experience

First-Year Experience (FYE) serves to help you connect to EKU inside and outside the classroom, and empower you with experiences and resources to make your first year a powerful, engaging experience. We strive to build all FYE programming on these three pillars:

- **Excite** your Colonel spirit by embracing EKU traditions and embarking on your individual "Eastern Experience."
- **Exchange** dialogue, ideas and perspectives with faculty, staff and peers to connect with the greater EKU community.
- **Excel** inside and outside the classroom by establishing positive habits that will help make you a successful Colonel at EKU and beyond.

Our cornerstone FYE program, **Big E Welcome**, will allow you to build friendships and connections with other first-year students, equip yourself with skills to excel in the classroom, and truly welcome you into the EKU experience! Your Colonel Crew Leader (a current EKU student) will lead you through the festivities and share the weekend with you.

### Community Service and Colonel's Cupboard

From disaster relief to blood drives, EKU students are changing the world one project at a time. Whether serving out of state on an Alternative Break trip or right here on campus, our service projects offer you the opportunity to make new friends, build your network, and grow as an individual. Our projects fit perfectly into a wide variety of majors, minors, and concentrations to provide offerings that fit everyone's interests.

The Colonel's Cupboard is an on-campus food pantry that assists EKU students who may be experiencing food insecurity. We also offer toiletry items and clothing items through the Clothing Bank and Closet TransForm housed within the Colonel's Cupboard.

### Fraternity & Sorority Life

EKU is home to a vibrant fraternity and sorority community comprised of nearly 30 chapters and four governing councils: Interfraternity Council (IFC), Multicultural Greek Council (MGC), National Pan-Hellenic Council (NPHC), and Panhellenic Council (NPC).

Visit [greeklife.eku.edu](http://greeklife.eku.edu) (<http://greeklife.eku.edu>) to learn more about the recruitment process and these values-based organizations focusing on scholarship, service, leadership, and life.

- **Scholarship** – Each chapter has scholastic standards members are required to meet. Additionally, chapters implement academic success plans including study hours, incentives, and much more.
- **Service** – Greeks regularly dedicate their time, talent, and treasure to bettering the world in which we live. This is accomplished through philanthropy and community service efforts.
- **Leadership** – The fraternity and sorority community give members many opportunities to lead within the chapters and in the community.
- **Life** – Membership is a lifelong commitment. Fraternity and sorority members value brotherhood/sisterhood and being together for support and fellowship.

### Leadership

SL&FYE is dedicated to providing leadership programs which cultivate your personal leadership talents to help you be successful during your time at EKU and beyond. Our leadership programs include workshops, our annual LEAD EKU conference, I AM EKU, and more!

### Parent & Family Programs

The EKU Parent & Family Network serves to empower EKU parents, family, and friends with resources, timely and important information, and programs to support the success of their Colonel. The network assists in helping families stay connected and informed on the EKU community. More information can be found at [www.familyprograms.eku.edu](http://www.familyprograms.eku.edu) (<http://www.familyprograms.eku.edu>).

### Student Activities

SL&FYE hosts dozens of events each semester aimed at educating, entertaining, and meeting the needs of EKU students. We also have many programs in which we collaborate with various departments across campus to enhance the out-of-classroom experience. Check out upcoming events at [studentlife.eku.edu](http://studentlife.eku.edu) (<http://studentlife.eku.edu>).

### Student Organizations

SL&FYE is home to a variety of Registered Student Organizations (RSO) that EKU students are welcome to get involved with at any time! RSOs at EKU include a group of 6 or more current EKU students who have formulated an organization for a common purpose. Student organization information can be found at [www.studentlife.eku.edu/student-organizations](http://www.studentlife.eku.edu/student-organizations) (<http://www.studentlife.eku.edu/student-organizations/>).

### Student Conduct and Community Standards

Emily Jo Davis, Director  
1 Turley House  
Phone: (859) 622-1500

The Office of Student Conduct and Community Standards believes Eastern Kentucky University is a community of shared academic values, foremost of which is a strong commitment to intellectual honesty, honorable conduct, and respect for others. In order to meet these values, students at Eastern Kentucky University are expected to adhere to the highest standards of academic integrity. When becoming a part of the

University community, the student enjoys social, cultural, and educational opportunities. The student also assumes the role of a citizen of the community and agrees to abide by the regulations and standards of conduct of the University community. The Office of Student Conduct and Community Standards provides a fair and impartial student conduct system for students, faculty and staff of Eastern Kentucky University.

The Office of Student Conduct and Community Standards will:

- Provide information to all students relating to the General Regulations for Student Behavior,
- Adjudicate all reports of alleged violations of the General Regulations for Student Behavior and the Policy for Academic Integrity in a consistent manner,
- Facilitate due process rights set forth by the University Handbook for Students, and
- Ensure fair and impartial hearings.

## Student Success Center

Dr. Ashley Sweat, Director  
Library 106D and Whitlock Building, First Floor  
(859) 622-7861  
SuccessCenter@eku.edu  
www.successcenter.eku.edu (<http://www.successcenter.eku.edu>)

The Student Success Center is the one-stop resource for students who need answers to any questions they may have during their college experience. Our full-time staff members serve as resources for students as they navigate college, often proactively reaching out to students who may need assistance. They also provide referrals to other EKU resources about which students may not be aware.

The EKU Gurus are trained tutors and mentors who work through Student Success Center programs to provide peer-to-peer service to EKU students. The Student Success Center has the College Reading and Learning Association's International Tutor Training Certification and International Mentor Training Certification. Each EKU Guru is trained under CRLA guidelines to provide students with study skills, time management, critical reading strategies, test preparation approaches, and other skills necessary for college success. Additionally, Gurus provide content help in over 100 courses. For each course they cover, the Guru has earned a high grade in that class and has a faculty recommendation to tutor in that course. Additionally, staff members are trained to help students deal with life issues that may be impeding their success at college.

The workshops and other programs in the Chellgren Success Series are designed to help students with study skills, time management, choosing a major, and more. The Student Success Center also serves as a study area for students so that they can do homework and study with tutors nearby if they need assistance because asking for help is a habit that will help students be more successful. The center's administrators track check-ins for reporting study and tutoring hours for many programs on campus.

All of our services are provided at no extra cost to students. Online and in-person services are available. To schedule an appointment or find out our drop-in hours, visit our website.

## Student Outreach and Transition Office (SOTO)

Ms. Lisa Cox, Director  
Whitlock Building 442  
Phone: (859) 622-7686  
[www.soto.eku.edu/](http://www.soto.eku.edu/) (<http://www.soto.eku.edu/>)

This one-stop transitional center is designed for transfer, non-traditional and re-entry students (away from EKU for over 2 years). The Student Outreach and Transition Office provides comprehensive support to students from initial inquiry through registration for their first semester of classes, serving as an advocate to promote their needs along the way. Prospective students receive individualized consulting services in the areas of admissions, degree audits, major selection, academic bankruptcy, credit transfer process, degree completion via distance learning, and course registration prior to their first semester. This office also provides students with answers to basic questions regarding filing for financial aid, financial aid appeals, and receiving credit for prior learning. Evening appointments are available to better serve the needs of adult learners.

SOTO also serves as a hub for diverse students with access to the bilingual Associate Director of Latino Recruitment and Retention who is available to answer questions and refer students to appropriate resources. SOTO is also home to the Rodney Gross Scholars program. Scholars have access to dedicated study areas that include computer access, mentoring and tutoring assistance upon request.

## Colonel Connection Program

The Colonel Connection Program facilitates the transfer process from other colleges to EKU, and eases students' transition to and timely graduation from EKU. The program is available to students who are currently enrolled at another institution (e.g., a community college) and intend to transfer to EKU to complete a baccalaureate degree. Students must apply for admission to EKU, meet all admission requirements, and be accepted to EKU before enrolling in the Colonel Connection program.

Upon admission and completion of the Colonel Connection program agreement, participating students are granted continuous access to EKU's Degree Works degree audit system, allowing them to view their individualized degree plan and progress towards an EKU baccalaureate degree. The degree audit is then kept current through regular submission of transcripts to EKU for credit evaluation. (Note: Colonel Connection students may not enroll in EKU coursework without first requesting visiting-student status through their advisor.)

When ready to transfer to EKU, the student must complete a Colonel Connection Admission request form in lieu of submitting another application for admission. This confirms the student intent to enroll as a degree-seeking student and locks in any transfer scholarship for which the student might be eligible.

To maintain enrollment in the Colonel Connection program, a student must:

- maintain a minimum 2.0 grade-point average (GPA) on all college-level work completed to date;
- complete, with a grade of C or better, no fewer than six (6) credits in the most recent fall/spring semester; and

- meet with an assigned EKU advisor at least twice per academic year to discuss their progress and plans for transfer and graduation.

Students who fail to meet any of the above standards will be given one fall or spring semester to comply, after which they will be disenrolled from the Colonel Connection program.

Upon enrollment in the Colonel Connection program, participants will have a catalog year associated with their student record designating the academic year for their degree program as well as General Education and University graduation requirements. Should graduation requirements subsequently change, students may request a move to the current Catalog through the Registrar's Office. The catalog year may be found on the student's Degree Works degree audit.

Students who fail to maintain their enrollment in the Colonel Connection program may apply for readmission to the program; however, their catalog year will be based on the date of re-enrollment.

For further information regarding the Colonel Connection program, contact the EKU Student Outreach and Transition Office (SOTO).

## TRIO Programs

### Educational Talent Search Program

Ms. Lisa Sons, Director  
Telford House  
(859) 622-5425  
www.ets.eku.edu (<http://www.ets.eku.edu>)  
ETS@eku.edu

The EKU Educational Talent Search (ETS) Program is one of the federal TRIO, pre-college programs that serves 765 students in Estill, Garrard, Jackson, Lee, and Madison counties. ETS is funded by the U.S. Department of Education and has been hosted at EKU since 1985. ETS works with students in middle school and high school who have the interest and ability to continue their education beyond high school. Two-thirds of the participants must meet federal income and first-generation guidelines for the program.

The goal of the program is to assist participants as they transition from middle school to high school, and on to a post-secondary educational institution. Educational Talent Search offers services related to the following areas: academic information, career resources, exposure to college campuses, career sites and cultural activities, financial literacy, financial aid program information, mentoring, tutoring and personal development activities. Educational Talent Search also offers assistance to out-of-school adults in identifying additional support services. ETS offers assistance for high school completion through referrals to GED programs and local high schools. Services are also available for those who are enrolling in postsecondary institutions for the first time or for those who are returning to school.

All ETS services and activities are at no cost to the student and family. More information and the ETS application can be found on the ETS website at: [www.ets.eku.edu](http://www.ets.eku.edu) (<http://www.ets.eku.edu>).

## McNair Scholars Program

Mr. Rich Richmond, Director  
Jones 409  
(859) 622-6249

The McNair Scholars Program at Eastern Kentucky University is a federal initiative funded through the U.S. Department of Education. The McNair Scholars Program encourages and assists undergraduate students from disadvantaged backgrounds who aim to enter careers that require doctoral achievement. Professional staff members provide supportive supplemental advising, offer holistic academic counseling, and facilitate structured training opportunities that enhance participants' readiness for graduate school applications and preparation for graduate school achievement.

### Services provided by the program include:

- PhD faculty mentoring
- Supportive supplemental advising
- Holistic academic counseling
- Seminars and scholarly activities that prepare participants for graduate level achievement
- Paid summer research internships
- Conference and presentation opportunities
- Graduate school application preparation and support
- EKU Scholarships

Additional information about the McNair Scholars program can be found on the website at [www.mcnair.eku.edu](http://www.mcnair.eku.edu) (<http://www.mcnair.eku.edu>).

## NOVA Program

### (TRIO Student Support Services)

Ms. Sierrah Anderson, Director  
Turley House  
Phone: (859) 622-1047  
Fax: (859) 622-1074  
[www.nova.eku.edu](http://www.nova.eku.edu) (<http://www.nova.eku.edu>)

The NOVA Program is a federal TRIO Student Support Services grant project committed to fostering the intellectual, personal, and professional growth of first-generation and low-income students from Orientation to Graduation.

NOVA's retention model is comprehensive in design, providing targeted services designed to meet each student's individual needs.

### Services include:

- Academic Advising
- Career Counseling
- Classroom Instruction
- Financial Aid and Financial Literacy Consulting
- Graduate School Preparation
- Personal Counseling
- Service Learning
- Living Learning Community
- Peer Mentoring
- Personal Counseling
- Registered Student Organization
- Service Learning Experience
- Scholarship Opportunities
- Supplemental Grant Aid Opportunities
- Tutoring Services

- Workshops
- ...and much more!

Students who are interested in joining NOVA may apply online at [www.nova.eku.edu](http://www.nova.eku.edu) (<http://www.nova.eku.edu>) or stop by the NOVA office to obtain an application.

## Upward Bound Program

Ms. Tamara Stewart, Director  
Patterson House  
(859) 622-1080

EKU Upward Bound is an academic, college-preparatory program serving 125 first-generation, low-income high school students in Casey, Estill, Lee, Lincoln, Powell, and Wolfe counties. Upward Bound is funded by the U.S. Department of Education as one of the federal TRIO programs and has been at EKU since 1965.

Upward Bound provides a comprehensive year-round program each academic year and summer components encompassing a wide variety of services including educational instruction, individualized and group academic tutoring, college exposure, financial aid assistance and financial literacy, career exploration, and cultural activities. The academic year component consists of monthly on-campus academic sessions and school visits and individual contacts. The summer residential component lasts for six weeks and is designed to simulate a college-going experience by offering academic enrichment through rigorous coursework in mathematics through pre-calculus, laboratory science, foreign language, and composition and literature, as well as electives and special interest classes. Participation is at no cost to the students.

Interested students should contact their high school guidance counselor or visit the website to “Nominate a Student” at [www.upwardbound.eku.edu](http://www.upwardbound.eku.edu) (<http://www.upwardbound.eku.edu>).

## General Academic Information

Student success is an EKU priority. The General Academic Information section provides students with key information to help them succeed on the path toward completing a degree. All students should become familiar with the General Academic Information section of the Catalog as well as specific college and departmental program requirements. Being unaware of these regulations and requirements does not exempt a student from complying with the requirements.

- Applied Critical and Creative Thinking (ACCT) (p. 50)
- Academic Fresh Start (p. 50)
- Academic Integrity (p. 51)
- Academic Readiness (p. 51)
- Academic Standards (p. 53)
- Graduation and Commencement Information (p. 55)
- Course Types (p. 57)
- Declaring a Program of Study (p. 58)
- Degree Information and Requirements (p. 59)
- Enrollment and Class Schedule (p. 61)
- General Education Requirements (p. 62)
- Grades (p. 66)
- Non-Traditional Academic Credit (p. 69)
- Pre-Professional Programs (p. 70)
- Study Abroad Credit (p. 70)
- Transfer Student Information (p. 70)
- Exploratory Students (p. 72)
- Withdrawal (p. 72)

## Applied Critical and Creative Thinking (ACCT)

The ACCT is a program-directed University baccalaureate degree graduation requirement intended to showcase the unique experiential and applied components of all undergraduate degrees at EKU. The goal of the ACCT is to ensure that students integrate into their degree program experiences and/or courses that demonstrate applied critical and creative thinking skills. Any course or experience used to meet this requirement may also be used to satisfy program requirements. Options to satisfy this requirement vary by degree program and will be determined by the program. The ACCT experience is expected to be at least a 3 credit hour course, or an experience that requires equivalent effort. Students should refer to the program requirements for their majors, as listed in this *Catalog*, or listed on their Degree Works degree audit, for specific information on the ACCT requirement.

## Academic Fresh Start

### EKU Work

Academic Fresh Start allows undergraduate students who are returning to Eastern Kentucky University after remaining out for an extended period of time to remove from their GPA a portion of the work attempted during prior college enrollment(s). EKU offers this option of academic renewal because it recognizes that some students fail to perform satisfactorily due to immaturity or to other factors that interfere with their academic performance.

Students considering academic fresh start should make careful note of the following policy conditions:

1. The student must not have attended Eastern Kentucky University or any other institution of higher education for a period of at least two consecutive years sometime after attempting work to be removed from GPA.
2. The student must be currently enrolled as a degree-seeking student at EKU.
3. The student must not have previously participated in Academic Fresh start or declared academic bankruptcy of EKU work.
4. Only semesters where the term GPA is below 2.0 will be considered.
5. Within eligible terms (see 4. above), only courses with grades of “D” or “F,” or the equivalent, may be considered.
6. During their first semester after being readmitted a student requesting fresh start must attain a minimum of a 2.0 term GPA. The student must earn no grade lower than a “C” on at least 12 hours of 100-level (or higher) EKU coursework, and pass any college readiness courses. All courses and grades, including repeated courses, will be counted in the qualifying term GPA.<sup>1</sup> For the purpose of determining fresh start a grade of “S” is acceptable.
7. A student who does not enroll in 12 credit hours of 100-level or higher coursework during their first term back at EKU will have their enrollment in the subsequent semester combined with that of the first to determine fresh start. All academic work attempted in the term that includes the twelfth credit hour is affected by the above grade restrictions.

8. Before formally requesting consideration for fresh start, the student must confer with fresh start experts in the Registrar's Office to determine which semesters may qualify for and what the impact to the student's GPA will be. The student will then complete and sign the Academic Fresh Start form.
9. Any academic work used to complete a baccalaureate degree is not eligible once the degree has been awarded.

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If it takes more than one semester to complete the necessary 12 credit hours, the student must maintain a consistent 2.0 term GPA since being readmitted.

If fresh start is granted, the class(es):

- Will remain visible on the transcript, but with a "\$" designation.
- Will not be counted in the student's GPA.
- Will not count as earned hours. (Note that Financial Aid will continue to count these hours as attempted hours.)
- Will be included in the separate GPA calculation which is done when determining graduation honors.
- Will be prevented by Degree Works from meeting any degree requirements (including the 42 hour upper division requirement). However, the dean of the college of the student's major may waive major, supporting, and general education requirements met by fresh start courses. Note that this does not add back any credit hours from fresh start courses, the student may be required to complete additional elective courses to obtain the minimum number of credit hours required to graduate.

## Transfer Work

Fresh start of transfer coursework undergraduate students who have been out of higher education for an extended period to void a portion of their earlier work attempted at other institutions. EKU offers this option because it recognizes that some students fail to perform satisfactorily due to immaturity or to other factors that interfere with their academic performance.

To qualify for transfer fresh start, a student must meet the following conditions:

1. The student must not have attended Eastern Kentucky University or any other institution of higher education for a period of at least two consecutive years sometime after attempting the work to be removed from GPA.
2. Students may request to fresh start prior work. However, all EKU fresh start restrictions and rules listed in the general academic fresh start section of this catalog apply.
3. After being admitted to EKU, the student must attain a minimum of a 2.0 GPA with no grade lower than a "C" on at least 12 hours of college-level (i.e., 100 or above) EKU courses and pass any attempted college readiness courses. All courses and grades, including repeated courses, will be counted when determining eligibility for academic fresh start. A grade of "S" is also acceptable for meeting academic fresh start eligibility. All work attempted in the academic term that includes the twelfth hour is affected by these grade restrictions.
4. The transfer student must submit a completed Academic Fresh Start request form to the Office of the Registrar. All students should consult with a fresh start expert in the Registrar's Office. Together, they will identify the transfer institutions from which work is to

be considered, as well as the specific semesters that qualify for academic fresh start.

5. The student may not have previously participated in fresh start or declared transfer bankruptcy at EKU.
6. Academic work earned before completion of a baccalaureate degree is not eligible once the degree has been awarded.
7. The student must be currently enrolled as a degree-seeking student at EKU.

If transfer fresh start is granted, the work:

- Will remain visible on the transcript, but with a "\$" designation.
- Will not be counted in the student's GPA.
- Will not count as earned hours. (Note that Financial Aid will continue to count these hours as attempted hours.)
- Will be included in the separate GPA calculation which is done when determining graduation honors.
- Will be prevented by Degree Works from meeting any degree requirements (including the 42 hour upper division requirement). However, the dean of the college of the student's major may waive major, supporting, and general education requirements met by fresh start courses. Note that this does not add back any credit hours from fresh start courses, the student may be required to complete additional elective courses to obtain the minimum number of credit hours required to graduate.

Transfer students who have participated in academic fresh start (or academic bankruptcy/renewal) at a previous institution, and have not yet earned a baccalaureate degree, may petition through the University Exception process to either have the affected transfer coursework brought into EKU as it was recorded by the previous institution, or have the coursework applied through EKU's academic fresh start policy.

## Academic Integrity

EKU students are expected to adhere to the highest standards of academic integrity. Students who are found guilty of academic dishonesty will be sanctioned in a manner that is appropriate to the infraction. Sanctions may range from receiving a failing grade on the assignment to being assigned a failing grade in the course. Stronger sanctions are possible in the event a case is assigned to the Student Disciplinary Council. Students who are assigned a grade of "F" or "FX" in a course due to academic dishonesty will not be permitted to withdraw from the course.

For a full description of academic dishonesty, including plagiarism, cheating, and fabrication, refer to the section entitled Academic Integrity Policy in the University Handbook for Students.

## Academic Readiness

The Academic Readiness Program at Eastern Kentucky University helps students achieve academic success by: developing or enhancing skill level proficiencies in the areas of reading, English writing, and/or mathematics; improving students' academic, financial literacy, and social readiness skills; and promoting self-advocacy and personal responsibility among students who are new to the University.

**Academic Readiness:** In Kentucky, academic readiness (also called college readiness) is indicated by minimum ACT subscores of 18 in English, 19 in mathematics, and 20 in reading. College-level skill proficiencies in writing, reading, and mathematics also may be measured

by student performance on the SAT, the KYOTE (Kentucky Online TESting), the GED College Readiness exam, ALEKS mathematics scores, high school GPA, and/or ECU placement tests. Students whose test scores indicate the need for additional academic readiness preparation may be required to complete one or more ECU Academic Readiness courses. Students should carefully review the General Education section of Degree Works, General Education Element 1 and/or Element 2 to confirm if they are required to complete one or more of the following academic readiness courses:

## English Composition and Reading Courses

- ENG 101R Reading, Writing, and Rhetoric (Supported – 4 credit hours) A grade of A, B, or C fulfills reading and/or English Academic Readiness requirement. Earning a grade of B or C in ENG 101R Reading, Writing, and Rhetoric requires the student to take ENG 102R Research, Writing, and Rhetoric immediately following ENG 101R Reading, Writing, and Rhetoric.
- ENG 102R Research, Writing, and Rhetoric (Supported – 4 credit hours)

## Quantitative Reasoning Courses

- MAT 105P Quantitative Support for MAT 105 for MAT 105 Mathematics with Applications
- MAT 106P Quantitative Support for MAT 106 for MAT 106 Applied Mathematics:\_\_\_
- MAT 111A Quantitative Support: MAT 112A for MAT 112A Algebra: Polynomials
- MAT 111B Quantitative Support: MAT 112B for MAT 112B Algebra: Functions & Matrices
- PHI 101R Logic and Critical Reasoning (Supported) (Supported)
- STA 215P Quantitative Support for STA 215 for STA 215 Introduction to Statistical Reasoning
- Students who earn a grade of B or C in ENG 101R Reading, Writing, and Rhetoric can take ENG 102R Research, Writing, and Rhetoric at the same time as a MAT/STA/PHI Academic Readiness course.

Final grades for all Academic Readiness courses (except those that receive a grade of 'S') are calculated in the GPA.

Students transferring to Eastern Kentucky University with an Associate of Arts, Associate of Science, Associate of Applied Sciences, Associate of Science in Nursing degree, or an equivalent, will be considered proficient in the three basic skill areas of English (writing), mathematics, and reading. Please see Section Six of this Catalog for descriptions of these courses.

## Academic Readiness Course Enrollment and Completion Requirements

Following are the policies concerning academic readiness course enrollment and completion requirements for degree seeking students:

1. All full- or part-time students, including transfer and online students, who need to complete any of the Academic Readiness courses listed above are **required** to enroll in and complete the needed courses during the following time frames:
  - a. ENG 101R Reading, Writing, and Rhetoric must be completed during the first semester of enrollment at ECU. Enrollment in the appropriate English course shall take precedence over enrollment in any other courses during a student's first semester.

- b. MAT 105P Quantitative Support for MAT 105, MAT 111A Quantitative Support: MAT 112A/MAT 111B Quantitative Support: MAT 112B, STA 215P Quantitative Support for STA 215 are restricted based on English writing and/or reading need. *Any* student required to take ENG 101R Reading, Writing, and Rhetoric *may not* take mathematics until the second semester.
2. Mathematics or Quantitative Reasoning Course Completion: Students who have not met mathematics academic readiness benchmark are required to enroll in an academic readiness mathematics course that corresponds with an intended major no later than the third semester of enrollment.
  3. Enrollment in the appropriate mathematics course shall take precedence over enrollment in any other course, with the exception of ENG 101R Reading, Writing, and Rhetoric, at the beginning of the student's third semester and may be completed concurrent with ENG 102R Research, Writing, and Rhetoric, if necessary.
  4. ENG 102R Research, Writing, and Rhetoric must be completed in the semester immediately following completion of ENG 101R Reading, Writing, and Rhetoric, to include the summer semester, if a student enrolls in summer courses.
  5. All full- or part-time students with academic readiness needs in two or more areas (English composition, reading, and/or math) are **required** to take GSD 101 Foundations of Learning in the first semester of enrollment.
  6. Students who fail to demonstrate continuous, progressive enrollment in required academic readiness courses may have a Registration Hold placed on the student record. Students with a Registration Hold are required to meet with an assigned advisor or academic mentor to establish a plan toward completion of remaining academic readiness requirements.

## Academic Readiness Courses as Completion of English and Quantitative Reasoning General Education Requirements

The successful completion of ENG 101R Reading, Writing, and Rhetoric with a final grade of C or higher satisfies the General Education Element 1A: Written Communication requirement.

The successful completion of MAT 105P Quantitative Support for MAT 105, MAT 106P Quantitative Support for MAT 106, MAT 111A Quantitative Support: MAT 112A, MAT 111B Quantitative Support: MAT 112B, PHI 101R Logic and Critical Reasoning (Supported), and STA 215P Quantitative Support for STA 215 in conjunction with their paired courses satisfy the General Education Element 2: Quantitative Reasoning.

## Colonels Now

Colonels Now is a transition program for all students who are new to Eastern Kentucky University. It is designed to support the academic, social, emotional, and financial college readiness skills of any student new to the University who wishes to receive additional wrap-around supports intended to enhance the first-year experience at ECU. Wrap-around supports may include mentoring, specialized advising, specialized tutoring and academic skills support, access to specialized programming, and social events.

The Colonels Now program begins in the summer semester. Note: Students who wish to maintain contact with Colonels Now program mentors after the first year of college may do so. The Colonels Now program is offered on the Richmond campus. For more information, contact the ECU Office of Academic Readiness at (859) 622-3524.

Colonels Now students work with the Associate Director, Dual Credit and Transition Services, who coordinates the program, to enroll in common first-year courses. Course placement will be based on ACT, ECU Placement Testing, SAT, KYOTE, GED, or ALEKS Mathematics test scores as well as intended major and any prior college credit.

## Academic Restrictions for Students with Academic Readiness Needs

- New first-time freshmen with Academic Readiness needs in two or more areas (English composition, reading, or mathematics) will be enrolled in the Associate of Arts in General Studies Degree program. The Office of Academic & Career Services will assist these students in creating linkages to departments of academic interest. The Associate Director of Academic Readiness and Outreach will serve as a supplemental advisor to guide students toward completion of college readiness requirements.
- Students with two or more Academic Readiness requirements are permitted to enroll in up to but not beyond 16 hours of University coursework.
- Students enrolled in any Academic Readiness course may be restricted in course registration based on academic department course pre-requisites.

## Academic Standards

### Academic Achievement Awards and Recognitions

**Dean's List:** The dean's list is one of several ways in which the University recognizes undergraduate students who achieve academic excellence. The dean's list is published after each standard (fall/spring/summer) semester. Eligibility requirements for the dean's list are as follows:

Undergraduate Hours Earned with Normal Grading	Minimum Term GPA
12	3.75
13	3.65
14 or more	3.50

Students earning fewer than 12 semester hours under the regular grading system are not eligible for the dean's list. Courses below the 100 level will not be counted in determining eligibility for the Dean's List.

**Dean's Award:** As a further recognition of academic excellence, the University presents the Dean's Award to undergraduate students who have achieved the Dean's List and/or the President's Award (see below) three times. Students receiving the Dean's award are presented with a recognition pin by the appropriate academic dean.

**President's Award:** The highest undergraduate recognition of academic achievement for a semester (fall/spring/summer) is the President's Award. This award is given to students who complete a full time course load (minimum of 12 institutional credit hours earned) during a semester (fall/spring/summer), with normal grading (excluding developmental coursework), and who attain a 4.0 grade point average for that semester. Students receiving the President's Award receive a letter of recognition from the President. In addition, the division of Public Relations and Marketing distributes the names of the recipients to appropriate news media, including their hometown newspaper.

## Good Academic Standing Minimum Academic Standards

**Satisfactory Progress:** Degree-seeking students shall be considered as making satisfactory progress toward their degree so long as they remain in good academic standing and enroll in courses required or allowed in their chosen academic program.

Students having difficulty meeting academic standards are strongly advised to reduce or eliminate part-time jobs and other extracurricular activities which may detract from their studies, or to reduce the number of hours for which they are enrolled. To make timely progress toward degree students are expected to earn at least 15 credit hours per fall/spring semester.

**Good Academic Standing:** To be eligible for enrollment without being placed on academic probation, students must maintain a minimum of the following institutional grade point average (GPA) while enrolled at ECU.

Overall GPA Hours	EKU GPA
Fewer than 31	1.5
31-50	1.8
Over 50	2.0

The actions described below pertain to students whose institutional GPA falls below the established GPA threshold. Once a student's institutional GPA returns to the established GPA threshold or above, he/she is once again in good academic standing.

**Academic Probation:** Students who do not meet the established institutional GPA (see table above) will be placed on Academic Probation after the close of that semester. While on academic probation, students may not enroll in more than 15 credit hours in either fall or spring terms or more than a total of six hours during a full (12-week) summer term.

**Intervention for New First-Time Students (new freshman and new transfers with less than 24 hours earned) on Probation:** Because a student's academic performance in their first semester at ECU is predictive of overall success and graduation, ECU increases support given to students whose institutional GPA is between 1.0 and 1.5 with 30 or fewer earned GPA hours. New first-time freshmen whose institutional GPA is between 1.0 and 1.5 are required to participate in prescribed intervention strategies and are placed on First Semester Probation, with a requirement of earning an institutional 2.0 or higher term GPA in the second semester to prevent academic suspension. New first-time students whose institutional GPA is below 1.0 after their first semester are academically suspended from the university without being first placed on probation.

**Academic Suspension:** At the end of a semester on academic probation, students must have earned a semester GPA of at least 2.0 or raised their institutional GPA to meet the established threshold (see table above). Students not meeting the semester or institutional GPA requirement will be placed on academic suspension. Students may not enroll in classes at ECU while academically suspended. Students who are academically suspended for the first time may not enroll in classes at ECU for one full semester (summer is counted with the next fall semester if a student is academically suspended at the end of the spring term). Students may be academically suspended up to three times during their academic career at ECU. The second academic suspension is for one calendar year and a third academic suspension is for two calendar years. An academically suspended student will return to ECU on academic probation if their institutional GPA falls below the established threshold at the time of

their return. Suspended students may be subject to EKU requirements for readmission after they have sat out their mandatory suspension period (please refer to the Requirements for Readmission section of the Catalog).

**Academic Dismissal:** Students who have been academically suspended three times must maintain a semester GPA of 2.0 or better each semester after they return. Students who have been academically suspended three times, and after returning are unable to maintain a semester GPA of 2.0, will be academically dismissed from EKU for a period of five calendar years and are subject to EKU requirements for readmission (please refer to the Requirements for Readmission section of the Catalog).

**Attending Another School While Suspended or Dismissed:** During the time a student is academically suspended or dismissed from EKU, course work earned at another regionally accredited college or university will be considered for transfer credit when the student returns to EKU. This course work can be used to meet graduation requirements but is not counted in institutional GPA. Students are responsible for requesting that an official transcript of any transfer course work be sent to the EKU Office of Admissions when they apply for readmission to EKU. Students should consult with their advisor or college for the applicability of course work taken at another institution to their degree program at EKU. In some circumstances acceptance of transfer work may be subject to requirements of prior approval by the department chair of the student's major.

**Improving Academic Standing:** Academic transfer course work is not considered when determining academic standing. Only by repeating EKU course work in which a student earned poor or failing grades can a student quickly rehabilitate their institutional GPA and therefore improve academic standing.

**Immediate Readmission following Academic Suspension:** Students on first suspension are required to sit out for one full regular semester (fall/spring). If there were documented, catastrophic circumstances beyond the student's control, University policy allows the student to submit a Petition for Immediate Readmission to the Office of the Registrar. The required documentation supporting the petition, the student's full academic record, and potential to successfully complete college work will be reviewed. If approved, the student will be allowed to attend the semester immediately following the suspension. Please note, the suspension will remain on the academic record and transcript. Students may not appeal an academic dismissal.

## First-Time Student Mid-Term Grade Review Process

The first semester for first-time freshmen and first-time transfers with less than 24 credit hours is pivotal to academic success and graduation. First-time students will have their mid-term grades reviewed by the Office of Advising and Career Services and the Registrar during their first semester at EKU. If the calculated GPA of all reported mid-term grades is below 1.0 (indicating non-attendance and/or failure to meet course requirements) the student will be required to participate in an intervention program that includes the following:

- a study skills workshop
- a signed Student Learning Agreement (Contract)
- a registration hold that is placed on their student account
- a change of degree status to an associate-level degree status until ending a term in Good Academic Standing.

First semester new students who fail to attend the required workshop, fail to respond to communication from the University, and/or to comply with their success agreement will be withdrawn from all courses for the current semester, have any future course registration cancelled and their student record inactivated.

First-time students who cease participation in courses during their first semester at EKU, and as a result are failing all classes at midterm, will be considered to have withdrawn from the University.

New first-time students whose institutional GPA is below 1.0 after their first semester are academically suspended from the university without being first placed on probation.

For more information visit the Office of Advising and Career Services website at [www.oacs.eku.edu](http://www.oacs.eku.edu) (<https://www.oacs.eku.edu>) or call (859) 622-1296.

## Academic Standing Noted on Transcript

A student's academic standing (good standing, academic probation, academic suspension, or academic dismissal) is determined at the conclusion of each semester and is notated term by term on the student's transcript.

Expulsion is the permanent separation of a student from the institution. Expulsion at EKU is restricted to the most egregious academic or disciplinary offenses. Expulsion, due to its permanent nature, is notated on the official transcript with the comment, "Expelled – ineligible to return".

Details of due process that can lead to expulsion of a student can be found in the Eastern Kentucky University Handbook for Students.

## Class Attendance

Students must be registered in a class in order to attend and participate. Individuals not registered are prohibited from doing so.

Research shows that students who regularly attend class are more likely to succeed. The University expects all students to be officially registered before the end of the add/drop period for each course, and to attend all class meetings. EKU students are responsible for course work covered during all class periods, specifically any work missed during any absence from class, including the first class meeting. Each instructor will record absences and deal with them in a manner consistent with departmental policy for that course. Since attendance policies vary among departments and for courses within departments, students must be familiar with the policy printed on the course syllabus.

If a student presents the instructor with an adequate and documented reason for an absence, the instructor normally will give the student an opportunity to make up the work missed, if this is feasible. Adequate reasons involve circumstances beyond the student's control, such as personal illness, critical illness, or death in the immediate family, or participation in an approved University activity. No absence of any nature will be construed as relieving the student from responsibility for the timely completion of all work assigned by the instructor. Initiating the request to make up class work is the student's responsibility.

**Absence from Class Due to Participation in an EKU Sponsored Event:** A student who participates in an EKU sponsored event should complete and process a Student Absence from Class form before the sponsored event. This form explains the student's absence, it does not excuse the

student from responsibility for content covered during the approved absence.

**First Day of Class Attendance:** This process is designed to ensure clear reinforcement of the message that class attendance at EKU is important. All faculty (undergraduate and graduate, online and all other modes of delivery) are required by the University to drop a student for being absent (or not participating online) on the first day of class/first week of class (as scheduled by the Registrar's Office). Students who know they will be absent should contact their instructor or the academic department office **prior to the 1st class meeting** to explain their absence and request that the instructor not drop them from the class.

Students are responsible for monitoring their class schedule and should never assume that missing the first day of class will automatically result in removal from that class. A student who never attends a class but remains enrolled will receive a failing grade in the course and is responsible for tuition and fees for that class.

## Classification of Students

A student's classification is determined by the number of semester hours earned, as follows:

Student Classification	Semester Hours
Freshman	0 - 29 semester hours earned
Sophomore	30 - 59 semester hours earned
Junior	60 - 89 semester hours earned
Senior	90 or more semester hours earned

## Graduation and Commencement Information

### Application for Graduation

EKU is dedicated to all students making timely progress toward their desired degree. The EKU baccalaureate degree standard is a completion timeframe of 4 years for a 120 credit hour program. After declaring their desired baccalaureate degree program, students are expected to create a semester-by-semester degree pathway in the Degree Works academic planner, and to have this academic plan reviewed and approved by an advisor.

To make appropriate progress toward their degree, students are expected to earn at least 15 credit hours per term (or 30 hours per academic year) and take only those classes needed for their declared degree program as listed on their Degree Works planner. Students must be aware that changing majors is likely to prolong time toward degree, and they should make such changes only after serious discussion with an advisor or department or program chair (see Changing Major section of this catalog for more details). Due to specific program requirements, students who transfer into EKU with more than 60 hours may require more than two years at EKU to complete a baccalaureate degree.

### Applying for Graduation: 90th Hour Pre-Graduation Review

#### Required Graduation Application and Evaluation

To assist students with completing their degree on schedule, EKU professional advisors/graduation experts will review the student's

academic progress and Degree Works graduation plan to determine the earliest, reasonable graduation semester.

Baccalaureate degree seeking students will apply for graduation, and thus trigger this official graduation evaluation, during the semester in which they enroll in their 90th credit hour. The timing of this pre-graduation review is designed to be early enough to allow students to make any needed changes and avoid a graduation delay. Once evaluation has been triggered, a registration hold will be placed on the student's record pending submission of their graduation application. This hold is lifted automatically after the student submits a graduation application, online, through myEKU.

Each degree and University certificate-seeking student shall apply for graduation using the online graduation application located within each student's myEKU secure student services account. At the time of application each student shall have created, and have approved by an advisor, a Degree Works academic plan for every semester up through the proposed graduation term.

During the graduation evaluation the student's current registration and Degree Works plan for future terms will be examined – to determine whether the student is on-track and efficiently headed toward graduation. The student will be informed if he or she cannot meet the graduation goal declared on the graduation application, advised how to get back on-track, and given a new graduation timetable.

Results from the graduation evaluation will be documented on the student's Degree Works. Students will receive reminders when it is time to apply for graduation and initiate the graduation evaluation. Students are expected to heed warnings and follow any instructions posted on their Degree Works audit as a result of this official graduation evaluation. Students who apply to graduate without having the appropriate academic plan in Degree Works will be expected to submit the plan before being evaluated and before registering for the next semester.

### Degrees Awarded upon Completion of Program

Each student's degree will be awarded by the University at the first opportunity to do so upon completion of requirements for the student's declared program, per the student's graduation application. Students are expected to earn their baccalaureate degree no later than 6 years after initial matriculation as a first-time degree-seeking student.

Final graduation clearance, degree certification on behalf of the University, and production of diplomas are completed by the Office of the Registrar.

### Changing Major after Applying to Graduate

After applying to graduate and having a graduation semester confirmed by the University, students are expected to maintain their declared program of study, and thus graduate on schedule. Any exception must be approved by the Dean of the College of the student's major. Each student is expected to carefully review how any proposed change to a declared program of study would impact his or her approved graduation timetable and future financial assistance, if relevant. Given the gravity of such changes, only in extreme situations and after careful consultations with the student's professional advisor and/or written permission from a graduation evaluator would a change that would delay graduation be considered.

### Deferral of Graduation Date

Students who are not successful in completing all graduation requirements by their approved graduation date, but for whom the

University determines the graduation goal is still easily within reach, will have their graduation term automatically deferred to the next semester. Students can have their graduation deferred for a maximum of two sequential semesters. After that time the original graduation application will be cancelled and the student will be required to submit a new application for graduation, pay a new application fee, and have a revised Degree Works graduation plan approved by the graduation evaluator.

## Graduation Fair (Grad Fest)

There is a graduation fair (Grad Fest) on campus each fall and spring semester. This is an important event for all graduating students. At Grad Fest, students will conclude all needed graduation tasks, including picking up pre-ordered academic regalia.

## Graduation Fee

There is a graduation application fee for each diploma and/or university certificate sought; the appropriate fee is assessed to the student's EKU account upon receipt of the graduation application. This graduation fee only partially offsets the full cost of production and mailing of diplomas and certificates.

## Graduation Academic Regalia

Students order and pay for commencement regalia (cap, tassel, hood, and gown) through the EKU Barnes & Noble bookstore. Students earning University Latin Honors receive a complimentary Honors Sash; this regalia will be available at the Registrar's table during Grad Fest. Students graduating from the Honors Program will receive a complimentary maroon mortarboard from the Honors Program office. Refer to the Graduation Information website for more details regarding graduation fees and/or commencement.

## Commencement Participation

Commencement ceremonies are conducted at the conclusion of the fall and spring semesters, prior to final grade processing. Students who are graduating at the end of the summer semester may participate at the preceding spring ceremony. Students who are graduating at the end of the winter term may participate at the preceding fall ceremony.

The Commencement ceremony represents a celebratory gathering of all degree candidates who are expected to complete their academic requirements by the official degree-conferral date as established by the University. Attendance at Commencement is optional. Participation in the Commencement ceremony does not represent confirmation of degree completion ("graduation"). After final grades are processed and reviewed, degrees will be conferred. Students earning only a certificate, either university or departmental, may not participate in the Commencement ceremony.

## Degree Conferral Date

The Board of Regents of Eastern Kentucky University approves the conferring of degrees four times per year. These conferral dates represent confirmation that all degree and/or university certificate requirements have been met by that date. The formal conferral date is posted to the student's academic transcript and is the date printed on the diploma and certificate.

Below are the EKU degree/certificate conferral dates:

Semester	Date
Fall A (end of first 8 weeks)	October: Last day of Fall A Term
Fall (end of full semester)	December: Last Day of Full Semester
Winter	January: Last Day of Term
Spring A (end of first 8 weeks)	March: Last Day of Spring A Term
Spring (end of full semester)	May: Last Day of Full Semester
Summer A (end of first 6 weeks)	July: Last Day of Summer A Term
Summer (end of full semester)	August: Last Day of Full Semester

## Locking Academic History

(after degree has been awarded)

Once a degree has been conferred the academic record of all work contributed to the awarded baccalaureate, master's, or doctoral degree is locked. No course grades may be repeated or replaced for any classes used toward the conferred degree.

The Office of the Registrar takes great care to ensure that each student's academic record is accurate. Any student who believes an error has occurred should immediately bring this to the attention of the Office of the Registrar. Students have one calendar year after a degree is awarded to identify any item on their academic record believed to be in error. After that time the record is considered to be permanent. Please note that grade challenges have a different timetable and must always be directed to the chair of the department which offered the course in question. For details regarding the timetable and process for grade challenges please refer to the student handbook at <http://studentaffairs.eku.edu/studenthandbook> (<http://studentaffairs.eku.edu/studenthandbook/>)

## Diploma and University Certificate Production

Diplomas and University Certificates are produced and mailed to students after all final grades are reviewed and it has been confirmed that all degree requirements have been met. The graduation confirmation process takes several weeks to complete. Therefore, students should expect to receive their diploma 6-8 weeks after the end of finals week. Students who are indebted to the University will not have their transcript or diploma released until the debt is paid. Any questions regarding student financial obligations should be directed to Big E Central.

## Associate Degree Honors With Distinction and With High Distinction

Students earning an Associate Degree are graduated "With Distinction" if they attain a GPA of at least 3.5, but less than 3.7, on all GPA hours attempted at Eastern Kentucky University and if they complete a minimum of 30 GPA credit hours, with standard grading, at Eastern Kentucky University.

GPA credit hours are courses graded using standard grades of A-F. These grades have a numerical value and can be used to calculate a student's GPA. A course with a grade of CR or S has no numerical value and supplies no GPA hours, and cannot count toward the minimum required 30 GPA credit hours.

Students earning an Associate Degree are graduated "With High Distinction" if they attain a grade point average (GPA) of 3.7 or higher on all GPA hours attempted at Eastern Kentucky University and if they

complete a minimum of 30 GPA credit hours, with normal grading, at Eastern Kentucky University.

For purposes of honors recognition, all GPA credit hours attempted at Eastern Kentucky University – including those which are subsequently repeated or bankrupted – shall be included when calculating the GPA used to award academic honors. Because of timing, honors GPA calculations – solely for the purpose of recognition at the commencement ceremony – cannot include the final semester's course work. In-progress hours will be used to attempt to meet the 30 semester hours at Eastern Kentucky University requirement. Calculations for the permanent designation of honors on the diploma and transcript will include the final semester grades.

## Baccalaureate Degree Honors

### Latin Honors: Cum Laude, Magna Cum Laude, Summa Cum Laude

Eastern Kentucky University recognizes graduating baccalaureate degree students who have achieved distinguished academic records by awarding their degree with Latin Honors. There are three levels of Latin Honors: Cum laude ("with praise"), Magna Cum laude ("with great praise"), and Summa Cum laude ("with highest praise"). All students earning Latin honors must take at least 25% (30 GPA credit hours) of their degree applicable course work at Eastern Kentucky University.

GPA credit hours are courses graded using standard grades of A-F. These grades have a numerical value and can be used to calculate a student's GPA. A course with a grade of CR or S has no numerical value and supplies no GPA hours, and cannot count toward the minimum required 30 GPA credit hours.

All GPA credit hours attempted at Eastern Kentucky University (including those which are subsequently repeated or bankrupted) will be used in calculating each Latin Honor grade point average (GPA). Latin honors GPA calculation—for purposes of designating which students may wear a Latin Honors sash at the graduation commencement ceremony—does not include the final semester's course work as these calculations occur weeks before the term has finished. Once a student's final semester has concluded and final grades are available, these grades will be included in the calculations to award the permanent designation of Latin Honors on a student's diploma and transcript.

**Cum Laude:** Students earning Cum Laude must attain an institutional GPA of at least 3.5, but less than a 3.7, on all GPA credit hours attempted at Eastern Kentucky University. Additionally, a minimum of 30 GPA credit hours, with standard grading, must be taken at Eastern Kentucky University.

**Magna Cum Laude:** Students earning Magna Cum Laude must attain an institutional GPA of at least 3.7, but less than a 3.9, on all GPA credit hours attempted at Eastern Kentucky University. Additionally, a minimum of 30 credit hours, with standard grading, must be taken at Eastern Kentucky University.

**Summa Cum Laude:** Students earning Summa Cum laude must attain an institutional GPA of at least 3.9, or higher, on all GPA credit hours attempted at Eastern Kentucky University. Additionally, a minimum of 30 credit hours, with standard grading, must be taken at Eastern Kentucky University.

## Honors Scholars Program

Students are graduated as Honors Scholars if they successfully complete Eastern Kentucky University's Honors Program, satisfy all comprehensive and program requirements for an undergraduate degree from this University, and graduate with an institutional GPA of at least 3.2. Honors Scholars are designated at commencement with a maroon mortarboard.

## Course Types

### Course by Special Arrangement

A Course by Special Arrangement (CBSA) is a course that is a required part of an approved curriculum program but is being offered to a student during a term or at a time when circumstances prevent the course from being a part of the department's regular class schedule. A CBSA will be approved only if it is within the last two semesters of a student's pending graduation, and if the course meets a degree requirement that cannot be fulfilled by any other mechanism, including independent study. Prior to registration, students must file the CBSA Petition. This petition requires the signature/approval of the instructor, program chair, and dean. An independent study course cannot be a Course by Special Arrangement. Tuition and fees for CBSA courses are computed at the same rate as other regular on-campus courses.

### Independent Study Course

Independent study courses, which are distinct from Course by Special Arrangement and special topics courses, are designed to provide an opportunity for a student to pursue a research/study interest not available through any of the courses offered in a program at ECU. To qualify to enroll in an independent study course, students must have a GPA of 2.5 or higher.

Independent study courses must be under the supervision/direction of a faculty member with appropriate qualifications for the course content and must be guided by an approved research or project plan. Independent study courses must follow the prescribed Independent Study protocol and be approved in advance of enrollment. The independent study course must be appropriately designated as such in the *Catalog*. Independent study courses should not be used as a mechanism to teach a course not offered in a given semester or as a substitution for program requirements, though they may, with appropriate approval, fulfill such requirements. Independent study courses are not intended to be a mechanism for enrolling in a course for which a student would otherwise be ineligible. Tuition and fees for independent study courses are computed at the same rate as other regular on-campus courses.

## Service Learning

Courses that have been officially recognized as including service-learning within their curriculum are designated with the letter "S" following the course prefix and number. Service-learning is defined as:

An academic experiential educational method in which students participate in an organized service activity that meets identified community needs and reflects on the service activity in such a way as to:

- gain further understanding of course content,
- develop critical thinking skills, and
- develop an enhanced sense of civic responsibility

Students will be required to participate in at least 5 hours of community service per credit hour of course credit.

## Special Topics Courses

Special topics courses are designed to offer the opportunity for students to study specialized areas within a discipline. These courses are created with normal class enrollment expectations. The topic of study is designated by the course section title, and may or may not vary with each offering. Students may repeat a special topics course (for the purpose of earning additional course credit) only if the specific course title is different with each subsequent enrollment.

## Student Success Seminars

Every student seeking a baccalaureate degree or Associate of Arts Degree in General Studies must complete a 1-3 credit Student Success Seminar.

- Full time students must complete the Student Success Seminar during their first semester.
- Part time students are strongly encouraged to complete the Student Success Seminar during their first semester, and must complete it within their first 18 credits.
- Students who earn a grade of “W,” “F,” or “FN” in a Student Success Seminar must repeat the course the following term.
- Transfer students who have 30 or more transfer credits with normal grading upon admission to EKU may have this requirement waived. (Some majors require all students to take a Student Success Seminar, regardless of transfer status.)

## Writing Intensive Courses

Every student seeking a first baccalaureate degree must successfully complete one writing intensive course following completion of General Education Element 1B. Writing intensive courses may be general education courses as well as major or supporting courses. Students who enter the University with a baccalaureate degree from a regionally-accredited university are exempt from the writing-intensive requirement.

Writing-intensive courses are designated with the suffix “W” following the course prefix and number (e.g., HUM 300W Humanity in the Postmodern Age). W and non-W versions of the same course (e.g., HUM 300W Humanity in the Postmodern Age and HUM 300 Humanity in the Postmodern Age) are considered equivalent for the purposes of satisfying course requirements for prerequisites, major courses, minor courses, and supporting courses. Credit will not be awarded for W and non-W versions of the same course. A previously-taken non-W version of a course will not be used to satisfy the writing intensive baccalaureate degree requirement.

### Writing Intensive Courses Available

Writing intensive course options are listed on each student’s degree audit report. The writing intensive courses available each semester may be viewed via the online schedule by selecting all courses in the “Subject” box and writing intensive courses in the “Attribute” box.

## Declaring a Program of Study Changing Major/Minor/Concentration

Because changing majors generally lengthens students’ time to degree, and thus can significantly increase student debt, students are limited to changing their major only one time per year.

After earning 105 credit hours, students desiring to change their major, or add a minor/concentration/certificate, must secure approval from the dean of the college of their first major, unless the change does not extend time to graduation. A What-If Degree Works Audit with the proposed new major is required to calculate the number of courses needed for graduation and thus document that the new major will not delay graduation. Students should speak with a college advisor, or the Registrar’s Office, for details regarding this process.

Once a student has applied to graduate she/he is expected to follow her/his degree plan that has been certified by a college graduation expert.

Students may declare or change their currently declared major, minor, or concentration, after careful review and advisement by completing the appropriate form and obtaining the written approval of the department chair or advisor of their desired new program. (Read below regarding programs that have specific entrance requirements).

When a major change form is received by the Registrar’s Office it will be processed, and a new advisor will be assigned by the Office of University Advising within 2-5 business days.

Students who request a change of major will be moved into the current program for the desired major, per the Catalog in force at the time the request was received. All students are subject to the University graduation requirements and policies that are listed in this institution’s current catalog.

Some programs of study require specific admission criteria, and have a formalized admission process. These programs require a separate application for admission. Please refer to the program requirements section of this catalog to determine whether a program has a specific admissions processes or criteria.

When declaring a major, all degree-seeking students shall declare as a first major an EKU degree program, or a university certificate if that is the student’s only educational goal.

## Degree Audit

A degree audit is the tool used by EKU to determine degree completion. Degree Works is a degree audit report available to students and advisors online via myEKU (student web and faculty web). This audit lists the requirements for a student’s program and how completed and in-progress courses apply to that program. Degree Works must reflect that program requirements are 100% complete before the student’s degree will be awarded. Faculty and College Advisors are expected to carefully review how Degree Works displays program requirements and provide immediate feedback to reg.dgw@eku.edu should they detect any programming or functional irregularities.

Students should contact their academic advisor if they have questions concerning degree requirements or their Degree Works report.

**Curriculum Guides-Academic Plans:** Curriculum guides for each program are printed in this catalog and part of the Degree Works Academic Planner. All students should create an academic plan in Degree Works,

maintain and follow that plan. To make timely progress toward a degree full-time students are expected to earn at least 15 credit hours per semester.

Colleges will make available to students through appropriate advising any additional non-curricular requirements that apply to the specified major.

## Degree Information and Requirements

### EKU Academic Residency Requirement

A minimum of 25% of coursework applied toward the completion of any major core requirements, minors, and/or ECU certificates must be earned at ECU.

### Catalog

For all graduation requirements, including general education, students will be governed by the Catalog in use at the time they enter the University or declare a new major. Each student has a catalog year associated with their student record, designating the academic year for the *Catalog* dictating their program, General Education, and University graduation requirements. The catalog year for each student may be found on the student's degree audit. If in a subsequent year any graduation requirements change, students may elect to complete the later requirements by requesting the Registrar's Office move them to the current *Catalog*. In certain circumstances, such as accreditation requirements or professional regulations, the Registrar, at the request of the dean of the college or dean of the Graduate School, may move a student to a more current catalog. Such actions would be taken if deemed prudent to protect the student's ability to attain professional licensure and certification. In these circumstances the University will make every effort to assist the student with the transition to the new catalog's curricular requirements.

Students who stop out for more than two years will meet all graduation requirements in place at the time they re-enroll. Students who stop out for fewer than two years may elect to be returned to the graduation requirements in place at the time they declared their major by submitting a request to the Registrar's Office.

### Current University Policy

Student curricular requirements are tied to the associated catalog, however, with regard to policy requirements all students are governed by current University policies that have been approved by appropriate University committees.

### Comprehensive Associate Degree Requirements

To qualify for an associate degree, students must satisfy the following requirements:

1. Complete all requirements in the degree program as established by appropriate University committees.
2. Complete University academic requirements, including basic skills proficiencies in English, reading, and quantitative reasoning; any applicable PCC<sup>1</sup>; general education<sup>2</sup>; and a student success seminar, as established by appropriate University committees for each degree program.
3. Complete a minimum of 60 semester credit hours.

4. Earn a minimum grade point average (GPA) of 2.0 on all college-level work taken at Eastern Kentucky University.
5. Earn a minimum of 15 semester hours through Eastern Kentucky University.
6. Earn the credits applicable to major and supporting degree requirements within eight years prior to the date the degree is awarded. Credits more than eight years old may be used to meet general education, upper division, and free elective areas. The college dean of a student's major may validate individual eight-year-old (or older) coursework as meeting major and/or supporting requirements.

Degree Requirement Notes:

1

The Kentucky PreCollege Curriculum (PCC) is defined and prescribed by the Kentucky Council on Postsecondary Education (CPE). Six hours of the same World Language must be completed within 24 credit hours of enrollment. Applies to students under 21 when first admitted, and/or transferred into ECU fewer than 24 credit hours. See Degree Works to confirm whether a student has a PCC requirement. PCC deficiencies must be remediated within the first 24 hours of enrollment, excluding developmental hours.

2

General Education Requirements for Associate Degrees: Students in associate degree programs must earn a minimum of 15 hours in courses approved for general education. These hours must include ENG 101 Reading, Writing, and Rhetoric and ENG 102 Research, Writing, and Rhetoric or their equivalent. The nine additional hours must include one course in each of the following General Education Elements: 3A, or 3B (Arts and Humanities); 5A, or 5B (Social and Behavioral Sciences); and 2 (Quantitative Reasoning), or 4 (Natural Science with Lab).

### Comprehensive Baccalaureate Degree Requirements

To qualify for a baccalaureate degree, students must satisfy the following requirements:

1. Complete all requirements in the degree program as established by appropriate University committees.
2. Complete University academic requirements, as established by appropriate University committees for each degree program, that includes:
  - a. Basic skills proficiencies in English, reading and quantitative reasoning<sup>1</sup>, and any applicable PCC<sup>2</sup>,
  - b. Student Success Seminar (if applicable)
  - c. A writing-intensive course,
  - d. General Education,<sup>3</sup> and
  - e. The Applied Critical and Creative Thinking (ACCT) requirements<sup>4</sup>.
3. Complete a minimum of 120 semester credit hours, with at least 42 hours at the 300 level or above.<sup>5</sup>
4. Earn a minimum grade point average (GPA) of 2.0 on all college-level work taken at Eastern Kentucky University.
5. Earn a minimum of 30 semester hours through ECU if the student is pursuing a 120 hour degree program. If the degree program sought requires greater than 120 semester hours, the minimum ECU residency credit shall be no less than 25% of the total program hours.<sup>6,7</sup>
6. Earn the credits applicable to the major and supporting degree requirements within eight years prior to the date the degree is

awarded. Credits more than eight years old may be used to meet general education, upper division and free elective requirements, as well as major requirements for the General Studies degree. The college dean of a student's major may validate individual 8-year-old courses to count for non-General Studies major and supporting requirements.

#### Degree Requirement Notes:

1

The Kentucky PreCollege Curriculum (PCC) is defined and prescribed by the Kentucky Council on Postsecondary Education (CPE). Six hours of the same World Language must be completed within 24 credit hours of enrollment. Applies to students under 21 when first admitted, and/or transferred into EKU fewer than 24 credit hours. See Degree Works to confirm whether a student has a PCC requirement. PCC deficiencies must be remediated within the first 24 hours of enrollment, excluding developmental hours.

2

General Education Requirements for Baccalaureate Degrees: The General Education Program consists of 36 hours of course work in six Elements:

1. Communication
2. Quantitative Reasoning
3. Arts and Humanities
4. Natural Sciences
5. Social and Behavioral Sciences, and
6. Diversity of Perspectives and Experiences.

Students must earn the specified number of hours in each of these course categories. See the General Education section in this Catalog for more detailed information about general education requirements.

3

Individual major programs decide which courses or experiences can be used to satisfy the ACCT requirement. Refer to program descriptions in Section 5 of this catalog for more information.

4

Hours Required for a Baccalaureate Degree: The University requires a minimum of 120 semester hours to earn a baccalaureate degree. In most cases this minimum is also the maximum. While there is no upper limit beyond 120 semester hours which may be set as a particular major program's requirements, each program or program change is approved through the University's committee system and any program requiring beyond 120 semester hours will require substantiation of additional requirements.

5

According to AACSB International business accreditation standards, students enrolled in University baccalaureate degree programs, other than those within the School of Business, will not receive credit toward their degrees for more than 25 percent of their undergraduate programs in credit hours in courses offered through the School of Business and/or business courses (courses commonly taught in school of business) transferred from other colleges and universities or taken from other units within Eastern Kentucky University. Students who desire to take business courses are encouraged to enroll in the Business minor.

6

Degree programs offered by the College of Business and Technology have more stringent residency requirements. Please refer to degree requirements in the College of Business and Technology section of this Catalog.

7

The college dean of a student's major may validate individual 8-year-old courses to count for non-General Studies major and supporting requirements.

## Degree Program Definitions

**A. Major (Baccalaureate):** A major is a primary area of study defined by a set of course and/or credit hour requirements within a specified discipline or with a clearly defined multi-disciplinary focus. Thirty semester hours is the minimum requirement for a baccalaureate degree major. A course that meets a core program requirement for a major may also fulfill, at the same time, a University graduation requirement; with the exception that a course cannot be used to meet both a major core requirement and a general education area. At least 25% of the major (which includes core courses, concentrations, and major electives) must be earned at EKU. See the Comprehensive Baccalaureate Degree Requirement section for more details on degree requirements.

**B. Concentrations (Baccalaureate):** A concentration (synonymous with an option, emphasis, specialty or track) represents a collection of courses offering a student the opportunity to develop a focus within the broader area of their major program. There will be a common grouping of courses (a minimum of 21 semester hours) shared by the major core and its associated concentration. The concentration adds onto the major core an additional 12-18 semester hours of specified coursework to develop the desired expertise. Concentrations may, or may not, be a required component of the program of study. Deviations from the 12-18 hour concentration may be granted by the Council on Academic Affairs when unusual program requirements dictate.

**C. Minor (Baccalaureate):** Minors require a minimum of 18 semester hours and at least 25% of all required coursework for the minor must be earned at EKU. A list of specified courses may be added for students seeking a teaching certification extension in the minor. A student may not declare a minor with the same subject matter (course prefix) as their declared major program of study. Students seeking only an associate degree may not declare a minor. The same course credit may be applied for both major core or supporting requirements and a student's minor. A minor course that is a required part of major core cannot also be used to fulfill a general education requirement.

**D. Supporting Courses:** Supporting courses are courses that are outside the degree program that provide necessary skills or knowledge. A course cannot be listed as a supporting course if it is offered by the home department of the degree program, unless it is tied by prefix to a different degree program. Supporting courses that are approved as general education courses may be used to fulfill both supporting and general education requirements.

## Concurrent (Dual Degrees) and Subsequent Degrees

**Concurrent Degrees:** A student may qualify to earn two degrees concurrently (dual degrees) by completing all requirements for both degrees, including major, supporting, and general education requirements. Courses used in one degree program may also be used in the other. The student has the responsibility to file a separate graduation application for each degree being sought. If the two degrees are in the same college, the student must file two applications in the office of the college dean. If they are different colleges, one application must be filed in each dean's office. Please refer to the "Application for Graduation" section of this catalog for more details.

**Concurrent Associate Degrees:** If two 60 credit hour associate degrees are pursued concurrently, a minimum of 75 credit hours must be earned. If one or both of the associate degrees has program requirements in excess of 60 hours, the degree program with the highest number of required hours will be considered the student's first associate degree, and the hours required to earn the second associate degree shall be 25% of the second program's total hours. Students seeking only an associate degree may not declare a minor.

**Concurrent Baccalaureate Degrees:** If two 120-credit-hour baccalaureate degrees are pursued concurrently, a minimum of 150 credit hours must be earned. If one or both of the baccalaureate degrees has program requirements exceeding 120 hours, the degree program with the highest number of required hours will be considered the student's first baccalaureate degree, and the hours required to earn the second baccalaureate degree shall be 25% of the second program's total hours.

**Concurrent Baccalaureate and Associate Degree:** The minimum number of hours required for concurrently earning an associate and a baccalaureate degree is the number required by the baccalaureate degree. Associate degree earners are expected to complete that degree prior to completion of their baccalaureate degree.

**Subsequent Degrees:** Students having earned one degree, either from Eastern Kentucky University or from another regionally accredited institution, may subsequently pursue an additional degree, either associate or baccalaureate, by completing all requirements of the subsequent degree, including major, supporting, and general education requirements. For students who earn their first degree at EKU, hours earned prior to the awarding of a first baccalaureate or associate degree may be counted toward the minimum required to earn a subsequent baccalaureate or associate degree.

Students must earn at least 15 approved semester hours at EKU for an associate degree beyond those required for the earlier degree. A subsequent baccalaureate degree requires at least 30 approved hours earned at EKU beyond those required for the earlier degree.

Students who have completed a previous degree elsewhere and apply to Eastern Kentucky University, should have official transcripts from the institutions previously attended sent to Eastern Kentucky University's Admissions Office.

## Multiple Majors/Minors

Students pursuing baccalaureate degrees other than General Studies may consider more than one major and/or minor. All requirements for the declared major and/or minor must be completed by the time the initial degree is awarded. Associate degrees are not eligible for minors or second/multiple majors.

Students are required to declare a primary degree program (specific baccalaureate degree and first major). This program of study is that which will be recorded on the diploma, and which will determine the degree awarded by the University. A second or additional major represents a further emphasis of study and shall be designated on the student's academic transcript. Earning a second or other major, however, is not to be considered as completion of an additional or distinct degree program.

**Double Majors vs. Dual Degrees:** A student pursuing one degree, but two major areas of study, is said to have a "double major". To complete a double major the student must earn all hours required by the degree program of their first major plus any additional course(s) needed to fulfill only the major and supporting requirements of the second major. A

student who fulfills all requirements for two complete degree programs, earning no fewer than 150 credit hours is said to be a "dual degree candidate". Students who wish to earn two baccalaureate degrees (dual degrees) should refer to the Concurrent Degree policy. Note that associate degrees are not eligible for minors or second/multiple majors.

**Awarding Subsequent Majors/Minors:** EKU does not award a subsequent major/minor/concentration after an initial degree is conferred unless the student completes a subsequent degree program. A student who earns a double major baccalaureate degree may not return to complete a subsequent degree in either of the double major subjects. While multiple majors, minors and certificates earned by a student are formally posted to the student's academic transcript, only the degree earned and one major will be printed on the diploma. Students interested in pursuing multiple majors, minors, certificates and/or concentrations should contact the Office of Academic & Career Services, a college advising office, or the department of interest for additional information.

## Enrollment and Class Schedule Academic Load

The limitations below apply to all enrollments or combinations of enrollments for the term specified, including campus classes, regional campus classes, online study, and enrollments at other institutions. The Registrar will not record credits beyond these maximums.

**Enrollment in Fall/Spring Terms:** To make timely progress toward their degree, **full-time students are expected to earn 15-16 credit hours each fall/spring semester or 30 credit hours per academic year (Fall/Winter/Spring/Summer)**. Full-time student status requires a minimum of 12 credit hours during a fall or spring term. Students carrying fewer than 12 credit hours are considered part time. A student who has established a superior record may be permitted to enroll for more than 18 hours by the dean of the college of the student's first major. The absolute maximum load for an undergraduate student is 21 credit hours.

**Enrollment in Summer Term:** For enrollment verification and financial aid during the summer semester, an undergraduate student must be registered in at least 12 credit hours to be considered a full-time student. Enrolling in more than 12 credit hours is restricted to students who have established a superior academic record. Permission to enroll in more than 12 credit hours during the summer must be granted by the dean of the college of the student's first major. The absolute maximum summer enrollment is 15 hours.

**Enrollment in Winter Term:** Winter term is a 6 week session falling between the fall and spring semesters. Winter term classes vary, ranging from 1 to 4 credit hours. Because of the condensed nature of winter term classes students are limited to attempting an absolute maximum academic load of 6 credit hours in a single winter term session.

**Financial Aid and Enrollment Verification:** Please note that, for financial aid, enrollment verification, and loan consideration, full-time status requires a minimum of twelve semester hours in any academic term.

Note: Students who are not on good standing academically have lower maximum enrollment limits. Please refer to the section on Minimum Academic Standards.

## Class Schedule Changes

**Dropping a Class - 1st Week of Class:** If students wish to add courses to their schedule, they must do so by the date published in the Colonel's

Compass for that term. If a student drops a course by the end of a term's Schedule Change Period (add/drop), the course will not appear on the student's grade report or transcript. Course drops are executed online through myEKU.

**Late Enrollment** - Students who wish to add a class to their schedule after the published deadline to do so, must secure the permission of the instructor of the course, the department chair, and the dean of the college offering the course. The student shall complete the Request for Late Enrollment and submit it to the instructor of the class. If enrollment is approved, the instructor passes the form onto the appropriate department office for further processing. The Request for Late Enrollment form is available on the Registrar's website.

**Note:** University holds preventing registration do not constitute an excuse for attending class without being officially enrolled. Students are expected to communicate with the office which placed the hold on their account and secure permission to be enrolled – **before** the deadline to add a class online.

## Withdrawing from a Class

See Withdrawal section in this catalog.

## Final Examinations

If a student is scheduled for more than three final examinations on the same day, the student may request, through the college dean, that the fourth examination be rescheduled.

## Fee for Initial Registration After Classes Begin

Students whose initial registration for the term does not occur until on or after the first day of class will be assessed a non-refundable \$50 late initial registration fee.

## General Education Requirements

The mission of general education is to promote learning that is central to the intellectual pursuits associated with our educational programs and to enable students to make informed choices about matters of public and personal significance in a diverse, democratic society and global community. The general education program helps students to become informed, independent thinkers by developing competencies in communication, quantitative analysis, and critical thinking by helping them understand and appreciate the diversity of culture, individuals, the natural environment, and the global society. Courses that are used to satisfy the program's Major Requirements cannot also be used to satisfy General Education requirements.

The General Education Program consists of 36 hours of course work in six elements:

1. Communication,
2. Quantitative Reasoning,
3. Arts and Humanities,
4. Natural Sciences,
5. Social and Behavioral Sciences,
6. Diversity of Perspectives and Experiences.

Students must earn the specified number of hours in each of these Elements.

Some courses may be listed in more than one General Education category. However, no single course can be used to satisfy more than one General Education requirement.

## Changing General Education Requirements

The following General Education program is highly integrated with University requirements, therefore students moving into the newest catalog will be held to these General Education and University graduation requirements, as well as major requirements as listed in this Catalog.

Students will have one catalog year governing all graduation conditions. To see how a Catalog change will impact their progress toward degree, students are expected to first run a "What-If" Degree Works audit and study the impact of a Catalog change. Once a student has moved forward to a new catalog year they cannot move back to a previous year.

The courses listed award three hours of credit, unless a number appears in parentheses following the course name. This number represents the hours awarded for such courses. Courses with an "L" are laboratory classes and one credit hour unless otherwise noted. Course numbers followed by (\*) have prerequisites or other restrictions on enrollment. Refer to Course Descriptions in Section Seven of this Catalog for specific restrictions.

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Element 1: Communication

### 1A Written Communication

Three hours required.

Code	Title	Hours
ENG 101	Reading, Writing, and Rhetoric	3
ENG 101R	Reading, Writing, and Rhetoric	4
ENG 101RZ	Rding Wrting & Rhtrc Support	4

ENG 101Z	Reading, Writing, & Rhetoric	3
ENG 105	First Year Writing Seminar	3,6
HON 102	Honors Rhetoric	6
HON 103	Honors Communication	3

## 1B Written Communication

Three hours required.

Code	Title	Hours
ENG 102	Research, Writing, and Rhetoric	3
ENG 102R	Research, Writing, and Rhetoric	4
HON 102	Honors Rhetoric	6
HON 103	Honors Communication	3

**Note:** Students earning "A" or "B" in ENG 105 First Year Writing Seminar will earn six hours of credit, three hours of which will be applied to category IB, thus completing Elements 1A & 1B. Those earning "C" or "D" will earn three hours credit, completing only Element 1A, and will then take ENG 102 Research, Writing, and Rhetoric.

## 1C Oral Communication

Three hours required.

Code	Title	Hours
CMS 100	Introduction to Human Communication	3
CMS 100Z	Intro to Human Communication	3
CMS 210	Public Speaking	3
CMS 210Z	Public Speaking	3
CMS 215	Business and Professional Presentations	3
EES 250	Basic Social Intelligence Skills	3
HON 102	Honors Rhetoric	6
HON 103	Honors Communication	3

## Element 2: Quantitative Reasoning

Three hours required.

Code	Title	Hours
HON 304W	Honors Seminar in the Mathematics Sciences:____	3
MAT 105	Mathematics with Applications	3
MAT 106	Applied Mathematics:____	3
MAT 110	Intro to Algebraic Functions	3
MAT 112	Algebra with Applications	3
MAT 112A	Algebra: Polynomials	1.5
MAT 112B	Algebra: Functions & Matrices	1.5
MAT 114	College Algebra	3
MAT 120	Trigonometry	3
MAT 122	Precalculus Mathematics	5
MAT 211	Applied Calculus	3
MAT 234	Calculus I	4
PHI 101	Logic and Critical Reasoning	3
PHI 101R	Logic and Critical Reasoning (Supported)	4
STA 215	Introduction to Statistical Reasoning	3
STA 270	Applied Statistics	4

## Element 3: Arts and Humanities

Six hours required.

Select three hours in Arts courses listed in 3A and three hours in Humanities courses listed in 3B.

### 3A Arts

Three hours required.

Code	Title	Hours
ART 200	Art Appreciation: Orientation	3
BEM 350	Cinema History I	3
BEM 351	Cinema History II	3
ENG 335	Modern Drama	3
ENG 335W	Modern Drama	3
ESS 200	Dance and Culture	3
HON 307W	Honors Seminar in the Arts:____	3
HUM 124	Humanities and the Search for Meaning	3
HUM 226	The Search for Meaning: The Ancient World	3
HUM 228	The Search for Meaning: The Modern World	3
HUM 300	Humanity in the Postmodern Age	3
HUM 300W	Humanity in the Postmodern Age	3
MUH 171	Music Appreciation	3
MUH 271	Jazz History	3
MUH 272	Music Literature	3
MUH 273	Survey of American Popular Music	3
PHE 200	Dance and Culture	3
THE 100	Introduction to the Theatre	3
THE 135	Acting I	3
THE 390	Theatre History I	3
THE 391	Theatre History II	3

### 3B Humanities

Three hours required.

Code	Title	Hours
AFA 201	The African Experience	3
AFA 201W	The African Experience	3
APP 365	Appalachian Literature	3
APP 365W	Appalachian Literature	3
ENG 110	Introduction to Literature	3
ENG 208W	Literature and the Environment	3
ENG 210	Enjoying Literature	3
ENG 210W	Enjoying Literature	3
ENG 211	Survey of World Literature I	3
ENG 211W	Survey of World Literature I	3
ENG 212	Survey of World Literature II	3
ENG 212W	Survey of World Literature II	3
ENG 299W	Research in History & English	3
ENG 365	Appalachian Literature	3
ENG 365W	Appalachian Literature	3
FCC 210	Topics in Culture:____	3
FCC 220	French Culture and Civilization	3

FCC 222	German Culture and Civilization	3
FCC 226	Hispanic Culture and Civilization	3
FCC 227	Japanese Culture and Civilization	3
HIS 299W	Research in History & English	3
HON 101	The Examined Life	3
HON 102	Honors Rhetoric	6
HON 308W	Honors Seminar in the Humanities:____	3
HUM 124	Humanities and the Search for Meaning	3
HUM 226	The Search for Meaning: The Ancient World	3
HUM 228	The Search for Meaning: The Modern World	3
HUM 300	Humanity in the Postmodern Age	3
HUM 300W	Humanity in the Postmodern Age	3
PHI 110	Beginning Philosophy	3
PHI 110W	Beginning Philosophy: Writing Intensive	3
PHI 130	Beginning Ethics	3
PHI 130S	Beginning Ethics	3
PHI 240	Philosophy of Religion	3
PHI 240W	Philosophy of Religion: Writing Intensive	3
PHI 300	Greek and Roman Philosophy	3
PHI 300W	Greek & Roman Philosophy: W	3
PHI 320	Modern Philosophy	3
POL 250	Introduction to Political Philosophy	3
REL 301	World Religions	3
REL 301W	World Religions: Writing Intensive	3
THE 390	Theatre History I	3
THE 391	Theatre History II	3

### 3AB

Code	Title	Hours
HUM 124	Humanities and the Search for Meaning	3
HUM 226	The Search for Meaning: The Ancient World	3
HUM 228	The Search for Meaning: The Modern World	3
HUM 300	Humanity in the Postmodern Age	3
HUM 300W	Humanity in the Postmodern Age	3

## Element 4: Natural Sciences

Six hours required.

Select two courses from the list below that have different course prefixes.

Code	Title	Hours
ANT 201	Introduction to Biological Anthropology	3
AST 130	Introductory Astronomy	3
AST 133	Astronomy Transition Lab	1
AST 135	Introductory Astronomy	3
AST 335	Stars, Galaxies, & Cosmology	3
BIO 102	Inquiry Biology for Teachers	3
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
CHE 100	Inquiry Chemistry for Middle School Teachers	3
CHE 101	Introductory Chemistry	3
CHE 101L	Introductory Chemistry Lab	1
CHE 105	Chemistry for the Health Sciences	3

CHE 105L	Health Science Chemistry Lab	1
CHE 111	General Chemistry	3
CHE 111L	General Chemistry Lab I	1
FMT 140	Introduction to Fermentation	4
GEO 110	Environmental Geography	3
GEO 210	Introduction to Physical Geography	3
GLY 102	Earth Science for Elementary Teachers	3
GLY 104	The Ocean World	3
GLY 107	Gold and Diamonds	3
GLY 108	Earthquakes and Volcanoes	3
GLY 109	Great Moments in Earth History	3
HON 317	Honors Seminar in the Natural Sciences:____	3
PHY 101	Conceptual Physics	3
PHY 102	Inquiry Physics for MS Teachers	3
PHY 131	College Physics I	5
PHY 132	College Physics II	5
PHY 201	University Physics I	5
PHY 202	University Physics II	5

## Element 5: Social and Behavioral Sciences

### 5A Historical Perspective

Three hours required.

Code	Title	Hours
ANT 200	Archaeology and Human Cultures	3
HIS 100	World Topics to 1500:____	3
HIS 101	World Topics Since 1500:____	3
HIS 102	American Civilization to 1877	3
HIS 103	American Civilization Since 1877	3
HIS 204W	Historical Inquiry:____.	3
HON 310W	Honors Seminar in History:____	3
MSL 303	American Military History	3
POL 101	Introduction to American Government	3
POL 212	Introduction to Comparative Politics	3

### 5B Social and Behavioral Science

Three hours required.

Code	Title	Hours
ANS 200	Introduction to Animal Studies	3
ANT 120	Introduction to Cultural Anthropology	3
APP 200	Introduction to Appalachia	3
BEM 200	Mass Media and Society	3
BEM 200W	Mass Media and Society	3
CMS 200	Interpersonal Communication	3
COM 200	Mass Media and Society	3
COM 200W	Mass Media & Society	3
CRJ 101	Introduction to Criminal Justice	3
ECO 120	Economic Reasoning and Issues	3
ECO 130	Contemporary Economic Problems	3
ECO 230	Fundamentals of Microeconomics	3

ECO 231	Fundamentals of Macroeconomics	3	ENG 360	Literatures of Africa	3
GEO 100	Regions and Nations of the World	3	ENG 361	African-American Literature	3
HEA 216	Introduction to Public Health	3	ENG 362	North American Native Literature	3
HON 301	Self and Community	3	ENG 364	Women's Literature	3
HON 312W	Honors Seminar in the Social and Behavioral Sciences:___	3	ENG 365	Appalachian Literature	3
POL 100	Principles of Politics and Government	3	ENG 365W	Appalachian Literature	3
POL 100S	Principles of Politics & Govt	3	ENG 366	Queer Theory and Literatures	3
POL 101	Introduction to American Government	3	FLS 101	Language Topics:___	3
POL 212	Introduction to Comparative Politics	3	FLS 102	Language Topics:___	3
POL 220	Introduction to World Politics	3	FRE 101	Conversational French I	3
POL 250	Introduction to Political Philosophy	3	FRE 102	Conversational French II	3
PSY 200	Introduction to Psychology	3	FRE 201	Intermediate Conversational French I	3
PSY 200W	Introduction to Psychology: Writing Intensive	3	FRE 202	Intermediate Conversational French II	3
PSY 200Z	Introduction to Psychology	3	GER 101	Conversational German	3
PSY 280	Lifespan Developmental Psych.	3	GER 102	Conversational German II	3
PSY 280W	Lifespan Developmental Psychology: Writing Intensive	3	GER 201	Intermediate Conversational German	3
SOC 131	Introductory Sociology	3	GER 202	Intermediate Conversational German II	3
SOC 235	Social Problems	3	HEA 310	Introduction TO Global Health	3
SWK 310	Social Welfare Policy History	3	HIS 205	The Marginalized in History:___	3
			HON 320W	Honors Seminar in Diversity of Perspectives and Experiences:___	3
			HUM 360	Topics in Non-Western Traditions: ___	3
			JPN 101	Conversational Japanese I	3
			JPN 102	Conversational Japanese II	3
			JPN 201	Intermediate Japanese I	3
			JPN 202	Intermediate Japanese II	3
			LAT 101	Beginning Latin I	3
			LAT 102	Beginning Latin II	3
			POL 356	African American Political Thought	3
			POL 373	Politics of Development in Appalachia	3
			REL 320	Judaism	3
			REL 335	Islam	3
			REL 340	Religions of India	3
			REL 345	Religions of China and Japan	3
			REL 350	Buddhism	3
			SED 104	Special Education Introduction	3
			SOC 135	Living in a Diverse World	3
			SOC 205	Sexualities and Social Issues	3
			SOC 399	Gender and Society	3
			SOC 400	Race and Ethnicity	3
			SPA 101	Conversational Spanish I	3
			SPA 102	Conversational Spanish II	3
			SPA 105	Accelerated Spanish I	6
			SPA 201	Intermediate Conversational	3
			SPA 202	Intermediate Conversational Spanish II	3
			SPA 205	Accelerated Spanish II	6
			VTS 200	Intro to Veterans Studies	3
			VTS 300	Veterans in Society	3
			WGS 201	Intro to Women & Gender Studies	3
			WGS 205	Sexualities and Social Issues	3
			WGS 364	Women's Literature	3

## Element 6: Diversity of Perspectives and Experiences

Six hours required.

(Foreign Language course will also meet PCC language requirement.)

Select any two courses from the list below:

Code	Title	Hours
AFA 200	Exploring Africa Through Play	3
AFA 201	The African Experience	3
AFA 201W	The African Experience	3
AFA 202	The African American Experience	3
AFA 202W	The African American Experience	3
AFA 356	African American Political Thought	3
AFA 360	Literatures of Africa	3
AFA 361	African American Literature	3
AFA 400	Race and Ethnicity	3
ANT 330	American Indians	3
APP 200	Introduction to Appalachia	3
APP 365	Appalachian Literature	3
APP 365W	Appalachian Literature	3
APP 373	Politics of Development in Appalachia	3
ASL 101	American Sign Language I	3
ASL 102	American Sign Language II	3
ASL 225	Introduction to Deaf Studies	3
CDF 232	Identity and Sexuality	3
CHN 101	Conversational Chinese I	3
CHN 102	Conversational Chinese II	3
CMS 375	Intercultural Communication	3
EDC 106	Culturally Responsive Perspectives	3
EMS 200	Exploring Africa Through Play	3

WGS 366	Queer Theory and Literatures	3
WGS 399	Gender and Society	3

If Foreign Language is used to meet the requirement, it is strongly recommended that students take two courses in the same language. A student with a foreign language PCC need must take two terms of the same language.

## Grades

**Auditing Courses:** A student may audit a course (i.e., take it without credit) with the permission of the instructor and the dean of the college involved if the course has been approved to be taken Audit. The Registrar's Office can verify whether a course is approved to be taken as Audit. After registering for the course as usual, students must obtain the "audit a course" form from the Registrar's Office, obtain the appropriate signatures and return it to that office, Whitlock 239. Fees are the same as for courses taken for credit. Students enrolled for audit must comply with the attendance policy of the instructor or no course entry will be made on their academic record.

**Changes to Transcript:** Once a degree has been posted to the transcript, changes will not be made to courses or grades that were earned prior to the posting of the degree. Students have one calendar year in which to bring to the Registrar's attention an error on their transcript. This does not include any challenge based upon an unsatisfactory grade. Refer to the student handbook for the appropriate process for grade challenges (<http://studentaffairs.eku.edu/studenthandbook> (<http://studentaffairs.eku.edu/studenthandbook/>)).

**Credit/No Credit (CR/NC) Coursework:** The grade of "CR" (credit) is awarded as recognition of appropriate scores on AP, IB, CLEP or other proficiency exams and prior learning assessment. International coursework transferred to EKU will be recorded as CR/NC. Existing EKU students who complete an EKU-approved/sponsored study abroad program, and have a completed Study Abroad Pre-Approval form on file in the EKU Office of International Student and Scholar Services, may receive a regular letter grade for the international coursework taken while participating in the sanctioned study abroad experience.

Undergraduate course work with CR grades may be used to fulfill major, minor, certificate, supporting program, and/or concentration area requirements, (unless explicitly prohibited by the appropriate academic department), to a maximum of 20% of the credit hours required for each component of an academic program's major. Exceptions to this limit may be authorized by the Dean/Associate Dean of the college offering the program. There is no limit to the number of CR credit hours used to meet general education areas or to serve as free electives.

**Previous Developmental College Readiness Coursework (Zero-Level)<sup>1</sup>:** Prior to Fall 2018, developmental courses were numbered 090 or 095. These are institutional-credit courses. Credit hours for a zero-level course do not apply toward graduation; however, zero-level courses do count toward enrollment status for purposes of financial aid eligibility and full-time student status. Grades for 090 and 095 developmental courses include A, B, C, and F.

1

MAT 098 is a zero-level course but not a developmental course

**Equivalent Courses:** Equivalent or cross listed courses are those in which credit will be earned for just one course. Equivalent courses may or may not be cross-listed in the schedule. Should there be a second

enrollment in an equivalent or cross listed course, the student will either be disenrolled from the course or have credit removed at the end of the semester. Upon a change of major, permission for enrollment and credit for the second course, when required in the new major, must be obtained in advance from the college dean of the new major. In that instance, credit for the first taking will be removed.

**Failure Due to Academic Dishonesty (FX):** This grade is a sanction for repeated violations of the Academic Integrity (AI) Policy. The "FX" grade denotes failure in the course due to academic dishonesty and is a permanent grade reflected on the student's transcript. A student assigned an "FX" grade will not be permitted to drop or withdraw from the course. A student who wishes to repeat a course in which an FX grade was applied may do so for the purpose of rehabilitating their GPA. The course may only be repeated at EKU. Repeating an FX course will not remove the FX grade from the student's transcript.

**Grade Appeals:** If a student believes that the final grade assigned in a course is unjustified, that student should consult the instructor seeking a satisfactory explanation. If, after doing so, the student still feels that the grade is unjustified, the student may appeal the grade, in writing, to the department chair. A written appeal must be filed with the chair within 30 days after the beginning of the next semester (exclusive of summer session). Refer to the University Handbook for Students for the complete policy concerning grade appeals.

**Grade Changes:** All grade changes must be made by the following deadlines: for fall semester grades—the last day of regular classes (prior to finals week) for the following spring semester; and for spring and summer semester grades—the last day of regular classes (prior to finals week) for the following fall semester.

**Grade Point Average (GPA):** The GPA is a calculation of the sum of total quality points earned, divided by the total attempted course credits. Quality points are determined by multiplying the numerical value for each grade earned, times the credit hours for the course.

Each student has an institutional GPA reflecting their overall academic performance, as well as a term GPA indicating achievement for the current semester. Grades for all non-zero level EKU and transfer courses are included in a student's overall GPA calculation. The GPA is used to measure a student's academic standing. Successful completion of any degree or certificate program requires a minimum of a 2.0 overall as well as institutional GPA. The official EKU GPA is truncated at two decimal places; GPAs are never rounded numbers.

Each student can view their GPA through their secure online myEKU self-service account. In myEKU the GPA appears on the Official Grade Report, the student transcript, and on each student's Degree Works degree audit. Each student is expected to monitor their GPA through these sources. Note that a separate GPA calculation is done for determining University graduation honors (also referred to as Latin Honors). Refer to the Latin Honor section of this catalog for rules regarding Latin Honors GPAs.

**Incomplete Grades:** Instructors may assign an incomplete grade "I" to students who have satisfactorily completed at least 60% of a course but are unable to complete the course due to extenuating circumstances. An "I" grade is never appropriate as a midterm grade. Instructors who assign an "I" grade must provide an Incomplete Grade Agreement within 15 university business days.

**Incomplete Grades Blocking Graduation:** A degree cannot be awarded to a student with any incomplete EKU courses on their record. Any student who is a pending graduate with unresolved EKU incomplete

grades ("I") will be given the choice of either accepting an "F" for the course (or "NC" for unresolved "IP" grades) or being deferred to the next term for graduation consideration. All incompletes for students pending graduation must be resolved before their published degree conferral date.

**In-Progress Grades:** Instructors may assign a grade of "IP" in certain approved courses in which it might reasonably take students more than a single semester to complete all requirements. A student assigned an "IP" grade for internship, practicum, or self-paced courses must complete requirements within the calendar year after the "IP" is awarded to receive credit. If requirements are not completed by the deadline, the Registrar will change the "IP" grade to "NC" (**no credit**), and the student must register again for the course to receive credit.

**Incomplete Grade Agreement:** When a student has extenuating circumstances that impede him/her from completing a course, an incomplete grade may be awarded as a temporary final grade. The incomplete grade cannot be used simply because a student has failed to complete the work in the course or as a means of raising the student's grade by doing additional work after the grade report time.

Students must request an incomplete grade from the faculty member prior to the last day of class when a student wishes to pursue an incomplete grade. If the instructor agrees that the student has extenuating circumstances beyond their control and the instructor agrees to assign an incomplete grade, the instructor must complete an Incomplete Grade Agreement detailing all outstanding assignments and/or conditions needed to complete the course, and a due date for each assignment. An incomplete grade may not be given as a midterm grade. Any student given an incomplete is expected to have satisfactorily completed at least 60% of the course.

The following procedure applies when an instructor has agreed to assign a grade of "I" for students who are unable to complete the course because of extenuating circumstances.

1. On the Incomplete Grade Agreement, the instructor will identify all outstanding assignments and/or other conditions needed to complete the course, and due dates for each assignment.
2. Faculty are strongly encouraged to give students the shortest reasonable time period in which to complete the work. The longest possible time period is the end of the next regular semester (fall/spring); however, typically it benefits students to complete work before they begin classes the next semester.
3. The Incomplete Grade Agreement must be signed by the faculty member, student, chair of the department offering the course, and dean of the college offering the course. Student approval of the terms of the Incomplete Agreement can be submitted electronically, and attached to the form. Chairs should assure that the Agreement includes reasonable due dates for completing the work, and all signatures.
4. The Incomplete Grade Agreement must be received by the Registrar's Office no later than 15 university business days past the deadline for final grade submission. While the faculty will be able to submit the "I" grade through the online grade submission process, any "I" grade that is not accompanied by an Incomplete Grade Agreement within 15 university business days of the advertised final grade submission deadline will be converted to an "F"
5. Outstanding work must be completed by the student and a Grade Change form must be submitted by the instructor to the Registrar's Office by the deadline noted on the Incomplete Grade Agreement.

If a grade change is not submitted by the established deadline, the incomplete will automatically default to a failing ("F") grade.

6. If, due to extenuating circumstances, a student is unable to complete the contracted course work to fulfill the incomplete course by the deadline on the Incomplete Grade Agreement, the student has the option of requesting a one-time, one semester extension to the incomplete deadline. The student must initiate the request through the instructor before the original deadline. Approval of the extension of an incomplete grade is not automatic and depends on the student's unique circumstances.

**Letter Grades:** Grades, which are represented by letters, are given point values as indicated:

Grade	Meaning	Grade Points per Hour
A	Excellent	4.00
B	Good	3.00
C	Average	2.00
D	Poor	1.00
F	Failure	0.00
FN	Failure-Student Stopped Attending Class	0.00
FX	Failure-Academic Dishonesty	0.00
I	Incomplete	0.00
IM	Incomplete Due To Military Activation	0.00
P	Passing	0.00
S	Passing	0.00
U	Failure <sup>1</sup>	0.00
UN	Failure <sup>1</sup> -Student Stopped Attending Class	0.00
W	Withdrawal (Official)	0.00
WM	Withdraw Due To Military Activation	0.00
AU	Audit	0.00
CR	Credit Only	0.00
IP	In Progress	0.00
NC	No Credit	0.00
NR	Not Reported	0.00

<sup>1</sup>

FN/UN: Students who stop attending/participation in online courses and do not resume participation have unofficially withdrawn from the class. This act may have significant financial aid repercussions. EKU is required by the U.S. Department of Education to provide a last date of attendance/participation for such students.

Throughout this Catalog, specific grade requirements are to be interpreted precisely as stated. Thus, if a requirement specifies that a grade of at least "C" is required, a "C-" will not satisfy the requirement. If it is intended that "C-" is to be allowed, "C-" will be listed rather than "C." This applies to all specific grade requirements.

The grade point average (GPA) is based on those courses in which a student earned grades of "A," "B," "C," "D," "F," or "U."

**First-Time Student Mid-Term Grade Review:** See Academic Standards.

**Submission of Mid-Term Grades:** Faculty will provide mid-term grades via the Banner (myEKU) system for all students in undergraduate-credit, full-semester courses by the end of the eighth week. In the case of non-standard courses, faculty will enter mid-term grades by the mid-point of the course and before the last day to withdraw from the course, as published on the Colonel's Compass.

Mid-term grades are not required for the following types of classes: non-gradable laboratory sections, co-op, practicums, and internships.

**Military Activation:** A student who is called to active duty or whose spouse/legal guardian is called to active duty may be unable to complete courses in which they enrolled. If military activation affects the ability of a student to complete a course, the University provides several options, including withdrawal from the course and/or University or taking an incomplete and completing the course(s) following completion of active duty.

A student who volunteers for military service during a semester makes the decision to join the military instead of being a student, and does so while the semester is in progress, (instead of completing the semester and then joining), is not eligible for Military Withdraw, Military Incomplete, or to receive a grade early in the semester. The spouse of a student who volunteers for military service and cannot complete a semester will not be eligible for Military Withdraw, Military Incomplete, or to receive a grade early in the semester.

Students with military status (Active, Reserves, National Guard) at the beginning of the semester, or spouses of such students, finding it necessary to leave the University because of required active military duty must complete one (1) of the following:

**Option 1 – Receive a Grade**

1. When military activation occurs after the 12th week of the semester, the instructor has the option of assigning the student a grade in the class based upon work completed. That grade would be submitted during normal final grade submission, and no additional work would be required of the student.
2. The request for assignment of a grade based on coursework completed must be made in writing and must be approved by the Chair of the Department and the Dean of the College in which the course(s) is offered. A copy of activation papers must be attached.

**Option 2 – Receive an Incomplete Due to Military Activation**

1. The affected student will petition the faculty members to request an assignment of a grade of "IM" in course(s) currently enrolled.
2. If the instructor feels that the portion of the semester remaining, and volume of uncovered material is such that it can be made up in a reasonable amount of time and effort, a grade of "Incomplete for Military Activation" may be given.
3. The instructor completes an Incomplete Grade Contract and notes on the contract that this is due to military activation. The student shall provide a copy of the military orders and the instructor must ensure that a copy of the student's military orders is attached to then Incomplete Grade Contract. Without a copy of these orders the student cannot receive the "Incomplete for Military Activation" grade.
4. The Incomplete Grade Contract shall be processed as normal.
5. Once the Registrar's Office receives a copy of the military orders an "IM" grade will be recorded.

6. The student has two (2) years from the date of military discharge to complete an "IM" grade. The student, upon completion of active military duty, must follow up with the faculty member. If the faculty member is no longer with the University or is on leave from the University, the student should contact the Department Chair for determining how to fulfill the Incomplete Grade Contract. If the student does not make contact within 2 years of leaving the University, the "IM" turns to a "W."
7. Upon completion of coursework, the instructor will submit a change of grade form.

**Option 3 – Receive a Military Withdrawal from the Course or from the University**

1. Students choosing to withdraw from specific courses or from the University must send a letter requesting a withdrawal and enclose a copy of the military activation notification. The letter must include the following information:
  - Student name and Student EKU ID Number
  - A statement that the student wishes to withdraw completely from the University **or** listing the individual courses for withdrawal.
  - Student's signature (mandatory) and the date
2. The Officer staff will process the withdrawal which also triggers a 100% refund in all tuition and course fees. Room and board fees will be prorated.
3. If a student requests an incomplete and the faculty declines to grant an "IM," then the student will have to withdraw.

For additional information regarding Military Incomplete status please see the Military Activation Web site at: <http://www.registrar.eku.edu/registration/military/>.

**Pass-Fail ("P" - "F") Option:** The Pass-Fail option encourages students to take courses they might otherwise avoid because of lack of background or concern for lowering their grade point average (GPA). Not all courses are approved to be taken Pass-Fail. The Registrar's Office will verify the course is approved to be taken as Pass-Fail.

Students who have earned 30 or more semester hours of credit with a minimum GPA of 2.0 may choose the Pass-Fail ("P" - "F") option for a total of 15 hours of free electives. These hours must be exclusive of general education, major, minor, and other course requirements for graduation. Eligible courses must belong exclusively to the category, free electives. Hours passed under the Pass-Fail option will not be used in the computation of GPA's; however, hours failed ("F") will be used.

Students may choose the Pass-Fail option for one course per semester with a maximum of five credit hours per semester. Students may repeat a course using the Pass-Fail option only if the previous taking was also Pass-Fail.

Students may select the "Pass-Fail" option by completing the Audit/Pass-Fail registration form, available from the Registrar's Office. Students may change to or from the Pass-Fail option by the date specified each semester in the Colonel's Compass. The student must submit to the Registrar's Office the completed form as authorization to change their registered course to Pass/Fail.

**Repeating Courses:** Students may repeat college-level courses. In those courses, the highest grades earned will replace a lower grade in calculations of the student's term and institutional GPA. This grade

replacement occurs irrespective of whether the lower grade was earned in the original taking of the course or in a repeat enrollment.<sup>1</sup>

The repeated course and grade will still appear on the transcript but with a notation indicating whether the grade is included in, or excluded from, the student's GPA. If a student attempts to repeat a course and replace the grade but then withdraws from the course, that course attempt will not be counted among those for which grade replacement is available.<sup>2</sup>

Students who repeat a course in which they earned a failing grade, and fail the course again, will have the most recent failing grade included in the GPA.

A student may enroll in the same course for a third time (second repeat) only under extraordinary circumstances and with permission of the dean of their major. Students seeking permission for a third enrollment shall first meet with an academic or college advisor to review why they have not previously been successful in the course, and to assess whether the student is in an appropriate major.

For GPA calculation, a grade of "S," "CR," "NC" or "P" will not replace a grade of any "C," "D," "FN," "F" or "FX" (earned in normal grading) grades. A "P" will replace an "F" only when the "F" was earned under the Pass-Fail option. An "S" will replace a "U" or "UN" when earned under the Satisfactory-Unsatisfactory grading option.

1

Some professional programs (e.g. Nursing and Occupational Science) have licensure, regulation, and accreditation requirements with restrictive time limitations for applying a course toward a degree. In those programs the best grade for a course may be excluded because it is outside the required time frame. Students should speak with a major advisor or refer to the relevant portion of this catalog to determine if such time restriction apply to any required course for their major.

2

Some courses may not allow the best grade to stand if the student has been required to repeat a corequisite lecture, clinical, or lab experience. In those situations it is the most recent grade earned from both co-requisite courses that will be used to calculate the term and institutional GPA. Courses with these requirements will be identified as such in individual course descriptions found in the back of this catalog.

**Satisfactory-Unsatisfactory ("S" - "U") Grading System:** Some courses are approved to be taught exclusively on a "Satisfactory" ("S") or "Unsatisfactory" ("U") basis. Each student enrolled in the class will receive either a grade of "S" or "U." Hours passed under the Satisfactory-Unsatisfactory option will not be used in the computation of GPA's; however, hours failed ("U") will be used.

## Non-Traditional Academic Credit

Eastern Kentucky University (EKU) awards credit in transfer for undergraduate courses completed at colleges and universities whose accreditation is recognized by the U.S. Department of Education and other institutions/organizations with which the University has a recorded Academic Agreement. Additionally, EKU awards credit earned by examinations that meet EKU standards, credits for certain types of military experiences, and credit based on portfolio review.

## Credit-By-Examination

Credit by examination is an approved method to demonstrate proficiency in course content areas. Students may earn academic credit by

examination in certain undergraduate courses. Following are the conditions which apply to receiving credit by examination credit:

**Eastern Kentucky University credit-by-examination may be earned through any of the following methods:**

- College Level Examination Program (CLEP®)
- Advanced Placement Program
- International Baccalaureate Credit
- Departmental Examinations
- DANTES (Defense Activity for Non-Traditional Educational Support)

**General Information Regarding Credit by Examination:**

- Only admitted and active degree seeking EKU students may have credit by examination recorded onto an EKU transcript.
- Academic credit earned by external examinations and challenge tests (such as AP, IB, CLEP®) shall not be considered as credit earned at EKU and will not apply toward the residency credit requirement for an associate or baccalaureate degree.
- Credit awarded through credit by examination, which is general in nature and/or not course-specific has no inherent guarantee of meeting EKU degree requirements since these are program and college specific decisions.
- Credit earned by examination is recorded as "CR" (no letter grade); it has no effect upon the overall GPA.
- Special fees are assessed for credit-by-examination and must be paid prior to taking an examination.

**Examinations Completed Prior to Admission:**

- Proficiency examination credit is eligible for transfer to EKU if it is from a nationally recognized standardized test, earned at a college or university from which EKU accepts transfer credit, or at an EKU-recognized testing site, and is recorded on an official transcript.
- Departmental or institutional specific challenge tests presented on the official transcript of an institution from which EKU accepts transfer credit may be accepted in transfer - upon the review and approval of the academic department most closely related to the subject matter.
- Students seeking to have AP or IB credit recorded on their EKU academic record must have score reports sent to the EKU Department of Academic Testing before they have earned their first 30 credit hours at EKU.

**Examinations Completed After Admission:**

- A student may attempt to earn credit-by-examination in a course only once in a six-month period.
- A student will not receive academic credit for a course specific College Level Examination Program (CLEP®) or departmental examination in an area in which advanced course work has already been completed, and EKU credit recorded.

## Credit by Portfolio Review

Eastern Kentucky University acknowledges that students may have completed education, training classes, and work experiences that result in learning that sufficiently meets or exceeds the course requirements, exhibited via Student Learning Outcomes (SLOs), at EKU; therefore, formal recognition of that body of knowledge, without taking the

particular course, is warranted upon evaluation by appropriately qualified EKU faculty.

Portfolio assessment allows EKU students who are admitted, enrolled, degree seeking, and are on good academic standing, to demonstrate competence in every SLO of a course and thus meet the course requirements and receive EKU academic credit in those subject areas through one or more of the following activities: past work, training programs or in-service courses, volunteer service, cultural or artistic pursuits, hobbies and recreational pastimes, community or religious activities, organizational memberships, adult education, non-credit courses, study abroad, military training not evaluated for credit by ACE or other experiences. This list is not meant to be exhaustive.

Credit cannot be earned through portfolio assessment for certain types of courses, including but not limited to physical education activity courses and any course that must be fulfilled through direct current experience. These could include practicum courses, field experiences, and internships including student teaching, cooperative education, senior seminars, capstones, and lab courses not accompanied by related lecture/theory courses. In addition, credit by portfolio review may not be suitable for application to professionally accredited programs. The Office of the Provost is responsible for maintaining the portfolio assessment process.

## Military Credits

To receive academic credit for military training and experience, students must submit an official Joint Services Transcript (JST). Credit hours will be awarded based upon American Council on Education (ACE) recommendations listed on the official JST.

## Pre-Professional Programs

EKU has a number of programs that will help prepare students for professional schools following graduation. These schools generally do not require a specific major, provided that their prerequisite courses are taken. All professional schools are highly competitive in their admissions process. Thus, students should aim for strong GPA and professional school admission test scores. Students are encouraged to seek a major that they feel comfortable with, that they have a strong aptitude for, that is interesting and challenging, and that provides additional career options. Students should contact the advisors listed on the webpages below as early as possible after enrolling at EKU. The Advisors will assist the pre-professional student with selecting a major and provide information and advice regarding professional school admissions and requirements.

Descriptions of the following pre-professional programs may be found on the webpages listed:

Pre-Dentistry, Pre-Medical Science, Pre-Optometry, Pre-Pharmacy, Pre-Physician Associate, Pre-Physical Therapy, Pre-Engineering, Pre-Veterinary, and Pre-Law: <http://preprofessional.eku.edu/>

## Reverse Transfer Baccalaureate Process: Professional School Credit Transferred Back to EKU

In addition to the standard pre-professional curricula, Eastern Kentucky University allows students who matriculate into professional schools before graduation to transfer back professional school credit and thereby complete a Bachelor of Arts or a Bachelor of Science degree from Eastern

Kentucky University. This plan may shorten by one year the time needed for obtaining both a baccalaureate and a professional degree.

Before leaving for professional school, students approved for this process are expected to have completed the EKU General Education curriculum and the first three years of their major requirements, as specified in the relevant undergraduate EKU Catalog.

The reverse transfer process is initiated by the student communicating with a graduation specialist in the College of Science dean's office, submitting an application to graduate, and formally notifying their advisor of their intent to complete their degree via the reverse transfer process. After the first year of professional study the student sends an official transcript of their professional school work to EKU and notifies the graduation specialist in the College of Science dean's office to begin the graduation clearance process.

## Study Abroad Credit

Education abroad provides the opportunity for students to earn academic credit on programs around the world. Experiential learning through study abroad may include coursework, internships, research opportunities, or service learning. EKU students are eligible to study abroad if they are in good academic and disciplinary standing with a minimum cumulative GPA of 2.0. Students must also meet any additional prerequisites required for admission to their specific study abroad program or course.

Summer, Winter, full semester, or academic year options are available through EKU's study abroad providers. Current EKU study abroad providers include: AIFS Study Abroad, Arcos Learning Abroad, Barcelona SAE, Cooperative Center for Study Abroad (CCSA), CEA Study Abroad, CIS Abroad, Harlaxton College, International Studies Abroad (ISA), Kentucky Institute for International Study (KIIS), Knowledge Exchange Institute (KEI), SAI Programs, and the University Studies Abroad Consortium (USAC). Additional custom faculty-led courses or exchange opportunities are available through the EKU Education Abroad Office.

Students must complete all necessary paperwork through the EKU Education Abroad Office. Students planning to participate in a study abroad experience should visit the study abroad website (<http://studyabroad.eku.edu/>) (<https://studyabroad.eku.edu/>) to set up an in person or virtual appointment to start the application process. Once a study abroad program is selected, students must fill out a Study Abroad Course Pre-Approval Form, which must be endorsed by the EKU Education Abroad Office (Keith 129) before course/program approval may be granted. All study abroad students must complete EKU's pre-departure orientation prior to their study abroad term. Students who choose to participate on an unapproved study abroad program may not be eligible for financial aid, scholarships, or course credit.

Students should visit <http://studyabroad.eku.edu/> for more information.

## Transfer Student Information Credits Accepted in Transfer

Eastern Kentucky University accepts credit in transfer for undergraduate course completed at colleges and universities whose accreditation is recognized by the U.S. Department of Education and other institutions/ organizations with which the University has a recorded Academic Agreement. Additionally, EKU awards credit earned by examinations that meet EKU standards, credits for certain types of military experiences, and credit based on portfolio review.

International transfer credits from institutions with which Eastern Kentucky University does not have an articulation or exchange agreement are recorded as free elective credits at the lower division level after they have been evaluated by an outside accrediting agency (e.g. World Education Services or Silney and Associates). Students may present supporting documents from transfer courses recorded as free electives to appeal to department chairpersons for departmental credit.

## Kentucky General Education Transfer Agreement

In an effort to promote a seamless transfer between Kentucky two-year and four-year public institutions, the Kentucky Council on Postsecondary Education (CPE) developed a policy to facilitate the transfer of credits from one Kentucky public college or university to another. This policy, implemented in 1996, and revised in 2011, is called the General Education Transfer Agreement and allows for the automatic transfer of a block of courses to satisfy general education degree requirements, in addition to articulating individual courses as meeting statewide general education categories.

### General Education Certification for Students Transferring to ECU from a Kentucky Public Institution

Students transferring to ECU from another Kentucky public college or university may be

1. category certified, or
2. core certified, or
3. general education certified in general education by the Registrar of the school where the course work was taken.

ECU will honor any of these designations and is guaranteed to apply the KY public school transferred general education courses into ECU's General Education curriculum in a manner that best serves the transferring student.

*Category Certified.* Students who have completed one or more of the five general education categories of the General Education Transfer Agreement will be category certified.

*Core Certified.* Students who have satisfied all five general education categories of the General Education Transfer Agreement will be general education core certified.

*General Education Certified.* Students who have completed a general education program of 33 hours (minimum 15 hours completed with KCTCS) will be "fully general education certified" as required by the CPE General Education Transfer Agreement. Students who have earned an Associate of Science or Associate of Arts degree from a Kentucky public institution are also considered to be general education certified. Students, however, are subject to any specified general education courses required by the major and, in all cases, are required to complete the minimum number of credit hours established by the University to earn a degree.

Transfer students from Kentucky four-year institutions who complete the general education at their first institution may request the Registrar of that institution to document them as general education certified in general education, which ECU will accept. Students who transfer to ECU without a certified transfer module will have their course work at their previous institution evaluated by ECU on a course-by-course basis for general education equivalency.

The General Education Transfer Agreement also applies to students transferring from ECU to another Kentucky public university. For additional details regarding this agreement please refer to the ECU Student Outreach & Transfer Office (SOTO) (<http://soto.eku.edu/> transferstudents (<http://soto.eku.edu/transferstudents/>)).

**Note:** After initial transfer to ECU students may not transfer in further general education certifications unless they earn a subsequent AA or AS degree at a KCTCS institution. Students may transfer in further general education certifications after their initial enrollment at ECU, only if they return to a KCTCS institution for a period of at least one semester.

## Transferring General Education Courses from a Private or Out-of-State School

ECU will honor transfer general education courses from regionally accredited out-of-state or Kentucky private colleges and universities. Students should complete and submit the Transfer General Education form, along with appropriate documentation (school catalog listings of courses with relevant general education designations), to the ECU Registrar's Office. If approved, the transfer general education courses will be applied toward the student's ECU general education requirements where needed and as appropriate.

## Transfer Credit Evaluation Process

When an acceptable transfer course, which has never been evaluated before, is presented to ECU for consideration, ECU records the course as acceptable for credit but unevaluated. The Transfer Center contacts the student and requests course descriptions and syllabus information for review. The Transfer Center forwards the course description to the appropriate academic department for their review and consideration. The academic department determines whether an exact equivalency, a subject/discipline elective, or a generic free elective is appropriate depending on course content and learning objectives. In some instances the department will request that the student provide a syllabus in order to evaluate the course. The academic department or Transfer Center can recommend that a course be considered for general education applicability even if an exact equivalency is not awarded. Students wishing to appeal the evaluation of transfer credit should consult with the Student Outreach and Transition Office.

Some ECU programs have accreditation restrictions that dictate which transfer courses can be utilized to fulfill program requirements (e.g. School of Business, Paralegal, Social Work). Students considering transferring into an ECU program which has specific professional accreditation standards should refer to the webpage for that program to see details of any transfer course restrictions.

## Transfer Credits/Courses

Currently enrolled students who desire to take courses elsewhere and transfer them back to Eastern Kentucky University should consult with the ECU Transfer Center and also obtain the approval of their college dean prior to enrolling. The University will not take responsibility for courses transferred without prior approval. Students should be aware that there are limits to the number of credit hours a student may earn in any one term (see Academic Load).

Eastern Kentucky University accepts credit in transfer from other institutions with regional accreditation status. ECU also participates in and subscribes to the principles of the Kentucky Council on Postsecondary Education statewide transfer agreements. ECU accepts credits transferred from all public institutions in Kentucky accredited by

SACS, or similar regional accreditation bodies, and will apply them to the general education and program requirements to the maximum extent specified in these agreements. Credits not identified in these agreements will be applied to degree requirements as deemed appropriate. Lower division courses taken at a community or junior college are accepted in transfer as the coursework is evaluated by the EKU content expert.

Eastern Kentucky University will also award credit to students for non-collegiate sponsored instruction and training programs provided an articulation agreement exists between the University and the institutions or organizations providing the instruction. Articulation agreements must be officially approved according to the University policy for such agreements and must be signed by both EKU and the collaborating institutions/organizations. A copy of the signed agreements must be on file in the Office of the Senior Vice President for Academics and Provost (original), the Office of the Registrar, and the Dean's office of the College which initiated the agreement. Articulation agreements must be in place prior to the non-collegiate instruction or training in order for credit to be considered. In all instances, consideration will only be given to those courses/training programs whose content provides competencies equivalent or comparable to courses and educational experiences offered by EKU.

Credit and grades earned in transfer are posted to the student's EKU transcript. Students with transfer credit should note that they must successfully complete all their curriculum requirements as well as earn an institutional (EKU) GPA of 2.0 in order to graduate with a degree or University certificate from EKU.

## Post-Baccalaureate Transfer Students

Degree-seeking transfer students who have already attained a post-secondary or graduate-level degree will have that earned degree noted in their EKU academic record.

Details of the academic work counting toward a baccalaureate or graduate degree earned at another institution will not be posted, course by course, onto the EKU transcript; only the earned degree is recorded from the official transfer school transcript. All General Education requirements are waived for post-baccalaureate students.

## International Student Transfer Credit Pre-Approval

It is an institutional expectation that once international students are admitted into EKU they are expected to complete their program of study using credit earned only at EKU.

Each EKU international student may submit official transcripts and have recorded in transfer all previously earned appropriate credit from other institutions of higher education, at the time the student is admitted into EKU. After initial admission into EKU an international student, who subsequently wishes to enroll at another institution, for the purpose of earning additional transfer credit, must have prior approval from EKU before accumulating additional transfer coursework.

The Registrar will not record onto an existing international student's EKU academic record any transfer credit for which the student has not secured prior approval. This prior-approval form serves to notify the College of the student's major and the Office of International Student and Scholar Services of the international student's intention to enroll at another institution, and to establish the applicability of the anticipated

transfer credit toward the student's major – before the student enrolls at the non-EKU institution.

A maximum of 21 credit hours may be earned by any EKU student, (through any means), in any fall or spring term; dean's approval (secured on a different form) is required for a student to enroll in 19 through 21 credit hours. During the summer, 15 credit hours is the absolute maximum an EKU student may earn; dean's approval (secured on a different form) is required to enroll in 13 through 15 credit hours. In winter term, no student may have more than 4 credit hours recorded onto EKU academic history.

## Exploratory Students

If students are academically exploring and are not ready to declare a major, they will be enrolled as an exploratory student. A major should be declared as soon as students decide on their field of interest. Students must officially declare a major prior to registration during the semester in which they register for their 45th hour. Until a major is declared, students' curriculum will include general education courses appropriate for most baccalaureate programs. In addition, students will be encouraged to take exploratory electives that will allow them to sample disciplines they may like to select as a major.

## Withdrawal

### Withdrawing and Financial Aid

Federal Financial Aid regulations require students to earn credit from classes funded by financial aid. Financial aid regulations do not distinguish between receiving a "W" in a course, or an "F" in a course. In both cases tuition is paid with financial aid funds and in both cases the student did not earn credit.

Students, advisors, and instructors should note therefore that multiple withdrawals can impede appropriate progress toward degree and thus negatively impact a student's ability to retain financial aid.

**Important:** Withdrawing from a class may result in the student being responsible for both tuition charges and a late withdrawal fee. Refer to the Colonel's Compass for tuition refund dates. A class with a "W" grade will count as an attempted class for Federal Financial Aid calculations.

### Withdrawing from a Class

Students are allowed to withdraw from classes through the 12th week of a full semester. Partial semester classes have pro-rated withdrawal deadlines. See the Colonel's Compass for all withdrawal deadlines.

Whether withdrawing from a single class, a few individual classes, or all classes, withdrawals are executed online through myEKU. A student will be assigned a grade of "W" for each withdrawn course, and a "W" will appear on the grade report and transcript.

1. **Withdrawal between 2nd Week – 12th Week:** A student may officially withdraw from a full-semester course online through myEKU from the close of the Schedule Change Period, also called the Add/Drop Period (for full-semester classes the add/drop period is the 1st week of class), through Monday of the 9th week of a regular (fall/spring) semester with no withdrawal fee applied. This allows students to view their mid-term grades prior to withdrawing from a class without incurring a fee.

Beginning with Tuesday of the 9th week of the term, and until the end of the twelfth week of full-semester classes, students will be

assessed a \$50 per credit hour fee after withdrawing from a course (up to a maximum of \$150 for a typical 3 credit hour course). No fee is incurred if a student withdraws from all courses within a single term.

**Warning:** The Add/Drop Period and the withdrawal period for partial-semester classes can be significantly shorter. Always refer to the Colonel's Compass website for all drop and withdrawal deadlines.)

2. **Late Withdrawal Petitions:** After the withdrawal deadline has passed only students who are the victim of extraordinary circumstances may request a late withdrawal. The deadline for filing a petition for a Late Withdrawal under extraordinary circumstances is the last day of the full semester following the term from which the student is seeking withdrawal. The student is required to complete a Petition for Late Withdrawal form (available from the Registrar's website) and include justification and documentation for the withdrawal. If approved, the Registrar will assign the grade of "W" and will notify the instructor of the class. For details refer to the Registrar's website ([www.registrar.eku.edu](http://www.registrar.eku.edu) (<http://www.registrar.eku.edu>)).

With the exception of complete semester withdrawals, all course withdrawals approved will be assessed a \$50 per credit hour fee, to a limit of \$150 per course. Office of the Registrar is not authorized to consider any appeals of the \$50 per credit hour course withdrawal fee. Only the Office of Student Accounting Services may consider late withdrawal fee appeals.

Students who are assigned a grade of "F" or "FX" in a course due to academic dishonesty will not be permitted to withdraw from the course.

3. **Withdrawal Deadlines for Partial Semester and Summer Classes:** Specific calendar dates for withdrawal deadlines for partial semester and summer classes are available on the EKU Web site (see Colonel's Compass). The withdrawal deadline for all courses should be printed on course syllabi, are published in the Colonel's Compass, and also may be obtained by contacting the Registrar's Office. Refer to Section 3 of this Catalog for the University's Tuition Refund Policy.

## Withdrawing from the University

Eastern Kentucky University (EKU) is strongly committed to supporting students in achieving success in their intellectual and extracurricular endeavors. Students finding it necessary to withdraw from the University may withdraw from all courses online using myEKU up to the twelfth week of a full semester. Students are not allowed to withdraw from a course or from the University after the twelfth week of a regular term; after that time students must petition for a late withdrawal for an official withdrawal. A grade of "W" is assigned for each withdrawn class. Students who leave the University without an official withdrawal are subject to the grade of "F"

**Dining Services Refund for Students Withdrawing from the University:** For Colonel Card dollars or meal memberships please refer to the Student Accounting Services refund page: <http://colonelscompass.eku.edu/deadlines-adddrop-refunds> (<http://colonelscompass.eku.edu/deadlines-adddrop-refunds/>)

**Housing Refund for Students Withdrawing from the University:** For Housing refunds, please submit a written request to the

Director of Housing  
Whitlock CPO 51  
Eastern Kentucky University

521 Lancaster Avenue  
Richmond, Kentucky 40475-3151.

Housing refunds are only applicable for a limited period of time at the beginning of the semester.

## Withdrawals Due to Exceptional Situations

When physical or mental illness, or other extraordinary circumstances, intrude upon a student's ability to successfully meet the requirements of his or her course of study, such that the student is unable to avail themselves of standard methods for withdrawing from the University, per the above described timeframe, the student may complete a Petition for Late Withdrawal or a Medical Leave of Absence Request.

## Late Withdrawal

[Note: Withdrawals do not provide tuition refunds.]

Students who had documented extraordinary circumstances that prevented them from succeeding in a course, or all courses, and were not able to withdraw themselves by the published deadline, may consider petitioning for a Late Withdrawal. An approved Late Withdrawal will replace course grades with "W" grades. No tuition refund is awarded.

The deadline for filing a petition for withdrawal under extraordinary circumstances is the last day of the full semester following the term from which the student is seeking withdrawal. The student must complete a Petition for Late Withdrawal Form and include *justification and documentation* for the withdrawal. If approved, the Registrar will assign grades of "W".

If the petition is denied, the student has 30 calendar days to appeal. Any appeal is expected to provide additional pertinent information. The decision after consideration of the appeal is final.

For forms and more details, refer to the Registrar's website ([www.registrar.eku.edu](http://www.registrar.eku.edu) (<http://www.registrar.eku.edu>)).

## Medical Leave of Absence from the University

[Note: Withdrawals do not provide tuition refunds.]

### Voluntary Medical Leave of Absence

Students may request a Medical Leave of Absence from EKU when serious physical or mental health issues prevent the student from continuing with coursework in the current semester. The severity and duration of the medical problems must be such that it would be unreasonable to expect the student to make up missed class work or to continue as a student during the current term.

Medical Leave of Absence is appropriate only when "incompletes" or other arrangements with instructors are not possible. A request for a medical leave of absence can only be considered when the request is to withdraw from all classes in the current semester and will not be granted if final exams have been taken for that semester. This policy does not address withdrawal from individual classes.

Requests for a Medical Leave of Absence requires thorough and credible documentation by the appropriate healthcare provider. Details regarding the process and standards for approval are found on the Registrar's website; <http://registrar.eku.edu/withdrawal-information> (<http://registrar.eku.edu/withdrawal-information/>). The deadline for filing a

request for a Medical Leave of Absence is the last day of the term from which the student is seeking withdrawal.

If the request to take a medical leave of absence is due to physical issues, the appropriate documenting healthcare provider is a licensed medical practitioner with knowledge of the student's past medical history and who is presently working with the student to resolve current physical health issues. The medical practitioner should be the student's primary health care provider at the time of the request for Medical Leave of Absence, and should not be a family member. If the medical situation involves emergency hospitalization, documentation from the emergency room physician or hospitalist is required in lieu of the preceding information.

If the request is due to mental health reasons, the appropriate documenting healthcare provider would be a licensed psychiatrist, psychologist or counselor with knowledge of the student's past mental health history and who is presently working with the student to resolve the current mental health problems and should not be a family member. Taking a Medical Leave of Absence of at least one full semester away from the University will enhance the likelihood of success upon the student's return.

The student will be obligated to adhere to the requirements for returning from a medical leave of absence (see details on Registrar's website: <http://registrar.eku.edu/withdrawal-information> (<http://registrar.eku.edu/withdrawal-information/>)). The student is expected to provide documentation that the physical or mental health condition has been treated and symptoms that required withdrawal from the University are sufficiently resolved to allow the student to return to the University.

A Medical Leave of Absence is designed for academic purposes, not financial purposes; it allows the student the opportunity to protect their academic standing with the University by preventing the student from failing all courses for that semester. Providing that the requested withdrawal is approved, tuition charges will be adjusted if applicable and based on the regular, published, refund guidelines for all classes, effective as of the date the completed Medical Leave of Absence Request form was received by the Registrar's Office.

For details on the Medical Leave of Absence request process, refer to the Registrar's website at [www.registrar.eku.edu](http://www.registrar.eku.edu) (<http://www.registrar.eku.edu>).

## Involuntary Medical Leave of Absence

Eastern Kentucky University may place a student on an Involuntary Medical Leave of Absence for reasons of personal or community safety. The University may require a student to take medical leave of absence, if in the judgment of the Student Assistance & Intervention Team (SAIT), and in coordination with the Director of Student Health Services and/or the Director of the EKU Counseling Center, the student,

1. poses a threat to the lives or safety of himself/herself or other members of the EKU community or
2. has displayed behaviors associated with a medical or mental health condition that seriously interferes with the student's ability to function and/or seriously interferes with the educational pursuits of other members of the EKU community.

Detailed information regarding the process for determining the necessity of an Involuntary Medical Leave of Absence can be

found on the Registrar's website: [www.registrar.eku.edu](http://www.registrar.eku.edu) (<http://www.registrar.eku.edu>).

## Military Withdrawals from the University

See Military Activation section.

## Stopping Out and Returning to EKU

Students who either *stop out*<sup>1</sup> or *officially withdraw*<sup>2</sup> and are academically eligible to return to the University, may return to the University without reapplying if they have been gone for 24 or fewer months. All regular registration deadlines apply to stop-out students, and they should contact their last assigned advisor, or department chair of their major, to schedule an advising appointment in preparation for their return to EKU. To register for classes, students can log in to their EKU Direct account. Students with a registration hold must contact the office that applied the hold and have the hold removed before they will be able to register.

Students who stop out or are withdrawn for more than 24 months must be formally readmitted to the University by submitting a readmission application to the Office of Admissions. Refer to Section Two of this Catalog for details regarding readmission. The academic record for withdrawn students must be reactivated before they can once again register for classes.

All students who have attended another college/university since attending Eastern Kentucky University, regardless the length of their absence, must submit college transcripts.

1

A student who completes a semester at Eastern Kentucky University but does not return for the following term is considered to have "stopped out." Students whose enrollment was terminated for academic reasons do not qualify for stop out.

2

Students who have received a "W" grade in all classes during a semester are considered to have "withdrawn" from the University.

## State Authorization

### Kentucky is a SARA State

Eastern Kentucky University is a bricks and mortar Public University located in Richmond, Kentucky and recognized by Kentucky Revised Statute 164.290. Effective January 30, 2017 Eastern Kentucky University is a State Authorization Reciprocity Agreement (SARA) member. For more information on NC-SARA you may visit <https://nc-sara.org>. Under the terms of SARA, EKU is operating in all other member states, also known as host states under the terms of SARA.

### What is SARA?

The State Authorization Reciprocity Agreement (SARA), provides a voluntary, regional approach to state oversight of postsecondary distance education. SARA establishes uniform processes and national standards for interstate offering of postsecondary distance learning. When states join SARA, they agree to follow those processes when approving eligible institutions' participation in distance learning. They also agree to operate under SARA standards when interacting with other member institutions.

SARA's policies help protect students and provide benefits to both states and institutions carrying out distance education in multiple states. As of April 2020, 49 states, the District of Columbia, Puerto Rico and the U.S.

Virgin Islands are members of SARA. Over 2,100 colleges and universities participate in SARA.

For a list of accreditations and memberships please review the University's online catalog, <https://catalogs.eku.edu/>.

Eastern Kentucky University's regional compact is the Southern Regional Education Board (SREB).

Southern Regional Education Board (SREB)  
Wanda Barker Director, Education Technology and Multistate Cooperative Programs  
592 10th Street N.E.  
Atlanta, GA 30318-5776  
Phone: (404) 875.9211 ext. 258  
[wanda.barker@sreb.org](mailto:wanda.barker@sreb.org)  
Website: [www.sreb.org/sara](http://www.sreb.org/sara) (<http://www.sreb.org/sara/>)

Eastern Kentucky University's state regulating agency is the Kentucky Council on Post-Secondary Education. The Kentucky Council on Post-Secondary Education also serves as the state's portal agency for state authorization purposes.

1024 Capital Center Dr #320  
Frankfort, KY 40601  
Phone: (502) 573-1555  
Website: <http://cpe.ky.gov/>

## Definitions

**Student(s):** Anyone who is planning to apply to EKU or anyone currently enrolled with EKU.

**Regulated/Regulations/Regulating:** Rules, guidelines, standards, approval requirements set by an overseeing body in a state.

**Residential address:** The address where you reside and receive mail.

**Location:** Where you are located while the learning activities take place.

**Accredited or Accreditation:** Holding institutional accreditation by name as a U.S.-based Institution from an Accrediting Agency.

**Accrediting Agency:** An accreditor recognized by the U.S. Department of Education and whose scope of recognition, as specified by the U.S. Department of Education, includes Distance Education.

**Affiliate Member:** A State, territory, or district that affiliates with a Regional Compact under the terms of SARA in order to join SARA but is not a full member of that compact. The term "Member State" when used in this document includes affiliate members.

**Authorized:** Holding a current valid institutional Charter, license, approval, or other written document issued by a state, the federal government or a recognized Indian tribe, granting the named entity the authority to issue Degrees and operate within a State or jurisdiction as a postsecondary education Institution.

**Complaint:** A formal assertion in writing that a person, Institution, State, agency or other organization or entity operating under the provisions of the SARA Manual has violated the policies set forth in the SARA Manual or of laws, standards or regulations incorporated in the SARA Manual. See. SARA Manual • Version 20.1. January 1, 2020 Distributed February 6, 2020

**Council:** The National Council for State Authorization Reciprocity Agreements, or in short form National Council for SARA, or NC-SARA.

**Exempt:** The regulations established do not apply to EKU therefore we are allowed to proceed and/or operate

**Collaborating Organization:** An organization that allows students enrolled in a program that requires students complete a field placement, internship, externships and/or practicum as part of the educational curriculum for which a student receives educational credit hours to come into their organization to obtain said educational credit hours

**Portal:** Liaison entity that works with both the educational institutions and the regulating bodies to ensure compliance

## Disclosures

### Notice for Programs Leading to Licensure

SARA (State Authorization Reciprocity Agreement) has no bearing on state licensure boards.

Licensure requirements are regulated by each state's respective board(s) and must be met in order to obtain a license in that state. EKU reserves the right to offer program(s) that lead to licensure in the states where EKU has made every reasonable effort to determine its program(s) comply with each state's regulations. Regulations are ever evolving and can change without any notification to the higher education institutions. Students are encouraged to contact their applicable state licensing board(s) to determine whether the program continues to meet requirements for licensure in that state both before enrolling and during the learning experience.

A full list of all applicable state board contact information can be found at: <https://www.nc-sara.org/professional-licensure-directory> (<https://www.nc-sara.org/professional-licensure-directory/>).

### Out-of-State Relocation

It is imperative for students enrolled in a program leading to licensure to notify their advisor in advance of any plans to relocate out of state. Advisors will help students determine authorization and licensure eligibility requirements if the student relocates during the course of the program. Licensure regulations vary by state and relocating could affect whether a student will meet eligibility requirements for licensure and/or remain eligible for federal financial aid. Students must check with the state/territory licensing board where they desire licensure before relocating to ensure that they will be eligible for licensure or reciprocity.

Students must report their current residential address on their application for admission.

Students must also report where they will be located while enrolled at EKU to their advisor and/or program coordinator. Any out-of-state relocation that takes place must be reported to your advisor and the Registrar's Office.

### Complaints

1. Complaints against an Institution operating under SARA policies go first through the Institution's own procedures for resolution of grievances. Allegations of criminal offenses or alleged violations of a State's general-purpose laws may be made directly to the relevant State agencies.

2. Complaints regarding student grades or student conduct violations are governed entirely by institutional policy and the laws of the SARA Institution's Home State.
3. If a person bringing a Complaint is not satisfied with the outcome of the institutional process for handling Complaints, the Complaint (except for Complaints about grades or student conduct violations) may be appealed, within two years of the incident about which the Complaint is made, to the SARA Portal Entity in the Home State of the Institution against which the Complaint has been lodged. That Portal Entity shall notify the SARA Portal Entity for the State in which the student is located of receipt of that appealed Complaint. The resolution of the Complaint by the Institution's Home State SARA Portal Entity, through its SARA complaint resolution process, will be final, except for Complaints that fall under the provision "7" below.
4. While the final resolution of the Complaint rests with the SARA Portal Entity in the Home State of the Institution against which the Complaint has been lodged, the Portal Entity in the complainant's location State may assist as needed. The final disposition of a Complaint resolved by the Home State shall be communicated to the Portal Entity in the State where the student lived at the time of the incident leading to the Complaint, if known.
5. While final resolution of Complaints (for purposes of adjudication of the Complaint and enforcement of any resultant remedies or redress) resides in certain cases with institutions (Complaints about grades or student conduct violations), or more generally with the relevant Institution's Home State SARA Portal Entity (all other Complaints), the Regional Compact(s) administering SARA may consider a disputed Complaint as a "case file" if concerns are raised against a SARA member State with regard to whether that State is abiding by SARA policies, as promulgated in the SARA Manual. The Regional Compact may review such institutional concerns in determining whether a State under its SARA purview is abiding by SARA policies. Similarly, a Complaint "case file" may also be reviewed by NC-SARA in considering whether a Regional Compact is ensuring that its SARA member States are abiding by the SARA policies required for their membership in SARA.
6. SARA State Portal Entities shall report quarterly to NC-SARA the number and disposition of appealed Complaints that are not resolved at the institutional level. NC-SARA shall make that information publicly available on its website. Such data will create transparency and can be used in determining whether a Regional Compact is ensuring that its SARA member States and those States' Institutions are abiding by the policies required for State membership and institutional participation in SARA.
7. Nothing in the SARA Manual precludes a State from using its laws of general application to pursue action against an Institution that violates those laws. SARA Manual • Version 20.1. January 1, 2020 Distributed February 6, 2020

## Oversight of Complaint Investigation

Investigation of a SARA-related Complaint against an Institution requires that a state board, agency or entity outside the institution's immediate management be available to handle Complaints that are not resolved within the institution. A system board responsible for more than one separately Accredited institution may serve this role under SARA provisions. A board responsible for only one Accredited institution, or which lacks enforcement authority over an Institution, cannot serve as the SARA external oversight agency for such an institution. In such circumstances, the institution's home-state SARA Portal Entity may serve that function.

## Disclaimer

Please be advised that there may be other factors that could prohibit your success in a program, such as a criminal record. If you are a convicted felon under federal law U.S.C. Title 18 you are not allowed to lawfully own a firearm which would inhibit your ability to find gainful employment in many of the Criminal Justice majors.

Having a criminal record could also affect your ability to successfully obtain professional licensure in many states and your ability to secure field placements, internships, externships and/or practicums.

Many collaborating organizations require students to submit to a drug screen, criminal background check, sex offender registry search, OIG (Office of Inspector General) search, federal finger printing and/or to submit copies of all your immunization records, including OSHA training certificates, HIPPA training certificates and CPR certification. These tests are at the expense of the student. Collaborating organizations reserve the right to deny student field placements, internships, externships and/or practicums for many reasons including but not limited to if a student has a criminal record or fails the drug screen standards as established by the collaborating organization.

For more information on a specific program please visit [www.ekuonline.eku.edu](http://www.ekuonline.eku.edu) (<http://www.ekuonline.eku.edu>) and/or reach out to the program advisor.

## Alabama

**Teacher Education Programs:** *Applicants for an Alabama certificate based on reciprocity must meet Alabama's test requirements and submit a valid, renewable professional educator certificate/license issued by another state at the degree level, grade level, and in the teaching field or area of instructional support for which an Alabama certificate is sought and for which an Alabama certificate is sought and for which Alabama issues a certificate. Applicants for Alabama certification in an area of administration must also document at least three years of full-time employment as an administrator in a P – 12 school system(s). See [www.alsde.edu](http://www.alsde.edu) (<http://www.alsde.edu>)*

**Nursing:** *State approval of a program to offer Alabama licensed nurses opportunities for advanced degrees does not indicate eligibility for approval to practice as an advanced practice nurse in Alabama. Applicants for approval in Alabama are required to meet the Alabama requirements for national certification, graduation from a specific-type program for the advanced practice approval, and completion of the appropriate application. Any program offering a pre-licensure track to Alabama students shall meet the requirements of the Alabama regulations for pre-licensure programs or the graduates may not be eligible to take the licensure examination required by the Alabama Board of Nursing to enter the practice. See [www.abn.alabama.gov](http://www.abn.alabama.gov) (<http://www.abn.alabama.gov>)*

## Oregon

*Online students residing in Oregon are eligible for refunds pursuant OAR 583-030-0035(18) (c): After classes begin for a term, a student who withdraws from a course is eligible for a partial refund through the middle week of the term. Refunds shall be based on unused instructional time and shall be prorated on a weekly basis for schools using a semester, quarter or nontraditional calendar.*

- Terms that are 17 weeks in length require a refund through week 9.
- Terms that are 10 weeks in length require a refund through week 5.
- Terms that are 8 weeks in length require a refund through week 4.

- *Terms that are 5 weeks in length require a refund through week 3.*
- *Terms that are 2 weeks in length require a refund through week 1.*

*Partial refunds will occur through the middle week of any given term, and prorated on a weekly basis as stipulated above.*

## The Office of Academic Affairs

Dr. Sara Zeigler, Senior Vice President for Academic Affairs & Provost  
Coates 110  
(859) 622#8812  
www.academicaffairs.eku.edu

### Office of the Senior Vice President for Academic Affairs & Provost

The Senior Vice President for Academic Affairs and Provost serves as the chief academic officer of the University. The Senior Vice President and Provost is responsible to the President for the coordination of all phases of the instructional program and institutional research. In addition, the Senior Vice President for Academic Affairs and Provost supervises the preparation of position specifications for instructional staff and administrative personnel connected with instructional activities; makes recommendations to the President concerning staffing needs and appointments, promotions, or dismissals for all instructional personnel and administrative personnel related to instruction; and is the person responsible for the coordination and development of all academic programs, including the Council on Academic Affairs.

### Academic Testing

Academic Testing is responsible for the coordination, administration, and planning of academic assessments that are requested by the University, the educational community, and students. The types of testing provided by the office include national tests, state assessments, and locally developed exams, credit by examination, and non-traditional credit by examination. Special need accommodations are available upon request.

Additional information about Academic Testing may be found at [www.testing.eku.edu](http://www.testing.eku.edu) (<http://www.testing.eku.edu>).

### Chautauqua Lecture Series

Dr. Erik Liddell, Coordinator  
McCreary 217  
(859) 622-2267

Imagine that none of the following Chautauqua Lecturers had ever visited our campus: Kwame Anthony Appiah, Douglas Brinkley, Chuck D, Angela Davis, Robert Darnton, Richard Dawkins, Michael Eric Dyson, Sylvia Earle, Daniel Ellsberg, The American Spiritual Ensemble, Eric Foner, Sylvester Gates, Robert George, Carol Gilligan, Temple Grandin, Brian Greene, Tyrone Hayes, Maria Hinojosa, Deidre McCloskey, Irshad Manji, N. Gregory Mankiw, Eric Metaxas, Richard Muller, R. Carlos Nakai, Martha Nussbaum, Lisa Randall, Richard Rodriguez, Peter Singer, Ben Sollee, Nadine Strossen, Ron Suskind, Trinh T. Minh-Ha, Bobby Verdugo and Kenji Yoshino.

The intellectual life of our campus and community would have been less vibrant. Our program provides campus and community members an opportunity to interact with some of the leading thinkers and activists of our time. As is often the case, these thinkers and activists inform us, engage us, challenge us, infuriate us, move us, and entertain us. With our minds refreshed and our intellectual curiosity renewed, the experience

is potentially transformative. At Chautauqua events, members of the audience see how speakers from various professions and disciplines tackle provocative but vital issues. And they are encouraged to do so themselves. They see how it is possible to engage in creative, critical, but civil discourse. And they are encouraged to do the same. Our program aims to address both local concerns and global imperatives, and to extend the students' liberal arts education beyond the classroom. By striking a balance between the local and the global, we help serve the students' regional needs. By sharpening their critical and creative thinking skills, expanding their liberal arts education, and adding an international dimension to it, we enhance their chances for success beyond Appalachia. For more information, visit [www.chautauqua.eku.edu](http://www.chautauqua.eku.edu) (<http://www.chautauqua.eku.edu>) or contact Chautauqua Lecture Coordinator Dr. Erik Liddell at [erik.liddell@eku.edu](mailto:erik.liddell@eku.edu).

### Council on Academic Affairs

Dr. Jennifer Wies, Associate Provost and Council Chair

The Council on Academic Affairs is the major policy-making body for the academic programs of the University. All college curriculum committees report to the Council. Major actions of the Council are reviewed by the Faculty Senate and subsequently presented to the President of the University and the Board of Regents for final approval. Council membership is comprised of the Associate Deans; the Registrar; the Vice Chair of the Faculty Senate; the Director of the Honors Program; a representative of the Chairs Association; a faculty representative from the Academic Quality Committee of the Faculty Senate; a representative from the Libraries; one student representative from the Student Government Association; the Vice President of Student Success (non-voting); the Executive Director of Retention and Graduation (non-voting), the Director of Academic Advising (non-voting), a representative from e-campus (non-voting); and the Executive Director of Enrollment Management (non-voting). The Associate Provost serves as Chair of the Council.

### General Education

Dr. Garrett Yoder, Coordinator  
NSB 3166  
(859) 622-1527

The mission of the General Education program is to promote learning that is central to the intellectual pursuits associated with our educational programs and to enable students to make informed choices about matters of public and personal significance in a diverse, democratic society and global community. The general education program helps students to become informed, independent thinkers by developing competencies in communication, quantitative analysis, and critical thinking by helping them understand and appreciate the diversity of culture, individuals, the natural environment, and the global society. See Section Four of this Catalog for detailed information on courses.

### Graduate Education and Research

Dr. Ryan Baggett, Dean  
Whitlock Building 310  
(859) 622-8261

The Office of Graduate Education & Research is comprised of the Graduate School, the Division of Sponsored Programs, the Office of Undergraduate Research and Creative Endeavors and the Training Resource Center. The Graduate School is responsible for the administrative oversight of EKU's master's specialist and doctoral programs. The Graduate School provides opportunities for undergraduate students to get a head start in obtaining a graduate degree through

our concurrent enrollment and 3+2 programs. Interested students are encouraged to contact the Graduate School for more information. Additional information is also posted on the Graduate School website at [gradschool.eku.edu](http://gradschool.eku.edu) (<http://gradschool.eku.edu>)

The Division of Sponsored Programs assists ECU faculty and staff in seeking and managing grants, contracts, and other agreements that support ECU's mission. The Division of Sponsored Programs is also responsible for managing the university's research compliance programs including review of the use of human subjects or animals in research and responsible conduct of research by faculty, staff and students. Information is available on the Sponsored Programs website at [www.research.eku.edu](http://www.research.eku.edu) (<http://www.research.eku.edu>).

The Office of Undergraduate Research and Creative Endeavors provides opportunities for faculty-student mentorships for the purpose of deep learning, professional skill development, and contributing to the worldwide knowledge base. The Office is dedicated to achieving high quality scholarship through high quality mentorship.

The Training Resource Center is an innovative, university-based service collaborative focused on improving organizations and human service systems through partnerships, training, and professional development that enhances quality of life and strengthens communities.

## Libraries

Julie George, Dean of Libraries

Library 202A

(859) 622-1778

[library.eku.edu](http://library.eku.edu) (<http://library.eku.edu>)

[facebook.com/ekulibraries](http://facebook.com/ekulibraries) (<http://facebook.com/ekulibraries/>)

@ekulibraries

Eastern Kentucky University Libraries includes the John Grant Crabbe Main Library, centrally located on University Drive, and two branch locations: the Elizabeth K. Baker Music Library in the Foster Building and the Rogow Business Library in the Business and Technology Complex. ECU Libraries provides help, study spaces, collections, and technology designed around the academic needs of ECU's students. ECU Libraries supports ECU regional campus and online students as well and provides a full range of services equivalent to those offered at the Main Library for these distance learners.

The Main Library offers a variety of study spaces, ranging from a large collaborative area on the first floor to the Silent Study Zone on the very top floor. Noise levels are also monitored on the Quiet fourth floor to ensure plenty of silent space for individual study. In addition to spaces designed for quiet and group study, an outdoor area is available on the Noel Reading Porch, adjacent to the Library Plaza. Refreshments are available in the Java City Library Café or the vending machines on the first floor. To learn more about ECU Libraries' spaces or to make a reservation, visit [library.eku.edu/reserve-rooms](http://library.eku.edu/reserve-rooms) (<http://library.eku.edu/reserve-rooms/>). The Main Library is open late during the fall and spring semesters and offers 24 hour study space and extended hours at the end of fall and spring.

The Main Library also includes the Learning Resources Center in support of the College of Education; the Law Library; the Noel Studio for Academic Creativity; The Faculty Center for Teaching and Learning and Special Collections and Archives. ECU Libraries collects resources to best serve students, faculty, and staff. To search the online catalog and discover the collections of libraries worldwide, visit [library.eku.edu](http://library.eku.edu)

(<http://library.eku.edu>); even if ECU Libraries does not own the item you need, library staff can get it for you when you need it.

Technology is available throughout the Main Library and branches. The Main Library includes a large computer lab and computers throughout the building, a color printer, a cloud printer, fax machine, and a 3D printer available for student use. Visit [library.eku.edu/technology-showcase](http://library.eku.edu/technology-showcase) (<http://library.eku.edu/technology-showcase/>) to explore the emerging technologies ECU Libraries faculty and staff are currently collecting.

There are many ways to get help from librarians. Virtual reference services are available online or in person and research assistance is available whether you are an online student, located at a regional campus, or taking classes at the Richmond campus. Students are invited to visit one of our Help Desks, call (859) 622-6594, text (859) 903-0848, e-mail [reference.library@eku.edu](mailto:reference.library@eku.edu), tweet @ekulibaskus, or chat with us and also check out our frequently asked questions at [libanswers.eku.edu](http://libanswers.eku.edu) (<http://libanswers.eku.edu>).

## The Noel Studio for Academic Creativity

Dr. Russell Carpenter, Executive Director

Crabbe Library

(859) 622-7403

[studio.eku.edu](http://studio.eku.edu) (<http://studio.eku.edu>)

<https://www.facebook.com/noelstudio/>  
@noelstudio

The Noel Studio for Academic Creativity serves the ECU community as a collaborative, innovative learning experience designed to improve communication and research skills. With integrated programs in teaching and learning, undergraduate research, and applied creative thinking, the Noel Studio is dedicated to the development of effective communication skills and practices across disciplines. This program provides student support for writing, research, and oral communication and faculty development in a central, technologically sophisticated space located in the heart of the Crabbe library. In the Noel Studio, trained consultants offer individual and small-group consultations to students and members of the ECU community seeking to refine specific projects and assist students in enhancing their research and communication skills.

## Faculty Center for Teaching and Learning

Dr. Russell Carpenter, Executive Director

318 Crabbe Library

(859) 622-7403

[studio.eku.edu/about-faculty-center-teaching-learning](http://studio.eku.edu/about-faculty-center-teaching-learning) ([http://](http://studio.eku.edu/about-faculty-center-teaching-learning/)

[studio.eku.edu/about-faculty-center-teaching-learning/](http://studio.eku.edu/about-faculty-center-teaching-learning/))

As a unit of the Noel Studio for Academic Creativity, the Faculty Center for Teaching & Learning (FCT&L) cultivates and supports a collaborative environment for faculty-led innovation in teaching and learning to foster student engagement and success at Eastern Kentucky University. The FCT&L inspires and encourages faculty to be leaders in innovative teaching and learning by promoting five values: Exploration of new and emerging teaching approaches; Systematic reflection in the process of designing highly engaging teaching and learning experiences; Interdisciplinary collaboration across departments, colleges, and units; Transparency in teaching and learning; and Cultivation of communities among faculty learners and leaders.

## Undergraduate Research and Creative Endeavors

Dr. Jonathan Gore, Coordinator

Cammack 116

(859) 622-1115

Undergraduate Research and Creative Endeavors is a collaborative program through the Office of Graduate Education and Research and the Noel Studio. URCE coordinates and promotes undergraduate research and creative endeavors at EKU, managing such events as Posters-at-the-Capitol and the University Presentation Showcase. In addition, URCE assists faculty in mentoring student research projects, encouraging collaborations, publicizing the ongoing undergraduate research activities of the academic departments, developing grant proposals, and representing EKU at regional and national undergraduate research conferences. URCE also facilitates the publication of an online journal for undergraduate research, *The Kentucky Journal of Undergraduate Scholarship*.

## University Registrar

Shannon Tipton, University Registrar  
Whitlock Building 239  
(859) 622-2320

The Office of the Registrar serves and supports students and faculty, as well as the larger campus community. The primary responsibilities of the Registrar include: being custodian of student academic records (ensuring their accuracy and integrity), serving as compliance specialist for federal and state regulations, and protecting overall institutional integrity by upholding the University Catalog with fairness and consistency.

The Registrar's Office administers the minimum scholastic standards of the University, posts transfer credit, oversees degree audit services, monitors and safeguards academic data integrity and security, determines NCAA student-athlete academic eligibility, coordinates commencement exercises, confirms degree completion, oversees production and delivery of diplomas, creates the schedule of classes and schedules all academic space. The Registrar also oversees the Office of Academic Testing and reports directly to the Associate Provost for Student Academic Affairs.

For additional information and a more detailed listing of services, please review the Registrar's Office website at [www.registrar.eku.edu](http://www.registrar.eku.edu) (<http://www.registrar.eku.edu>).

## General Studies

Dr. Jennifer R. Wies, General Studies Coordinator  
(859) 622-6208

### Bachelor's

- General Studies, Bachelor of Arts (B.A.) (p. 84)

### Associate's

- General Studies, Associate of Arts (A.A.) (p. 80)

## Courses

### GSD 101. Foundations of Learning. (3 Credits)

I, II. A course to promote student success and lay the foundation for critical and creative thinking across the curriculum. Open to all first year students with fewer than 30 semester hours earned. Credit will not be awarded to students who have credit for ASO 100, BTO 100, EDO 100, GSD 101Z, GSO 100, HSO 100, or JSO 100.

### GSD 101AR. Foundations of Learning. (3 Credits)

I, II. A course to promote student success and lay the foundation for critical and creative thinking across the curriculum. Open to all first year students with fewer than 30 semester hours earned. Credit will not be awarded to students who have credit for ASO 100, BTO 100, EDO 100, GSD 101Z, GSO 100, HSO 100, or JSO 100.

### GSD 101Z. Foundations of Learning. (3 Credits)

I, II. A course to promote student success and lay the foundation for critical and creative thinking across the curriculum. Open to all first year students with fewer than 30 semester hours earned. Credit will not be awarded to students who have credit for ASO 100, BTO 100, EDO 100, GSD 101, GSO 100, HSO 100, or JSO 100.

### GSD 201. Transfer Student Seminar. (1 Credit)

(1) A. Seminar is for students who enroll with 30-90 hours. Students learn how to navigate campus resources, operate degree audit software, handle transfer credits and abide by Eastern's academic integrity policy. Graded Satisfactory-Unsatisfactory.

### GSD 220. Prior Learning Seminar. (2 Credits)

A. Prerequisites: ENG 102 or departmental approval. This course is designed to help students identify and document learning gained through life experience or employment that will be assessed for possible college level credit.

### GSD 225. Leadership Dynamics. (1-3 Credits)

II. The course is designed to introduce current and emerging leaders to leadership theory and development. Attention is given to self awareness, leadership styles, conflict resolution, communication skills, ethics and values and real world experience. Information is provided through class discussion, speakers, group work, journals and case studies. May be retaken to a maximum of three hours provided the subject matter differs.

### GSD 225S. Leadership Dynamics: Service Learning. (1 Credit)

II. The course is designed to introduce current and emerging leaders to leadership theory and development through a dynamic service learning component including reflective activities, practice in teamwork, and engaging in service for a community partner. Credit will not be awarded to students who have credit for GSD 225. May be repeated up to three hours.

### GSD 250. Exit Requirement AGS. (0 Credits)

(0) A. Exam for AGS students to evaluate programmatic outcomes, required of all AGS students who have earned at least 45 hours. Credit (CR) will be given when students complete the exam.

### GSD 349. Applied Learning. (0.5-8 Credits)

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

### GSD 349A. Cooperative Study. (0.5-8 Credits)

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

### GSD 349B. Cooperative Study. (0.5-8 Credits)

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

### GSD 349C. Cooperative Study. (0.5-8 Credits)

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349D. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349E. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349F. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349G. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349H. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349I. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349J. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349K. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349L. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349M. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349N. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 399. Professional Skill Development. (3 Credits)**

Prerequisites: Junior standing. Will help students recognize and build skills needed for desired career fields. Topics include: job search, resumes, cover letters, interview skills, and making connections between academic experiences and professional goals.

**GSD 401. McNair Research Symposium. (2 Credits)**

A. Prerequisites: ENG 101 and 102 or ENG 105; MAT 105 or any course above MAT 105. Introduction to research, writing, and expectations concerning research in academic settings. Provides essential information regarding research and writing expectations of graduate students. For McNair scholars only.

**GSD 450. Exit Requirement BGS. (0 Credits)**

(0) A. Exam for senior BGS students to evaluate programmatic outcomes. This exam is required of all BGS students who have earned at least 90 hours. Credit (CR) will be given when students complete the exam.

## General Studies, Associate of Arts (A.A.)

The Associate of Arts in General Studies degree provides students, especially adult learners, the opportunity to pursue a flexible degree program to meet their unique interests, career goals, and academic needs. Reflecting EKU's commitment to a liberal arts education, the degree allows students to concentrate in an area of interest while selecting from a wide variety of courses to meet personal, educational, or career goals. This degree is designed for students for whom this will be their first college degree and who wish to advance in their careers, change careers, pursue a lifelong interest beyond their careers, or use the degree as a pathway to a baccalaureate degree. Students who are admitted as "Special Admittance/Conditional Admittance" (see page 10 of the *Catalog*), will be initially admitted into the Associate of Arts in General Studies degree program.

### Opportunities

The Associate of Arts in General Studies degree has become more attractive with the growth of business and industry in the area and with the increase of minimum educational requirements for employment or promotion. In addition to those students wishing to enhance their employability, other students will find the program offers numerous opportunities to seek a degree for their own personal satisfaction. The degree allows students to gain confidence in their abilities by earning a degree at the associate level prior to enrolling in a baccalaureate program. The associate degree also provides opportunities for students who wish to consolidate previously earned credits to complete their first degree.

Serving students from a varied background of college readiness, this degree provides students a defined path to success in earning one or more degrees. Upon successful completion of EKU's Associate of Arts in General Studies degree, the student will have met all General Education requirements, which will apply toward a four-year program at EKU or any other regional Kentucky institution.

### Program Requirements

CIP Code: 24.0102

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6

<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
Standard General Education program (Elements 1-6 inclusive, per Section Four of this Catalog)		
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning (waived for transfers with 30+ hours, not including AP and Dual Credit hours)	3

### Major Requirements

#### Core Courses

Courses are within an individual College and exclusive of general education requirements. One of the concentrations below may be used to fulfill this requirement.

#### Optional Departmental Concentration

Students may select a concentration of interest. Students with a declared departmental concentration will be advised by faculty of that department and will be officially affiliated with that department. The Associate of Arts in General Studies concentration will be reflected on the student's transcript.

Choose from one of the following: 0-15

Anthropology
Applied Engineering and Technology
Broadcasting and Electronic Media
Communication Studies
Computer Networking Systems
Education
Electricity and Electronics
English
Geographic Information Systems
Geography
Geology
History
Homeland Security
Informatics
Mathematical Sciences
Military Studies
Physics and Engineering
Political Science
Pre#Business
Psychology
Security Operations
Sociology
Veterans Studies

### Exit Requirements

GSD 250	Exit Requirement AGS	0
<i>Free Electives</i>		
Choose from nine hours of free electives		9
<b>Total Hours</b>		<b>60-75</b>

(Precise degree requirements will vary based upon concentration selected and student's specific orientation course needs.)

## Major Requirements

- Students should refer to their Degree Works audit for General Education course selections.
- Students should consult with an advisor to choose an appropriate General Education math course.
- AA in General Studies students must earn a institutional GPA of 2.0 on all work earned at EKU, as well as an overall GPA of 2.0 on combined transfer and EKU graded coursework.
- AA in General Studies students must complete at least 15 semester hours at EKU.
- AA in General Studies students must complete an approved 12-hour emphasis with an overall 2.0 GPA within an individual college beyond the General Education requirement.

The Associate of Arts in General Studies is intended to be a first degree and is not appropriate for a secondary degree. Students who declare the AA in General Studies should pursue that program as their primary degree and apply for graduation as soon as they approach completion of its requirements. Students seeking only an associate degree may not declare a minor.

## Optional A.A. in General Studies Concentrations

The following concentrations are available in the Associate of Arts in General Studies degree program:

### Anthropology Concentration

Code	Title	Hours
ANT 120	Introduction to Cultural Anthropology	3
ANT 200	Archaeology and Human Cultures	3
ANT 201	Introduction to Biological Anthropology	3
One upper-division ANT course (300 or above)		3
<b>Total Hours</b>		<b>12</b>

### Applied Engineering and Technology Concentration

Code	Title	Hours
AEM 201	Metallic Material Processes	3
EET 251	Electricity and Electronics	3
AEM 195	Computer Aided Drafting	3
TEC 161	Computer Applications in Technology	3
<b>Total Hours</b>		<b>12</b>

### Broadcasting and Electronic Media Concentration

Code	Title	Hours
BEM 295	Video Production	4
Choose from two of the following:		6
BEM 202	Information Gathering	
BEM 203	introduction to Media Writing	
BEM 301	Multimedia Newswriting	

BEM 353W	The Art and Craft of Screenwriting	
Choose from two hours of the following:		2
BEM 349	Applied Learning in Broadcasting (1 hour)	
BEM 398	Electronic Video Practicum (1 hour)	
BEM 491	Senior Seminar	
<b>Total Hours</b>		<b>12</b>

**Communication Studies Concentration**

Code	Title	Hours
CMS 200	Interpersonal Communication	3
CMS 205W	Advocacy and Opposition	3
CMS 210	Public Speaking	3
or CMS 215	Business and Professional Presentations	
CMS 250		3
or CMS 275	Applied Organizational Communication Skills	
<b>Total Hours</b>		<b>12</b>

**Computer Networking Systems Concentration**

Code	Title	Hours
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 354	Microcomputer & Network Security	3
Choose from three hours of NET coursework		3
<b>Total Hours</b>		<b>12</b>

**Education Concentration**

Code	Title	Hours
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 205	Creative Learning and Teaching	3
SED 104	Special Education Introduction	3
<b>Total Hours</b>		<b>11</b>

Students planning to apply for admission to the Teacher Education Program after completing the AGS degree should also enroll in CMS 100 Introduction to Human Communication or CMS 210 Public Speaking, BIO 102 Inquiry Biology for Teachers or PHY 102 Inquiry Physics for MS Teachers, and HIS 202 .

*Students should confer with a College of Education Advisor to determine the required math course for each specific program.*

**Electricity and Electronics Concentration**

Code	Title	Hours
EET 251	Electricity and Electronics	3
EET 252	Digital Electronics	3
EET 257	Electronic Devices and Circuits	3
EET 253	Microprocessor Control Systems	3
or EET 351	Programmable Logic Controllers	
<b>Total Hours</b>		<b>12</b>

**English Concentration**

Code	Title	Hours
ENG 301	Advanced Composition	3
ENG 302	Principles of Literary Study	3

Choose from six hours of ENG courses <sup>1</sup>	6
<b>Total Hours</b>	<b>12</b>

<sup>1</sup>

ENG 210 Enjoying Literature, ENG 211 Survey of World Literature I, and ENG 212 Survey of World Literature II may count toward the concentration but will not count toward the B.A. English degree major requirements.

**Geographic Information Systems Concentration**

Code	Title	Hours
GEO 110	Environmental Geography	3
or GEO 210	Introduction to Physical Geography	
GEO 353	Geographic Information Systems	3
Choose from six hours of the following:		6
GEO 351	Geoscience Data and Techniques	
GEO 453	Advanced GIS	
GEO 455	GIS Cartography	
GEO 456	Remote Sensing	
GEO 458	Advanced Geographic Imagery	
GEO 501	Advanced Geography:____	
GLY 351	Field Methods	
GLY 408	Process Geomorphology	
<b>Total Hours</b>		<b>12</b>

**Geography Concentration**

Code	Title	Hours
GEO 100	Regions and Nations of the World	3
GEO 110	Environmental Geography	3
or GEO 210	Introduction to Physical Geography	
Choose from six hours of GEO electives		6
<b>Total Hours</b>		<b>12</b>

**Geology Concentration**

Code	Title	Hours
Choose from two of the following:		6
GLY 104	The Ocean World	
GLY 107	Gold and Diamonds	
GLY 108	Earthquakes and Volcanoes	
GLY 109	Great Moments in Earth History	
GLY 302	Earth Science	
GLY 305	Dinosaurs	
GEO 210	Introduction to Physical Geography	
Choose from two of the following:		6-8
GLY 210	Introduction to Geochemistry	
GLY 303	Environmental Geoscience	
GLY 309	Mineralogy	
GLY 315	Hydrology	
GLY 408	Process Geomorphology	
GLY 415	Sedimentary Geology	
GEO 353	Geographic Information Systems	
GEO 456	Remote Sensing	
<b>Total Hours</b>		<b>12-14</b>

**History Concentration**

Code	Title	Hours
HIS 102	American Civilization to 1877	3
HIS 103	American Civilization Since 1877	3
Choose from six additional hours of HIS courses <sup>1</sup>		6
<b>Total Hours</b>		<b>12</b>

1

Of those 6 additional hours at least 3 must be in a course listed in Area II (Europe) or Area III (Non-Western). HIS 290 Historical Research and Methods and HIS 450W Senior Seminar in History may not count toward the concentration.

**Homeland Security Concentration**

Code	Title	Hours
HLS 101	Introduction to Homeland Security	3
HLS 210	Cyber and Physical Security	3
HLS 260	Disaster Preparedness & Response	3
HLS 301	Critical Infrastructure Protection	3
<b>Total Hours</b>		<b>12</b>

Students planning to later enroll in the B.S. Homeland Security should take as part of their General Education courses:

Code	Title	Hours
EES 250	Basic Social Intelligence Skills (Element 1C)	3
STA 215	Introduction to Statistical Reasoning (Element 2)	3
GEO 210	Introduction to Physical Geography (Element 4)	3
HIS 203	(Element 5A)	3
POL 100	Principles of Politics and Government (Element 5B)	3
or POL 101	Introduction to American Government	

**Informatics Concentration**

Code	Title	Hours
INF 104	Computer Literacy with Software Applications	3
or CIS 212	Introduction to Computer Information Systems	
INF 307	Cyberspace Security and Ethics	3
INF 314	MS Office & Data Analysis	3
INF 318	Mobile Device Security & Privacy	3
<b>Total Hours</b>		<b>12</b>

Completion of this concentration also fulfills requirements for the Certificate in Informatics. Students must formally declare their intention to earn the certificate before it can be awarded.

**Mathematical Sciences Concentration**

Code	Title	Hours
MAT 234	Calculus I	4
MAT 244	Calculus II	4
STA 270	Applied Statistics	4
Choose from one of the following:		3
CSC 160	Introduction to Web Programming	
CSC 177	Introduction to Visual Basic	
CSC 190	Object- Oriented Programming I	
<b>Total Hours</b>		<b>15</b>

A minimum grade of "C" is required of all courses counted toward the concentration.

**Military Studies**

Code	Title	Hours
Choose from 12 hours of a combination of the following: <sup>1</sup>		12
MSL courses		
Military services (ACE) credit		
PHE 190	Wellness Experience:_____	
PLS 375	Terrorism/ Counterterrorism	
<b>Total Hours</b>		<b>12</b>

1

At least 3 of the 12 hours must be earned in residence at EKU.

**Physics and Engineering Concentration**

Code	Title	Hours
MAT 234	Calculus I	4
PHY 201	University Physics I	5
PHY 202	University Physics II	5
<b>Total Hours</b>		<b>14</b>

Students should note that each has prerequisites.

**Political Science Concentration**

Code	Title	Hours
POL 100	Principles of Politics and Government	3
POL 101	Introduction to American Government	3
POL 212	Introduction to Comparative Politics	3
POL 220	Introduction to World Politics	3
<b>Total Hours</b>		<b>12</b>

**Pre-Business Concentration**

Code	Title	Hours
ACC 200	Survey of Accounting	3
BUS 101	Nature of Business	3
CIS 212	Introduction to Computer Information Systems	3
or BUS 206	Fund of Prob Solving w Excel	
Choose 3 hours from the following:		3
BUS 204	Fundamentals of Business Law and Ethics	
BUS 207	Fund of Interpersonal Bus Comm	
CCT 201	Professional Communication	
CCT 270	Entrepreneurship	
GBU 204	Legal and Ethical Environments of Business	
<b>Total Hours</b>		<b>12</b>

A minimum grade of "C" is required of all courses counted toward the concentration.

**Psychology Concentration**

Code	Title	Hours
PSY 200	Introduction to Psychology	3
or PSY 200W	Introduction to Psychology: Writing Intensive	
PSY 250		3
or PSY 250W		

Choose from six hours of PSY courses <sup>1</sup>	6
<b>Total Hours</b>	<b>12</b>

1

Excluding PSY 349 Applied Learning in Psychology, PSY 402 Independent Work in Psychology, and PSY 403 ). PSY 280 Lifespan Developmental Psych. may count toward the concentration but will not count toward the B.S. Psychology degree major requirements.

A minimum grade of "C" is required of all courses counted toward the concentration.

### Security Operations Concentration

Code	Title	Hours
HLS 210	Cyber and Physical Security	3
HLS 310	Personnel Security	3
HLS 320	Security Management	3
HLS 350	Workplace Investigations	3
<b>Total Hours</b>		<b>12</b>

Students planning to later enroll in the B.S. Homeland Security should take as part of their General Education courses:

Code	Title	Hours
EES 250	Basic Social Intelligence Skills (Element 1C)	3
STA 215	Introduction to Statistical Reasoning (Element 2)	3
GEO 210	Introduction to Physical Geography (Element 4)	3
HIS 203	(Element 5A)	
POL 100	Principles of Politics and Government (Element 5B)	3
or POL 101	Introduction to American Government	

### Sociology Concentration

Code	Title	Hours
SOC 131	Introductory Sociology	3
SOC 232	Social Statistics	3
SOC 235	Social Problems	3
One upper-division SOC course (300 or above)		3
<b>Total Hours</b>		<b>12</b>

These courses will count toward the B.A. Sociology degree major requirements.

### Veterans Studies Concentration

Code	Title	Hours
VTS 200	Intro to Veterans Studies (Gen. Ed. E-6) (must be taken before beginning elective studies)	3

Choose from at least three of the following:	9	
CDF 331	Marriage and Intimate Relationships	
CDF 437	Family Stress and Resilience	
ENG 386W	War & Peace in Lit Since 1900	
MSL 303	American Military History	
PLS 375	Terrorism/ Counterterrorism	
POL 320		
POL 415	Terrorism and Political Violence	
PSY 308	Abnormal Psychology	
PSY 320	Health Psychology	

SWK 440	Addictions	
WGS 304	Gender Perspectives on Contemporary Terrorism	
VTS 350	Special Topics:___	
<b>Total Hours</b>		<b>12</b>

## General Studies, Bachelor of Arts (B.A.)

The General Studies degree program is designed for adult learners and students intending to complete a baccalaureate degree whose educational objectives are not aligned with a more traditional degree program.

In addition to the baccalaureate degree requirements in Section 5 of this Catalog, the following are required for students seeking a General Studies degree:

1. The B.A. General Studies degree is intended to be a first baccalaureate degree and is not appropriate for a concurrent or secondary baccalaureate degree.
2. Any courses ordinarily accepted for credit by Eastern Kentucky University may be chosen as hours to apply to the 120 hours required for graduation.
3. In order to declare a General Studies major students must have previously earned 60 credits from a regionally accredited institution or two years or more must have lapsed since students earned any college credit.
4. Students pursuing a General Studies degree are not permitted to declare a double major.
5. Students pursuing a General Studies degree are encouraged to declare minors and/or certificates.
6. Students in the General Studies program will graduate from and be considered alumni of a specific college based on either
  - a. the student's preference (If a student has at least 18 credits in a college, excluding General Education credits, then he/she may request to be affiliated with that college); **or**
  - b. if the student has no preference, then affiliation is based on the college in which the greatest number of credits are earned (excluding General Education credits).
7. The college from which the student graduates will not be included in the degree name. Degree name on diploma will be Bachelor of Arts General Studies.

## Program Requirements

CIP Code: 24.0102

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3

<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## General Studies

The General Studies program is intended to establish foundational skills in critical thinking and communication. The program is also intended to allow a student who has completed most of the requirements of a major but has not yet completed the major of an approved program to complete a baccalaureate degree in a timely manner.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning <sup>1</sup>	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories) At least 6 hrs. must be 400-level or higher.		
ACCT – General Studies majors may fulfill ACCT with any of the following options:		
Relevant credit hours will be incorporated into program requirements below.		
GSD 399	Professional Skill Development	
GSD 349	Applied Learning (3 credit hours of co-op/applied learning)	
Service-learning (S) course		
College-approved student abroad experience		
HON 420	Thesis Project and Seminar	
<b>Major Requirements</b>		
<i>ACCT Requirement</i>		
Choose from one of the following:		3
GSD 399	Professional Skill Development	
Co-op		
Service Learning (S) course		
EKU-approved Study Abroad course		
<i>Free Electives</i>		
Choose from 78 hours of free electives		78
<b>Total Hours</b>		<b>120</b>

1

Waived for students who enter EKU with 30+ hrs. of courses ordinarily accepted for transfer credit by Eastern Kentucky University. Student Success Seminars will not be waived for AP and Dual Credit hours.

**Note:** General Studies students are encouraged to earn minors and/or certificates. Advisors will assist students with identifying minors and certificates.

## Honors Program

Dr. David W. Coleman, Executive Director  
University Building 137  
(859) 622-2924

EKU Honors provides an enriched and accessible liberal arts college educational experience within the context of our large comprehensive university. With deep resources to support student travel and study abroad experiences as well as small seminar-style honors classes and an active residential Honors Living and Learning Community (LLC), EKU Honors provides one of the most supportive and creative educational experiences anywhere. Undergraduate students from every major on campus are welcome in EKU Honors, and our flexible honors curriculum provides versatility for today's students, who often bring to EKU large numbers of prior credits from AP, IB, or Dual Credit experiences in high school. Students who complete the honors curriculum graduate as "EKU Honors Scholars," with that status signified at Commencement by the distinctive maroon mortar board. Honors Scholar status is also formally designated on a graduate's diploma as well as on official transcripts. To continue in the program and to graduate as an EKU Honors Scholar, students must maintain at least a 3.2 EKU GPA.

### EKU Honors Curriculum

Students enter EKU Honors under one of the following two curricular tracks. Those entering EKU Honors in their first semester of college will complete the "Honors Maroon" track. Those entering as transfer students or as continuing EKU students in a semester other than their first in college will complete the "Honors Gold" track.

### GPA Requirement

To remain active and eligible in EKU Honors, students must maintain the following minimum grade point averages:

- 3.00 institutional GPA up to 60 completed institutional hours
- 3.20 institutional GPA after 60 completed institutional hours and to graduate as an EKU Honors Scholar

## Tracks

- Gold Track, Honors (p. 87)
- Maroon Track, Honors (p. 87)

## Certificate

- Honors Certificate (p. 88)

## Courses

### HON 100. Engaging in Honors. (1 Credit)

I. Orientation and introduction to the honors community and fundamental aspects of honors life, preparing for academic and professional success, and learning to document experiences via the honors portfolio. Prerequisite: Admission to the EKU Honors Program.

**HON 101. The Examined Life. (3 Credits)**

I. Prerequisite: Admission to the ECU Honors Program or the ECU E-Campus Honors Certificate program. Engagement with historical and recent memoirs, diaries, and philosophical reflections. Students develop fundamental skills in critical and creative thinking, research, and communication. Research project requires use of library resources and development of a cogent argument. Gen. Ed. 3B.

**HON 102. Honors Rhetoric. (6 Credits)**

I. Prerequisite: Admission to the Honors Program or instructor approval. Co-requisite: HON 103. Designed, with HON 103, to improve skills in writing, reasoning, oral presentation, and research, through the study of significant works of literature, philosophy, and social and cultural history from the ancient to the modern world. Each student will do a research paper that requires both significant use of library resources and the development of a cogent line of argument. Gen. Ed. Element 1A & 1B, or 3B [WC][WG].

**HON 103. Honors Communication. (3 Credits)**

I. Prerequisite: Admission to the Honors Program or program approval. Corequisite: HON 102. Designed, with HON 102, to improve skills in writing, reasoning, oral presentation, and research. Each student will learn the principles and practice of the art of public speaking including the invention, organization, style, and delivery of informative and persuasive speeches. Gen. Ed. Element 1A, 1B, & 1C.

**HON 104. Honors Exploration:\_\_\_\_\_ (3 Credits)**

(3). Interdisciplinary exploration of topics such as Health and Community, Social Justice and the Law, Environmental Sustainability, Arts and Communities, Science and Society. Students work collaboratively to identify important problems, seek solutions, and undertake individual or group projects that culminate in a presentation. Prerequisite: Admission to the honors program.

**HON 301. Self and Community. (3 Credits)**

I. Prerequisite: HON 101. Interdisciplinary examination of the meanings of participation in local, national, and global communities. Topics may include matters such as political engagement, leadership, compassion, empathy, inequality, stratification, race, and gender. Gen. Ed. 5B.

**HON 302. Honors Option. (0 Credits)**

A. Prerequisites: HON101 and HON 301. Taken in conjunction with a course at or above the 300- level in which student is simultaneously enrolled. Student completes a substantial project that places lessons and meanings of the upper-division course in the context of a philosophical, ethical, social, and/or civic issue studied in HON 101 and/or HON 301. Student must earn a "B" or better on project for HON 302 in order for it to count for credit toward the Honors Certificate.

**HON 304S. Special Topics. (3 Credits)**

A. A service-learning topics course meeting the goals of the Honors Program. A non-service-learning version of HON 304S may also be offered. Students may earn up to six hours from any combination of HON 304/304S, providing the topics differ. Gen. Ed VII (QS).

**HON 304W. Honors Seminar in the Mathematics Sciences:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or 105(B) or HON 102 and Admission to the Honors Program; and completion of all University developmental requirements; or departmental approval. A topics course in the mathematical sciences meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Gen. Ed. E#2 [QR].

**HON 307W. Honors Seminar in the Arts:\_\_\_\_. (3 Credits)**

A. Prerequisite: 101 or 101R or 105(B) or HON 102 and Admission to the Honors Program; or departmental approval. A topics course in the arts meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Gen. Ed. Element 3A.

**HON 308W. Honors Seminar in the Humanities:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or 105(B) or HON 102 and Admission to the Honors Program; or departmental approval. A topics course in the humanities meeting the goals of the Honors Program. may be retaken with different topics to a maximum of six hours. Honors Core. Gen. Ed. Element 3B.

**HON 310W. Honors Seminar in History:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or 105(B) or HON 102 and admission to the Honors Program; or departmental approval. A topics course in history meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Honors Core. Gen Ed. Element 5A.

**HON 312W. Honors Seminar in the Social and Behavioral Sciences:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 101 or 101R or 105(B) or HON 102 and Admission to the Honors Program; or departmental approval. A topics course in the social and behavioral sciences meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Gen. Ed. E#5B [SB].

**HON 317. Honors Seminar in the Natural Sciences:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or 105 (B) or HON 102 and Admission to the honors program; or departmental approval. A topics course in the natural sciences meeting the goals of the Honors Program. 2 Lec./2 Lab. Honors Core. Gen Ed. E-4.

**HON 320W. Honors Seminar in Diversity of Perspectives and Experiences:\_\_\_\_. (3 Credits)**

A. Prerequisite: Admission to the Honors Program or departmental approval and ENG 101 or 101R or 105(B) or HON 102. A topics course in the diversity of perspectives and experiences meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Honors Core. Gen Ed. Element 6.

**HON 390. Directed Topics in Honors. (1-3 Credits)**

A. Prerequisite: approval of honors program director. Specialized study of selected topics usually culminating in an official presentation at a conference such as the annual meeting of the National Collegiate Honors Council. Student must have the special topics proposal form approved by a faculty mentor prior to enrollment. May be retaken with different topics to a maximum of three hours.

**HON 391. Honors Portfolio. (1 Credit)**

A. Prerequisites: HON 101 and HON 301. Prerequisite or Co-requisite: HON 302. Production of a portfolio that reflects and demonstrates the ways in which the student's experiences in higher education have met and corresponded with the specified learning goals of the Honors Certificate program.

**HON 401. Honors Innovation Lab:\_\_\_\_. (3 Credits)**

Prerequisite: Admission to the Honors Program or departmental approval and ENG 102 or 102R or 105(B) or HON 102 and at least one 300-level HON course. Students collaborate to develop innovative approaches to address specific community problems or needs. Students learn applied creative practices to identify relevant issues, readings, stakeholders, and effective solutions. May be retaken with different topics to a maximum of six hours.

**HON 402. The Creative Imagination:\_\_\_\_. (3 Credits)**

Prerequisite: Admission to the Honors Program or departmental approval and ENG 102, 102R, 105 (B), or HON 102 and at least 3 credit hours of HON upper-division credit. Students study and engage in various creative approaches to an artistic and literary theme. Students present contemporary and historical approaches and collaborate on new and innovative approaches. Specific themes for the course are rotating. May be retaken with different topics to a maximum of six hours.

**HON 403. Science, Ethics, and Big Ideas:\_\_\_\_. (3 Credits)**

Prerequisite: Admission to the Honors Program or departmental approval and ENG 102 or 102R or 105(B) or HON 102 and at least one 300-level HON course. An in-depth examination of a scientific issue or issues of paramount significance in contemporary society. Emphasis is on the scientific details of the issue or issues as well as social, civic, and political ramifications. May be retaken with different topics to a maximum of six hours.

**HON 404. Honors Inter-professional Health Sciences Seminar:\_\_\_\_. (3 Credits)**

(3)A. Prerequisites: ENG 102 or ENG 105(B) or HON 102; At least three hours of HON upper-division credit. Honors Program advanced seminar course designed to provide honors students in health sciences and related majors with a collaborative interprofessional experience. Biological, psychosocial, cultural, economic, legal, political, environmental, and technology factors surrounding health. Course focuses on a specific theme each semester it is taught.

**HON 420. Thesis Project and Seminar. (3,6 Credits)**

I, II. An in-depth thesis or major project, approved by the honors director, and presented in a suitable format within the seminar. May be retaken for a maximum of 6 credit hours.

## Gold Track, Honors Program Requirements

*For students entering EKU Honors in a semester other than their first semester in college*

Code	Title	Hours
<b>Core Courses</b>		
HON 100	Engaging in Honors	1
<i>Honors Electives</i>		
Choose from two of the following: <sup>1</sup>		6
HON 104	Honors Exploration:_____	
HON 304W	Honors Seminar in the Mathematics Sciences:____	
HON 307W	Honors Seminar in the Arts:____	
HON 308W	Honors Seminar in the Humanities:____	
HON 310W	Honors Seminar in History:____	
HON 312W	Honors Seminar in the Social and Behavioral Sciences:____	
HON 317	Honors Seminar in the Natural Sciences:____	
HON 320W	Honors Seminar in Diversity of Perspectives and Experiences:____	

*Honors Experiences*

Choose from one of the following: <sup>2</sup>		6
A. Take two additional 300-level honors seminars from list above		
B. Take one additional 300-level honor seminar plus one Honors Enhancement from list below		

C. Two Honors Enhancements from list below

**Total Hours** **13**

1

Any of these course numbers except HON 104 Honors Exploration:\_\_\_\_\_ and HON 317 Honors Seminar in the Natural Sciences:\_\_\_\_ may be taken twice, provided course content differs

2

All Honors Enhancement credit must be approved in advance and documented in the student's Honors Portfolio. Honors Enhancements might include:

- A study abroad or significant study-away experience
- A significant internship or co-op
- A significant, faculty-mentored undergraduate research experience

## Maroon Track, Honors Program Requirements

*For students entering EKU Honors in their first semester of college*

Code	Title	Hours
<b>Core Courses</b>		
HON 100	Engaging in Honors	1
HON 101	The Examined Life	3
HON 104	Honors Exploration:_____	3
<i>Honors Electives</i>		
Choose from two of the following: <sup>1</sup>		6
HON 304W	Honors Seminar in the Mathematics Sciences:____	
HON 307W	Honors Seminar in the Arts:____	
HON 308W	Honors Seminar in the Humanities:____	
HON 310W	Honors Seminar in History:____	
HON 312W	Honors Seminar in the Social and Behavioral Sciences:____	
HON 317	Honors Seminar in the Natural Sciences:____	
HON 320W	Honors Seminar in Diversity of Perspectives and Experiences:____	
<i>Honors Experiences</i>		
Choose from one of the following:		0-6
A. Take two additional 300-level honors seminars from list above		
B. Take one additional 300-level honor seminar plus one Honors Enhancement from list below <sup>2</sup>		
C. Two Honors Enhancements from list below <sup>2</sup>		
<i>Honors Thesis</i>		
HON 420	Thesis Project and Seminar	6
<b>Total Hours</b>		<b>19-25</b>

1

Any of these course numbers except HON 317 Honors Seminar in the Natural Sciences:\_\_\_\_ may be taken twice provided course content differs.

2

All Honors Enhancement credit must be approved in advance and documented in the student's Honors Portfolio. Honors Enhancements might include:

A study abroad or significant study-away experience

A significant internship or co-op

A significant, faculty-mentored undergraduate research experience

## Honors Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
HON 101	The Examined Life	3
HON 301	Self and Community	3
HON 302	Honors Option <sup>1</sup>	0
HON 391	Honors Portfolio	1
<i>Honors Elective</i>		
Choose from one of the following: <sup>2</sup>		3
CMS 375	Intercultural Communication	
EES 310	Applied Critical Thinking	
EES 450	Leaders Without Titles	
HUM 300	Humanity in the Postmodern Age	
HUM 300W	Humanity in the Postmodern Age	
<b>Total Hours</b>		<b>10</b>

1

HON 302 Honors Option is a zero-credit-hour course taken in conjunction with a course of the student's choosing (usually but not necessarily in the student's major) at the 300-level or higher. Satisfying the HON 302 Honors Option requirement involves completing an honors interdisciplinary research project related to materials in the corresponding non-honors course, explicitly relating them to themes and issues addressed in HON 101 The Examined Life and/or HON 301 Self and Community. The project for HON 302 Honors Option must receive a grade of "B" or higher for Honors Certificate credit.

2

Students completing one of these electives for Honors Certificate Elective credit will be required to do an honors interdisciplinary assignment that links course material explicitly to lessons and/or themes from HON 101 The Examined Life and/or HON 301 Self and Community.

**Note:** Average GPA of courses applied to the minor or certificate must be 2.25 or better.

## College of Business

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Dr. Patricia Isaacs, Associate Dean  
Business and Technology Center 214  
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Dr. Marcel M. Robles, Assistant Dean and Chair of Faculty  
Business and Technology Center 214  
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## Vision of ECU's College of Business

Leading transformative education, preparing innovative professionals for global impact.

Foundational to our vision is the motto of former ECU Professor of Accounting, Dr. Jack L. Dyer, "We change lives for the better." A transformative education prepares students to be innovative, creative, and entrepreneurial in their professional and personal endeavors.

Graduates enter the world with a global focus in order to serve the service region of ECU, the commonwealth of Kentucky, and the global community. Developing a global focus in today's world helps develop self-awareness of one's own identity, culture, and beliefs and how to connect throughout the world. An appreciation of diverse cultures will make ECU graduates more competitive and successful globally.

The College of Business vision is to develop graduates who have a transformative impact on their communities and beyond.

## Mission of ECU's College of Business

We are a School of Opportunity developing leaders with integrity and knowledge for the global environment. Our student-centered commitment to excellence fosters an applied approach through interdisciplinary collaboration and research with students, faculty, and community. Our mission defines our purpose. We are a School of Opportunity, valuing who we include, not exclude, providing access to education in business disciplines, delivering experiences that transform students into business leaders with integrity and knowledge who are able to adapt to the changes in the global environment. Our commitment to excellence is student-centered and made possible through collaboration and research with students, faculty, and community.

## College of Business Core Values

**Through connection and collaboration:**

- Excellence
  - Striving for the highest standard in all we do with a spirit of innovation and entrepreneurship
- Integrity
  - Maintaining a culture of acting ethically, honestly, inclusively, and respectfully to all
- Service
  - Committed to the good we can do for others through educational opportunity and community engagement

## AACSB International

Graduates of ECU's College of Business (the undergraduate and graduate programs in business administration at Eastern Kentucky University) have joined the ranks of the nation's top business schools. ECU's College of Business has received accreditation by the AACSB International for its undergraduate and graduate programs in business administration. Less than five percent of the world's business schools have achieved this elite distinction.

AACSB International accreditation represents the highest standard of achievement for business schools worldwide and is the hallmark of excellence in business education. Institutions that earn accreditation confirm their commitment to quality and continuous improvement through a rigorous and comprehensive peer review. Founding members

of the agency include many Ivy League Schools, including Columbia, Cornell, Dartmouth, Harvard, and Yale; and such top-ranked schools as the University of California at Berkeley, the University of Chicago, and Northwestern also hold AACSB accreditation.

To achieve accreditation, EKU's College of Business satisfied a wide range of quality standards related to strategic management of resources, interactions of faculty and students in the educational process, and achievement of learning goals in degree programs.

## Beta Gamma Sigma

Founded as a national organization in 1913, Beta Gamma Sigma is an international honor society that provides the highest recognition that a business student anywhere in the world can receive in an undergraduate or master's program at a school accredited by AACSB International. With the global expansion of accreditation by AACSB International, membership is no longer limited to those who have studied in the U.S. or Canada.

The mission and objectives of Beta Gamma Sigma are to encourage and honor academic achievement in the study of business and personal and professional excellence in the practice of business, to foster an enduring commitment to the founding principles and values of honor and integrity, to encourage the pursuit of wisdom and earnestness, to support the advancement of business thought and practice to encourage lifelong learning, and to enhance the value of Beta Gamma Sigma for student and alumni members in their professional lives.

To be eligible for Beta Gamma Sigma, students must be in the top 7 percent of the junior class, top 10 percent of the senior class, or top 20 percent of the MBA program.

## Bachelor of Business Administration Degree Requirements

General University requirements, as well as specific course requirements set forth in the description of curricula, must be met by students completing baccalaureate business programs administered by the College of Business. See programs under each department for major requirements. BUS 100 Professional Development One, is the Student Success Seminar for the College of Business, and it is required in all Business programs. The requirements for the **Bachelor of Business Administration (BBA)** are as follows:

1. An institutional 2.0 GPA must be maintained in all work taken in the BBA program.
2. At least 50 percent of the business course credit hours required for the BBA degree must be completed at EKU.
3. The BBA degree will only accept credits for business courses transferred from other colleges and universities accredited by the International AACSB. As completely as possible, it will apply these credits to the student's degree program. To ensure that they earn appropriate credits, students are strongly advised to see the College of Business Advising Office and also obtain the Dean's approval prior to enrolling in any course work they plan to transfer. The University will not take responsibility for courses transferred without prior approval.
4. For the BBA program, a "C" or better is required for the courses in the student's major.

## Bachelor of Business Administration

EKU's College of Business Core is designed with a beginning, middle, and end. During the first year, business students are provided historical perspective for modern business and introduced to professional development. They then focus on a foundation of the environment and tools of business, which equips them for the functions of business. The culmination of the Business Core is the capstone course, which integrates content from each of the functions of business. Core courses provide breadth in business topics, and major/concentration courses provide depth in a particular discipline. The Business Core is required for all Business majors. It provides foundational knowledge and understanding of the environment and functions of business, and it provides opportunities for students to develop professional skills. The Business Core includes the following:

### Professional Development Series

Code	Title	Hours
BUS 100	Professional Development One	1
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1

Opportunities for skill-building in four particular content areas needed for successful working professionals: business etiquette, financial literacy, job readiness, and personal productivity

### Nature of Business

Code	Title	Hours
BUS 101	Nature of Business	3

Introduction to business and its functions from a historical and holistic perspective.

### Fundamentals Series

Environment and Tools of Business and Supporting Courses

### Environment of Business

Code	Title	Hours
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	3
ECO 231	Fundamentals of Macroeconomics	3
BUS 204	Fundamentals of Business Law and Ethics	3

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

Understanding of fundamental economics and the legal and ethical environment of business

### Tools of Business

Code	Title	Hours
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	1.5
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	1.5
MAT 114	College Algebra (Element 2) <sup>G</sup>	3
or MAT 211	Applied Calculus	
STA 270	Applied Statistics	4
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3

BUS 209 Fundamentals of Financial and Managerial Accounting 3

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

Mathematical tools of business, reasoning, and problem-solving skills

## Essentials Series

Functions of Business:

Code	Title	Hours
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3

Foundational courses in the functional areas of business (communication, computer information systems, finance, management, and marketing)

## Application of Business

Though not required for the BBA, all business majors are strongly encouraged to pursue opportunities to apply content learned in their business courses through experiences such as internship/co-op and international travel/study abroad.

## Mastery of Business

Code	Title	Hours
BUS 402	Integrated Strategic Mgmnt	3

Synthesizes knowledge, skills, and abilities learned in previous Business Core courses to prepare students to manage, lead, and make business decisions.

## Enrollment in Upper-Division EKU's College of Business Courses

To enroll in other upper-division business courses, students are required to have met the specific prerequisite(s) for each course and have earned an overall 2.0 GPA. Students majoring in other departments whose planned curriculum includes selected business courses (by virtue of agreements of sponsoring departments with a business program) must also adhere to all specified course prerequisites. Students majoring in programs other than business cannot earn more than 25 percent of their total degree requirements in courses with business prefixes.

## Course Repeat Policy

Courses may be repeated *once*. Second or subsequent repeats (maximum of three enrollments) must be requested on a College Exception form approved by the Dean of the College. Exceptions will only be considered under unusual circumstances. An enrollment is counted as a repeat if a previous enrollment in the course resulted in a passing or failing grade or a "W" due to withdrawing from the course.

## Transfer Students and Students from Other EKU Colleges

BBA program requirements for transfer students are the same as those for students enrolling initially at EKU. Transfer students must have completed all the requirements listed above to be eligible for upper-division business courses.

EKU's College of Business considers lower-division credits transferred to EKU as lower division, even if EKU offers what appears to be a comparable course at the upper-division level. However, the Dean of the College of Business may accept individual courses at EKU if the courses are validated using acceptable validation techniques. CLEP® and departmental exams are examples of possible validation techniques. With specified courses in accounting, the successful completion of advanced courses in the subject field for which the transfer course is a foundation or supporting requirement is an acceptable validation method. A successfully validated lower-division transfer course may not be utilized to fulfill the 43-hour upper-division graduation requirement.

## Business

### Assistant Dean & Chair of the Faculty

Dr. Marcel Robles  
(859) 622-1117  
Business and Technology Center 210

## Faculty

M. Abney, T. Alam, L. Allison, F. Awang, L. Barthel, J. Blair, T. Caviness, G. Crowley, K. Easterling, A. Engle, Z. Eser, S. Feltus, M. Fore, S. Gadd, S. Gao, L. Gardner, E. Gogol, C. Harter, J. Harter, F. Hasan, M. Healy, A. Helton, R. Houston, T. Huq, P. Isaacs, K. Kincer, R. Lingenfelder, R. Mahaney, T. Martin, P. Niemann, B. Polin, T. Randles, M. Robles, S. Shackelford, T. Smith, J. Stearns, L. Su, K. Tabibzadeh, K. Wilson, B. Woodruff, Q. Xiao, J. Zhang, Z. Zhang, and W. Zhuang

## Bachelor's

- Accounting, Bachelor of Business Administration with a Concentration in Management Accounting (B.B.A.) (p. 103)
- Accounting, Bachelor of Business Administration with a Concentration in Public Accounting (B.B.A.) (p. 104)
- Computer Information Systems, Bachelor of Business Administration with a Concentration in General Computer Information Systems (B.B.A.) (p. 107)
- Computer Information Systems, Bachelor of Business Administration with a Concentration in Network Management (B.B.A.) (p. 108)
- Finance, Bachelor of Business Administration with a Concentration in Banking and Financial Services (B.B.A.) (p. 110)
- Finance, Bachelor of Business Administration with a Concentration in Business Finance (B.B.A.) (p. 111)
- Finance, Bachelor of Business Administration with a Concentration in Financial Planning (B.B.A.) (p. 112)
- General Business, Bachelor of Business Administration with a Concentration in Business and Marketing Education/Teaching (B.B.A.) (p. 114)
- General Business, Bachelor of Business Administration with a Concentration in Corporate Communication and Technology (B.B.A.) (p. 115)

- General Business, Bachelor of Business Administration with a Concentration in General Business (B.B.A.) (p. 116)
- General Business, Bachelor of Business Administration with a Concentration in International Business (B.B.A.) (p. 118)
- Management, Bachelor of Business Administration with a Concentration in Global Supply Chain Management (B.B.A.) (p. 120)
- Management, Bachelor of Business Administration with a Concentration in Human Resource Management (B.B.A.) (p. 121)
- Management, Bachelor of Business Administration with a Concentration in Management (B.B.A.) (p. 122)
- Marketing, Bachelor of Business Administration with a Concentration in General Marketing (B.B.A.) (p. 123)
- Marketing, Bachelor of Business Administration with a Concentration in Marketing Research and Analytics (B.B.A.) (p. 124)
- Marketing, Bachelor of Business Administration with a Concentration in Music Marketing (B.B.A.) (p. 125)
- Marketing, Bachelor of Business Administration with a Concentration in PGA Golf Management (B.B.A.) (p. 127)
- Risk Management and Insurance, Bachelor of Business Administration (B.B.A.) (p. 128)

## Associate's

*No results were found.*

## Minor

- Banking and Financial Services, Minor (p. 106)
- Business, Minor (p. 106)
- Computer Information Systems, Minor (p. 109)
- Innovation & Entrepreneurial Thinking, Minor (p. 119)
- International Business, Minor (p. 119)
- Personal Finance, Minor (p. 128)
- Risk Management and Insurance, Minor (p. 129)
- Sales, Minor (p. 130)

## Certificate

- Accounting, Certificate (p. 105)
- Banking and Financial Services, Certificate (p. 106)
- Corporate Communication, Certificate (p. 109)
- Financial Literacy, Certificate (p. 113)
- Global Supply Chain Management, Certificate (p. 119)
- Marketing Research and Analytics, Certificate (p. 123)
- Sales, Certificate (p. 130)

## Courses

### Accounting

#### **ACC 200. Survey of Accounting. (3 Credits)**

I, II. Cross listed with BUS 209. Prerequisite: MAT 105 or higher. Not for students majoring or minoring in the School of Business. Survey of foundational concepts in accounting for the user and the preparer of financial statements. Emphasis on (a) how business transaction impact financial statements and (b) measurement and behavior of costs to identify and solve business problems. Credit will not be awarded to both ACC 200 and BUS 209.

#### **ACC 201. Introduction to Financial Accounting. (3 Credits)**

I, II. Prerequisite: STA 215 or STA 270 or MAT 105 or higher. A user's approach to understanding financial accounting and reporting, emphasizing how creditors, investors, and others use accounting information in decision making and why financial accounting information is important to these users.

#### **ACC 202. Introduction to Managerial Accounting. (3 Credits)**

I, II. Prerequisite: ACC 201 with a grade of C- or better. A study of the objectives, preparation and uses of managerial accounting information primarily from a user perspective. Emphasis on measurement, allocation, and reporting of costs to identify and solve business problems.

#### **ACC 251. Introduction to Accounting Information Systems. (3 Credits)**

I, II. Prerequisite: ACC 201 with a grade of "C" or better. An introduction to manual and computer-based accounting information systems. Topics include business processes, transaction cycles, and computerized accounting software. The course stresses problem solving and computer application skills.

#### **ACC 301. Intermediate Accounting I. (3 Credits)**

I, II. Prerequisite: CIS 212 (or INF 104) with a grade of "C". Prerequisite or Corequisite: ACC 251 with a grade of "C" or better.. Financial statements, current assets, investments, current and long-term liabilities, acquisitions, use and retirement of plant and equipment.

#### **ACC 302. Intermediate Accounting II. (3 Credits)**

I, II. Prerequisite: ACC 301 with a grade of "C" or better. Capital stock, financial statement analysis, statement of cash flows, lease and pension accounting, accounting changes, and deferred taxes.

#### **ACC 322. Tax I. (3 Credits)**

I, II. Prerequisite: ACC 200 or ACC 201 or BUS 209 with a grade of "C" or better and junior standing. Income tax legislation-Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends, deductions; withholding. Credit will not be awarded for both ACC322 and ACC322S.

#### **ACC 322S. Tax I. (3 Credits)**

I, II. Prerequisite: ACC 200 or ACC 201 or BUS 209 with a grade of "C" or better and junior standing. Income tax legislation- Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends, deductions; withhold- using a service learning approach. Credit will not be awarded for both ACC 322 and ACC 322S.

#### **ACC 327. Cost Accounting. (3 Credits)**

I, II. Prerequisite: ACC 200 or ACC 202 with a minimum grade of "C". Cost flows and cost systems; the cost accounting cycle; basic cost determination systems and procedures; standard costing; budgeting and decision making applications.

#### **ACC 349. Applied Learning in Accounting. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as a major elective. Additional hours may be used to fulfill the 150-hour CPA exam requirement. May be repeated for a total of 16 credit hours.

#### **ACC 350. Accounting Information Systems and Analytics. (3 Credits)**

I, II. Prerequisite: A minimum grade of "C" in ACC 251 and CIS 212 or INF 104. Review of accounting information systems regarding their inputs, processes, controls, and analysis of outputs. Topics include internal controls, business processes, data analytics and visualization, artificial intelligence, robotic process automation, and enterprise resources planning systems. 3 Lec /2 Lab.

**ACC 425. Accounting Theory. (3 Credits)**

I, II. Prerequisite: ACC 302 with a grade of "C" or better and CCT 300 or CCT 300W. Emphasis on a conceptual understanding of accounting principles using literature published by the AICPA, FASB, and current writers. Accounting history, SEC, legal liability, conceptual framework, SFAS's and APB's.

**ACC 440. Legal Aspects of Accounting. (3 Credits)**

I, II. Prerequisites: Senior standing (90 hours or more) and GBU 204 with a grade of "C" or better. Law as it relates to the accounting profession.

**ACC 441. Auditing I. (3 Credits)**

I, II. Prerequisites: ACC 301 and GBU 204 with grades of "C" or better. Professional ethics; accountant's legal responsibility; internal control; general arrangement and procedure of an audit; asset accounts; liability accounts; operating accounts; the audit report.

**ACC 490. Independent Study. (1-6 Credits)**

A. Prerequisite: ACC major with senior standing. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ACC 501. International Accounting and Combinations. (3 Credits)**

II. Prerequisite: ACC 302 with a minimum grade of "C". Corporate combinations including consolidated balance sheets and income statements and special problems with consolidations. International topics: standards, foreign exchange transactions and translation of financial statements of foreign subsidiaries.

**ACC 521. Government and Not-For-Profit Accounting. (3 Credits)**

Prerequisite: ACC 301 with a minimum grade of "C". A study of fund accounting and financial reporting concepts, applications, and practices for governmental and not-for-profit entities.

**ACC 523. Taxation of Corporations. (3 Credits)**

A. Prerequisite: ACC 251 with a minimum grade of "C". Federal income tax report preparation with emphasis on partnership and corporate returns; estate and trusts; gift and estate taxes; special problems in preparation of tax returns.

**ACC 525. Forensic Accounting. (3 Credits)**

A. Prerequisites: ACC 301 and GBU 204 with a grade of "C" or better or departmental approval. A study of investigative accounting procedures and techniques used in litigation support. Topics to be covered include financial reporting fraud, employee fraud, income reconstruction methods, testifying as an expert witness, evidence management, cybercrime, and business valuations.

**ACC 527. Advanced Management Accounting Seminar. (3 Credits)**

A. Prerequisite: ACC 301 and ACC 327 with a grade of "C". Addresses financial, nonfinancial and ethical dimensions of decision-making related to planning, control, and reporting. Course content goes beyond creation and accumulation of information, emphasizing appropriate application, interpretation, and use of managerial accounting information. Credit will not be awarded for both ACC 527 and ACC 727.

**ACC 590. Special Topics in Accounting: \_\_\_. (1-3 Credits)**

A. Prerequisite: Departmental Approval. For special topics related to the field of Accounting and beyond the scope of regularly offered courses. May be taken to a maximum of 6 hours provided the subtitle/topics vary.

**Business****BUS 100. Professional Development One. (1 Credit)**

Prerequisite/Corequisite: BUS 101 (with a grade of "C" or better). Formerly BTO 100. In this course, students will focus on first impressions and social media presence, basic banking and personal budgeting, self-discovery of values and career exploration, as well as goal setting and time management. Credit will not be awarded for students who have credit for BTO 100.

**BUS 101. Nature of Business. (3 Credits)**

Formerly GBU 101. A student must register for this course prior to or concurrently with any other BUS course. Prerequisites: School of Business or BBA major or business minor; freshmen or sophomore standing. Introduction to business through historical understanding and holistic interpretation of modern organization. Includes capitalism's role and how it compares to other economic philosophies, functional aspects of the modern organization, current trends and future organizational strategies. Credit will not be awarded for students who have credit for GBU 101.

**BUS 200. Professional Development Two. (1 Credit)**

Prerequisite: Sophomore Standing. In this course, students focus on professional appearance and introductions, income planning and taxes, job application materials and building a network, as well as passion and perseverance.

**BUS 204. Fundamentals of Business Law and Ethics. (3 Credits)**

I, II. Formerly GBU 204. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisite: minimum 30 hours. Topics include business organizations; contract, employment, agency, constitutional, and criminal law; torts; real and intellectual property; and debtor/creditor issues, as well as ethical and socially responsible decision making. Credit will not be awarded for both GBU 204 and BUS 204.

**BUS 206. Fund of Prob Solving w Excel. (3 Credits)**

Prerequisite/Corequisite: A student must register for this course concurrently with or after completing BUS 101 (with a grade of "C" or better). Topics include constructing a logical argument, analyzing and interpreting data, applying mathematical methods to solve problems, using Excel to analyze and create graphical data representation, and personal creativity and whole-brain thinking.

**BUS 207. Fund of Interpersonal Bus Comm. (3 Credits)**

Formerly CCT 201. Prerequisite/Corequisite: A student must register for this course concurrently with or after completing BUS 101 (with a grade of "C" or better). Prerequisites: ENG 102, ENG 102R, HON 105 (B), or HON 102 (with a grade of "C" or better). A study of advanced knowledge and skills needed to communicate effectively in various settings, including face-to-face, working in teams, and communicating via digital networks. Persuasion, self-awareness, relational development, conflict resolution, listening, and non-verbals also covered. Credit will not be awarded for students who have credit for CCT 201.

**BUS 209. Fundamentals of Financial and Managerial Accounting. (3 Credits)**

Prerequisite: MAT 105 or higher (with a grade of "C" or better). Course focuses on how creditors, investors, and others use accounting information in decision making. Includes objectives, preparation, and uses of managerial accounting information, along with use of accounting information to identify and solve business problems. Credit will not be awarded to both ACC 200 and BUS 209.

**BUS 300. Professional Development Three. (1 Credit)**

Formerly BTS 300. Prerequisite: BUS 200 (with a grade of "C" or better) and a minimum of 30 hours. In this course, students focus on dining etiquette and conversation topics, debt and benefits, interviewing and personal selling, as well as motivations and professional portfolio building. Credit will not be awarded for students who have credit for BTS 300.

**BUS 301W. Fundamentals of Formal Commun.. (3 Credits)**

I, II. Formerly CCT 300W. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: ENG 102, ENG 102R, HON 105 (B), or HON 102 (with a grade of "C" or better) in each course; School of Business or BBA major or business minor; Sophomore Standing with an overall minimum 2.0 GPA. Additionally, corporate communication majors should take this course first in the Essentials Series. Students will learn principles and practices of written business communications. Students will review key genres of business communications, including memos, letters, executive summaries, reports, proposals, and visual presentation aids. This is a "writing intensive" course. Credit will not be awarded to students who have credit for CCT 300W.

**BUS 302. Essentials of Finance. (3 Credits)**

I, II Formerly FIN 300. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: ACC 200 or 201 or BUS 209, and ECO 230 (with a grade of "C" or better) in each course; and an overall minimum 2.0 GPA. Additionally, finance majors should take this course first in the Essentials Series. Firm financial motives, time value of money, risk analysis, elementary capital budgeting, residual dividend policy, elementary capital structure decisions, financial statement analysis, and international financial considerations viewed through the lens of risk assessment and management. Credit will not be awarded to both BUS 302 and FIN 300.

**BUS 303. Essentials of Org Behav/HR Mgt. (3 Credits)**

I, II. Formerly MGT 300. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: School of Business or BBA major; junior standing (a minimum of 60 hours) with an overall minimum 2.0 GPA. Additionally, management majors should take this course first in the Essentials Series. Comprehensive survey of the principles and practices of leading and managing people in organizations. Topics include staffing, onboarding, training, development, performance management, compensation, leadership, motivation, conflict management, organizational culture, teams, and ethics. Credit will not be awarded to students who have credit for MGT 300.

**BUS 304. Essentials of MIS. (3 Credits)**

I, II. Formerly CIS 300. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: BUS 206 or CIS 212 or INF 104 or TEC 161 (with a grade of "C" or better) in each course; and an overall minimum of 2.0 GPA. Additionally, computer information system majors should take this course first in the Essentials Series. Topics include: using databases to collect, organize, and manage "big data" datasets, computer networking, the Internet, mobile devices, the cloud, cybersecurity Safeguards, social networking, and legal requirements for safeguarding employee and customer data. Credit will not be awarded to students who have credit for CIS 300.

**BUS 305. Essentials of Marketing. (3 Credits)**

I, II. Formerly MKT 300. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: School of Business or BBA major; sophomore standing (a minimum of 30 hours) with an overall minimum 2.0 GPA. Additionally, marketing majors should take this course first in the Essentials Series. Overview of strategic processes in marketing goods and services to global markets. Focus on behavioral, organizational, and consumer variables in decision processes, and how to use marketing mix and marketing information to affect buyer decisions. Credit will not be awarded to students who have credit for MKT 300.

**BUS 306. Essentials of Supply Chain Mgt. (3 Credits)**

I, II. Formerly MGT 370. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Sophomore standing (a minimum of 30 hours) with an overall minimum 2.0 GPA. Strategic management of operations and supply chain with overall objective of global optimization. Topics include: strategic planning, demand forecasting, quality management, fulfillment, capacity planning, transportation management, logistics, distribution center management, project management, and inventory management. Credit will not be awarded for students who have credit for MGT 370.

**BUS 400. Professional Development Four. (1 Credit)**

Formerly BTS 400. Prerequisite: BTS 300 or BUS 300 (with a grade of "C" or better). In this course, students focus on business travel and cross cultural relationships, investments and retirement, applying for and obtaining a job, and work-life balance and community responsibility. Credit will not be awarded for students who have credit for BTS 400.

**BUS 402. Integrated Strategic Mgmt. (3 Credits)**

I, II. Formerly GBU 480. Prerequisites: CCT 300 or 300W or BUS 301W, CIS 300 or BUS 304, FIN 300 or BUS 302, MGT 300 or BUS 303, 370 or BUS 306, and MKT 300 or BUS 305 (with a grade of "C" or better) in each prerequisite course; senior standing (A minimum of 90 hours) with an overall minimum 2.0 GPA. A student must register for this course after completing all Essentials Series courses. This course synthesizes knowledge, skills, and abilities learned in the Fundamentals Series and Essentials Series courses to provide business students with the capability to manage, lead, and make decisions at all levels of an organization.

**Computer Information Sciences****CIS 212. Introduction to Computer Information Systems. (3 Credits)**

I, II. Introduction to computer system concepts and productivity applications used in the workplace. Topics include the impact of digital technology in personal lives and professional careers, cybersecurity, development of spreadsheets, databases, business letters, and project management.

**CIS 215. Introduction to Business Programming. (3 Credits)**

I, II. Prerequisite: CIS 212 or CIS 240 or INF 104 with a grade of C<sup>+</sup> or better. Introductory computer programming course using an object-oriented programming language to solve business problems. This course will introduce: algorithm concepts and development; object-oriented programming methodologies; language syntax; graphical interface design and event based programming.

**CIS 230. Business Applications of Microcomputers. (3 Credits)**

A. Prerequisite: CIS 212 or CIS 240 or INF 104 or equivalent with a grade of C<sup>-</sup> or better. Advanced word processing, spreadsheets, database management, and presentation software. Credit will not be awarded for both CIS 230 and CSC 314.

**CIS 240. Introduction to Web Information Systems. (3 Credits)**

I, II. Introduction to design and development of Web-based systems. Includes Internet and Web technology; Web development using design procedures, HTML, CSS, and XML; client-side scripting languages, and hands-on experience in webpage authoring. Gen. Ed. VII (QS).

**CIS 250. Business Programming II. (3 Credits)**

I, II. Prerequisite: CIS 215 with a grade of C- or better. Intermediate computer programming course introducing: data structures; file input-output using sequential and random techniques; database access; business report generation; advanced graphical interface design and event based programming.

**CIS 300. Management Information Systems. (3 Credits)**

I, II. Prerequisites: CIS 212, INF 104 or TEC161 with a grade of "C" or better in each course; and an overall minimum of 2.0 GPA. Role of information systems in supporting managers, decision making and organizational goals; planning and managing e-business systems; global competition; social and ethical issues.

**CIS 320. Forensic Computing: Investigations. (3 Credits)**

A. Prerequisite: CIS 212 or CIS 240 or INF 104 or TEC 161 with a grade of "C" or better and junior standing. Provide students with an understanding of digital forensics as used in corporate investigations and criminal/civil litigation. Students learn basic tools and techniques to properly initiate a computer forensics investigation, then acquire and analyze the evidence.

**CIS 325. Forensic Computing: Acquisitions. (3 Credits)**

A. Prerequisite: CIS 212 or CIS 240 or INF 104 or TEC 161 with a grade of "C" or better and junior standing. Students will experience and understand the portion of the digital investigation beginning with digital evidence acquisition, then analysis of the evidence and finally reporting results - implementing various forensic hardware and software including write-blockers and EnCase.

**CIS 335. Data Base Management. (3 Credits)**

I, II. Prerequisite: Junior standing and CIS 212 or INF 104 or TEC 161 or CSC 174 or CSC 190 with a grade of "C" or better. Fundamental concepts of database Processing; conceptual; logical and physical design of databases; the use of SQL for data retrieval and relational database implementation; and data management for the enterprise. (Formerly CIS 435).

**CIS 340. Electronic Business Technologies and Tools. (3 Credits)**

II. Prerequisite: Junior standing and CIS 240 with a grade of "C" or better. The course provides an introduction to e-business infrastructure, tools, and the development of e-business applications with these tools. Topics include Web applications; HTML, XML; client-side and server-side and scripting languages.

**CIS 349. Applied Learning in Computer Information Systems. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work for each credit hour. Three hours may be used as a major elective. May be repeated for a total of 16 credit hours.

**CIS 355. Advanced Business Programming. (3 Credits)**

A. Prerequisite: CIS 250 with a grade of C- or better. An object-oriented computer programming course to solve business problems. This course will introduce: object oriented design; inheritance and composition; advanced interface and component reuse; integration techniques; server-side controls.

**CIS 360. Computer Information Systems Internship. (2-4 Credits)**

A. Prerequisites: GPA of 2.25 and advisor/departmental approval. Practical experience in computer information systems.

**CIS 370. Seminar in Computer Information Systems. (1-3 Credits)**

A. Prerequisite: instructor approval. Selected topics of special and contemporary interest to business students. May be retaken under different subtitles to a maximum of six hours.

**CIS 375. Networks and Telecommunication. (3 Credits)**

A. Prerequisite: Junior Standing and CIS 240 or NET 303 with a grade of "C" or better. The study of networking and telecommunications fundamentals including LANs, WANs, and the Internet. Data communication and telecommunication concepts, models, standards, and protocols are studied. Installation, configuration, and management of infrastructure technologies are practiced.

**CIS 380. Information Systems Analysis and Design. (3 Credits)**

A. Prerequisite: Junior standing and (CIS 215 or CIS 300 with a grade of "C" or better in each course). Systems development life cycle with the emphasis analysis and design. Topics include requirements determination, logical design, physical design, and implementation planning; feasibility analysis; RAD, prototyping, and object-oriented modeling techniques; software package evaluation, acquisition, and integration.

**CIS 400. Electronic Bus Plan & Strategy. (3 Credits)**

I, II. Prerequisite: Junior standing and CIS 300 with a grade of "C". Course covers the theory and practice of electronic business. Emphasizes e-business models and technology, assessing company performance and value; design, promotion, global and social issues. global and social issues.

**CIS 410. Project Management and Practice. (3 Credits)**

I. Prerequisite: Junior standing and CIS 300 or CIS 240 or NET 303 with a grade of "C" or better in each course. This course presents the theory and practice of modern project management. The technical and behavioral aspects of project management and change management are applied within the context of an information systems project.

**CIS 420. Forensic Computing: Network Analysis. (3 Credits)**

I, II. Prerequisites: CIS 212 or NET 303 with a grade of "C" or higher or departmental approval. This course provides students with an understanding of computer forensics, in the context of managing computer networking and wireless networks, as well as in the context of corporate investigations and business litigation. Students learn tools and techniques to investigate network logs, network traffic, and web sites to conduct a forensic investigation.

**CIS 430. Business Data Mining. (3 Credits)**

(3) A. Prerequisites: (CIS 212 or 240 or INF 104 or TEC 161) and (QMB 200 or ECO 220 or STA 215 or STA 270), all with a grade of C or above. Introduces the basic concepts and practical business applications of data mining. Topics include: data types, data patterns, data preprocessing, data cleaning, outlier analysis, features reduction, feature discretization, data integration, data mining process, model estimation, Bayesian inference, regression analysis, classification, and prediction.

**CIS 436. Advanced Database Management. (3 Credits)**

A. Prerequisites: CIS 335 and CIS 215 or CIS 340 with a grade of "C-" or better in each course. An in-depth study of modern data base management to include advanced and current database topics. Coverage includes advanced data modeling and relational database design and implementation to include current technologies and techniques; database programming; database applications development for electronic business.

**CIS 475. Advanced Telecommunications. (3 Credits)**

A. Prerequisite: CIS 375 or permission of instructor. More in-depth coverage of telecommunications and networking to include installation and configuration, managing resources connectivity, running applications, monitoring and optimization, trouble shooting, and resources.

**CIS 480. Information Systems Implem. (3 Credits)**

I, II. Prerequisite: CIS 215, CIS 340, CIS 380, and CIS 335 with a grade of "C-" or better in each class. An in-depth study of systems development life cycle with an emphasis on implementation of an IS project. Students develop program specifications, test plans, code and test a mixed-language software application, and provide system documentation.

**CIS 490. Special Problems in Computer Information Systems. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. Independent study in information systems. May be retaken under different sub-topics to a maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**Economics****ECO 110. The Individual and the Economy. (3 Credits)**

A. Prerequisite: MAT 095 or ACT math score of 18 or SAT math score of 490 or higher. An examination of the nature and role of individual decision making in the economy; the economic environment and the individual's decisions; public policies and the decisions of the individual. Credit will not be awarded to students who have credit for ECO 230 or 231.

**ECO 120. Economic Reasoning and Issues. (3 Credits)**

I, II. Prerequisite: completion of all developmental math requirements. An excellent preparatory course for ECO 230 or 231, dealing with basic concepts of a market-based economy, including scarcity, opportunity cost, comparative advantage, demand and supply, marginal analysis, market failures, economic growth, unemployment, inflation, and international trade. Gen. Ed. E-5B.

**ECO 130. Contemporary Economic Problems. (3 Credits)**

I, II. Prerequisite: completion of developmental math requirements. An excellent preparatory course for ECO 230 or 231, dealing with such contemporary economic problems as unemployment, inflation, national debt, energy, health, pollution, education, crime, poverty, discrimination, and protectionism. Students who have completed ECO 230 or 231 with a grade of C or better, or are currently enrolled in ECO 230 or 231, will not receive credit for ECO 130. Gen. Ed. E-5B.

**ECO 220. Statistical Methods for Economics I. (3 Credits)**

A. Prerequisite: MAT 112 or 114. Business and economic applications of frequency distributions, measures of location, variation; probability, sampling, estimation, test of hypothesis, linear regression, index numbers, and time series analysis. Credit will not be awarded to students who have credit for CRJ 400 or EPY 842 or HEA 450 or PSY 310 or QMB 200 or STA 208 or STA 215 or STA 270.

**ECO 230. Fundamentals of Microeconomics. (3 Credits)**

(3) I, II. Prerequisite: Completion of developmental requirements. For students with a composite ACT score of less than 21, completion of ECO 120 or 130 is strongly recommended prior to taking this course. Microeconomic principles, including the study of opportunity cost, consumer and producer choices, market demand and supply, pricing and resource allocation, comparative advantage and international trade. Gen. Ed. VB, VC, or VII (SBS).

**ECO 231. Fundamentals of Macroeconomics. (3 Credits)**

(3) I, II. Prerequisite: completion of developmental requirements. For students with a composite ACT score of less than 21, completion of ECO 120 or 130 is strongly recommended prior to taking this course. Macroeconomic principles, including the study of measures of national economic performance, determinants of aggregate production, employment and prices, monetary and fiscal policy, balance of payments, economic growth and development. Gen. Ed. VB, VC, or VII (SBS).

**ECO 300. Managerial Economics. (3 Credits)**

A. Prerequisite: ECO 230. Economic concepts that are directly applicable to business decision making including cost and production, profits, demand and pricing, capital budgeting and investment, and forecasting.

**ECO 314. Sports Economics. (3 Credits)**

A. Prerequisite: ECO 230 or departmental approval. Economics applied to sports. Topics include collusive versus competitive behavior, pricing strategies, government subsidies of sports ventures and venues and sports labor markets.

**ECO 315. Economic Policy Analysis. (3 Credits)**

A. Prerequisite: ECO 230. Foundations and rationale for economic policy, including market failure and income inequality. Objectives, evaluation and analysis of selected policies in areas such as international trade, environment, education, health care, welfare, social security, and economic development.

**ECO 320. Research Methods in Economics. (3 Credits)**

I. Prerequisite: ECO 220, STA 270 or QMB 200; ECO 230 and 231; or departmental approval. Combining economic theory and statistical models in empirical work in economics; the linear statistical model and its extensions, application to production and cost, demand, and economic growth, forecasting, and policy analysis; classical time series analysis.

**ECO 324. Money and Banking. (3 Credits)**

A. Prerequisite: ECO 231. Functions of money, monetary systems, history of banking, functions of the commercial bank, bank assets and reserves, loans and discounts, bank supervision, the Federal Reserve System, central banking policies, monetary and fiscal policies.

**ECO 330W. Intermediate Microeconomics. (3 Credits)**

I. Prerequisite: ECO 230 or departmental approval; ENG 102 or ENG 105 (B) or HON 102. A writing-intensive intermediate course in economics. Analysis of consumer and producer behavior, market equilibrium, pricing and resource allocation under alternative market structures, risk aversion and information. Credit will not be awarded to students who have credit for ECO 330.

**ECO 331. Intermediate Macroeconomics. (3 Credits)**

II. Prerequisite: ECO 231. Analysis of aggregate economic activity; consumption, investment, employment, output, money and prices, exports and imports; stabilization policy.

**ECO 333. Human Resource Economics. (3 Credits)**

A. Prerequisite: ECO 230. Economics of human resource markets, including the demand for and supply of labor, human capital formation, household production, unions, discrimination, unemployment, and associated public policy issues.

**ECO 340. Environmental Economics. (3 Credits)**

A. Cross listed as APP 340 and ENV 340. Prerequisite: ECO 230. Applications of basic economic analysis to a study of the environment and environmental problems. Major topics include benefit-cost analysis for environmental decision making, the potential for market-based solutions to environmental problems, and the role and development of environmental policy. Credit will only be awarded for ECO 340 or APP 340 or ENV 340.

**ECO 345. Topics in Economics:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: to be announced. Selected topics for study. Variable topics across semesters. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**ECO 349. Applied Learning in Economics. (0.5-3 Credits)**

A. Prerequisite: minimum GPA 2.25. Cocurricular work experience under faculty and field supervisors. Training plan required. May be retaken to a maximum of six hours. Minimum 80 hours work required for each academic credit hour. May not count towards major.

**ECO 360. Industrial Organization. (3 Credits)**

A. Prerequisite: ECO 230 or equivalent. Studies the strategic interactions of firms in imperfectly competitive markets, market performance, and public policy.

**ECO 365. Public Finance. (3 Credits)**

A. Prerequisite: ECO 230. Economics of the public sector, including the scope of and rationale for government, public goods and externalities, voting schemes and public choice, taxes and subsidies, and transfer payments.

**ECO 370. Health Care Economics. (3 Credits)**

II. Prerequisite: ECO 230 or departmental approval. Introduction to health economics, including the study of the demand for and production of medical care, health care planning, regulation, finance and evaluation.

**ECO 394. International Economics. (3 Credits)**

A. Prerequisites: ECO 230 or 231 and Junior standing. An introduction to international trade and investment theory emphasizing international business, international trade theory, trade and investment patterns, payments system, balance of payments, international companies, and international issues.

**ECO 395. Economics of Developing Countries. (3 Credits)**

A. Prerequisite: ECO 230 or 231 and Junior standing. Economics of development including: theories of growth, income distribution, investment in human capital, alleviation of poverty, strategies for growth; study of selected countries. Credit will not be awarded for both ECO 395 and 395W.

**ECO 395W. Economics of Developing Countries. (3 Credits)**

(3) A. Prerequisites: ECO 230 or 231 and junior standing; ENG 102 or ENG 105(B) or HON 102. Economics of development including: theories of growth, income distribution, investment in human capital, alleviation of poverty, strategies for growth; study of selected countries. Credit will not be awarded for both ECO 395W and 395.

**ECO 410. History of Economic. (3 Credits)**

A. Prerequisites: three hours of ECO. The history of economic ideas from Adam Smith through J. M. Keynes.

**ECO 420. Research Methods II. (3 Credits)**

II. Prerequisite: ECO 320 or departmental approval. Problems of heteroscedasticity, serial correlation, and endogeneity in the linear statistical model; nonlinear models and modern time series analysis. Formulation and execution of empirical research project.

**ECO 430. Mathematical Economics. (3 Credits)**

A. Prerequisites: three hours of ECO and MAT 124, 211, or 261. Mathematical formulations of economic theories. Models of the consumer, the firm, markets, economic growth, and business cycles.

**ECO 492. Business Cycles. (3 Credits)**

A. Prerequisite: ECO 231. Growth, instability, inflation, business cycle theories, spending and saving decisions, government expenditures and tax patterns, prices, output, and employment, historical cyclical patterns, economic forecasting.

**ECO 560. Special Problems in Economics. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. Independent work, special workshop, special topics or seminar. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ECO 590. Regional Economics. (3 Credits)**

A. Prerequisite: three hours of ECO. Analysis of patterns of regional growth and development. Use of economic models for regional forecasting and policy evaluation; the problems of marginal areas in developed economies.

**Finance****FIN 201. Personal Money Management. (3 Credits)**

I, II. A consumer approach to insurance, family budgeting, income taxes, elementary investment principles, and estate planning. Credit will not be awarded to students who have credit for FRM 352.

**FIN 300. Business Finance I. (3 Credits)**

I, II. Prerequisites: ACC 200 or 201, and ECO 230 with a grade of "C" or better in each course. Financial principles with applications to business organizations. Includes firm financial motives, time value of money, risk analysis, elementary capital budgeting, residual dividend policy, elementary capital structure decisions, analysis of financial statements, and international financial considerations.

**FIN 301. Corporate Finance. (3 Credits)**

I, II. Prerequisites: Finance majors only or departmental approval and ACC 200 or ACC 202, ECO 230, MAT 112A and MAT 112B or 114 or 211, and QMB 200 or ECO 220 or STA 215 or STA 270 and FIN 300 with a minimum grade of "C". An in-depth exploration of capital structure (including dividend policy) decisions, working capital management, financial forecasting and planning, the agency problem and its implication for security markets and firm valuation, financial market efficiency.

**FIN 302. Small Business Finance. (3 Credits)**

A. Prerequisite or Corequisite: FIN 301. Equity, debt and venture capital markets for small businesses are examined. Also systems for financial statement generation and internal controls, sources and uses of funds forecasting, short-term asset and liability management, and capital structure decisions are explored. A small firm valuation project will be completed.

**FIN 304. Financial Institutions. (3 Credits)**

I, II. Prerequisite: ACC 201 and FIN 201. A comprehensive overview of the financial institutions industry, with an emphasis on commercial banks.

**FIN 310. Entrepreneurial Finance. (3 Credits)**

I, II. Prerequisites: ACC 200 or ACC 201 or BUS 209 with a grade of "C" or better. Selection of business form, tax planning, financing and cash flow planning; motivating and retaining employees; compensation planning; debt and equity financing; legal, tax and behavioral considerations.

**FIN 311. Personal Financial Planning. (3 Credits)**

I, II. Prerequisites: FIN 201 or 300 or 310, or FRM 352. Time value of money applications; personal financial statements development and assessment; cash flow and debt management; asset acquisition; education planning; planning elements of risk management; investment planning; and retirement planning.

**FIN 315. Financial Statement and Loan Analysis. (3 Credits)**

A. Prerequisites: FIN 304 with a grade of "C" or better in each course. This course introduces the fundamentals of financial analysis for the purpose of credit analysis from the perspective of commercial banks. Students will learn from case studies adapted from real life examples to develop an understanding of credit risk, the development of lending policies and procedures, pricing loans and expectations of risk and return.

**FIN 324. Principles of Investments. (3 Credits)**

A. Prerequisite: FIN 300 or FIN 201 or FIN 310 with a "C" or better. Analysis of the characteristics, valuation, and tax implications of various investments such as common and preferred stock; corporate, federal and municipal debt; mutual funds; money market accounts; options and futures. Explores methods of trading securities.

**FIN 330. Principles of International Finance. (3 Credits)**

A. Prerequisite: FIN 300 with a "C" or better. Financial decision-making processes of multinational corporations; flow of funds; exchange rate determination and forecasting; currency futures and options; international arbitrage; measurement and management of exchange rate exposure; multinational capital budgeting; analysis of country risk.

**FIN 349. Applied Learning in Finance. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work for each credit hour. May be repeated for a total of 16 credit hours.

**FIN 390S. Community Financial Literacy. (3 Credits)**

A. Prerequisites: FIN 201, 301, and 311 with a grade of C or better in each course. Application of financial planning for community members; teaching financial literacy to EKU's service areas and surrounding communities.

**FIN 410. Financial Analysis and Valuation. (3 Credits)**

A. Prerequisite: CCT 300 or CCT 300W and FIN 300 with "C" or better. Exploration of discounted residual earnings as basis for valuation; sources of value creation; methods of forecasting future financial statements. Students are required to produce analyst report for a public company.

**FIN 420. Investment and Portfolio Theory. (3 Credits)**

II. Prerequisites: FIN 301, 324, with a "C" or better. Investment analysis including efficient market theory and empirical investigations, security valuation, risk free borrowing and lending; portfolio selection and performance evaluation are examined. Also included are derivatives valuation and their role in a diversified portfolio.

**FIN 424. Derivatives Valuation and Accounting. (3 Credits)**

A. Prerequisites: FIN 301 with "C" or better; or ACC 302 with "B" or better, and departmental approval. General valuation principles for derivatives, numerical methods of derivative valuation, regulations covering executive stock options, accounting of derivatives. Also covered are special purpose vehicles.

**FIN 437. Bank Management. (3 Credits)**

A. Prerequisites: FIN 304 with a grade of "C" or better. A synthesis of the financial concepts and theories mastered in previous finance courses. The student will develop a quantitative and qualitative understanding of financial institutions management and how decisions are made. This course includes a bank management simulation activity.

**FIN 450. Project in Finance. (1-3 Credits)**

I, II. Prerequisite: departmental approval. Selected topics of special contemporary interest to finance students. Students are required, under supervision of finance faculty, to write a paper on any finance topic of their choice.

**FIN 490. Special Problems in Finance. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. May be retaken under different sub-topics to a maximum of six hours. Independent work, special workshops, special topics, or seminars. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**Management****MGT 201. Introduction to Golf Management. (3 Credits)**

II. Prerequisite: Admission to PGM program, and successful completion of the PGA Qualifying Exam. A survey course that introduces students to the elements of the industry in which a PGA professional must be competent, golf car fleet management; an introduction to business planning, customer relations, merchandising, and turfgrass management.

**MGT 202. Introduction to Golf Instruction. (3 Credits)**

I. Prerequisite: admission to the PGM program, MGT 201 and PGA tests accompanying MGT 201. Introduction to human learning, the teaching process, and the elements of the game. Topics include laws, principles, and preferences of the golf swing, biomechanics, and teaching technologies. The course also addresses golf club performance variables.

**MGT 203. Golf Operations I. (3 Credits)**

II. Prerequisite: admission to PGM, MGT 201, 202 and PGA tests that accompany each class. The fundamental concepts involved in developing a facility's tournament business including promotion, implementation, and review, will be introduced. Students will also gain an in-depth knowledge of the Rules of Golf.

**MGT 204. Golf Operations II. (3 Credits)**

I. Prerequisite: admission to PGM program, MGT 203, and successful completion of all level 1 PGA requirements. An introduction to golf operations; policies and procedures; effectively managing staff resources; and measuring overall performance. The course will also introduce merchandising and inventory management and customer relations concepts.

**MGT 205. Analysis of the Golf Swing. (3 Credits)**

II. Prerequisite: admission to the PGM program, MGT 201, 202, 203 and PGA tests accompanying each class. A focus on techniques that help the student improve his/her golf skills; describes drills, warm-ups, and shot techniques for intermediate students. The course also discusses golf club repair.

**MGT 206. Golf Operations and Administration. (3 Credits)**

I, II. Prerequisites: Successful completion of all Level 2 tests and work experience portfolio activities, MGT 204, 205, and the PGA tests that accompany each class. A study of golf operations and administration to include a deeper look at business planning; the organizational structure and policies and procedures of a golf operation: merchandise management; and a performance system for supervising employees.

**MGT 207. Advance Golf Instruction & Special Programs. (3 Credits)**

I, II. Prerequisite: admission to the PGM program, MGT 201, 202, 203, 204, 205, 206 and the PGA tests that accompany each class. Emphasizes the integration of learning, teaching, and game elements. Covers elements of the mental game and more advanced shot-making. Club fitting procedures will be covered and the development of instructional programs will be introduced.

**MGT 208. PGM Seminar. (2 Credits)**

(2) I, II. Prerequisites: admission to the PGM program, MGT 201, 202, 203, 204, 205, 206 with a grade of "C" or better in each course, and the PGA tests that accompany each class. A study of issues related to career planning and enhancement including industry job market analysis, networking, and professional development. A capstone project requiring research and critical analysis regarding growth of the game, golf operations, and other industry challenges will be presented. Emphasis on integration of knowledge acquired in previous courses. May be retaken up to six hours.

**MGT 210. Golf Operation III. (3 Credits)**

Prerequisites: Successful completion of all Level 2 tests and work experience portfolio activities; MGT 201, 202, 203, 204, 205, 206. A study of the golf car fleet and food service centers as revenue opportunities for a golf facility. Examine the functional design and environmental considerations of turf grass management. Course will include a career enhancement component.

**MGT 300. Principles of Management. (3 Credits)**

I, II. Prerequisites: School of Business or BBA major; junior standing (a minimum of 60 hours) with an overall minimum 2.0 GPA. Management principles with emphasis on organization theory and behavior, human resources and diversity, communications, production/operations management and quality issues, business ethics, development of management thought, management in the global arena, and management career.

**MGT 301. Principles of Management (NB). (3 Credits)**

A. Prerequisite: junior standing (at least 60 hours) with an overall GPA 2.0. Not for students majoring or minoring in business. Management principles with emphasis on organization theory and behavior, human resources and diversity, communications, production/operations management and quality issues, business ethics, development of management thought, management in the global arena, and management careers. Credit will not be awarded to students who have completed MGT 300.

**MGT 320. Human Resource Management. (3 Credits)**

I, II. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" in each prerequisite course). Survey of principles and practices in the areas of human resource planning, job analysis, recruitment, selection, training and development, performance appraisal, compensation, labor relations, safety and health, equal employment opportunity, and personnel research.

**MGT 330. Small Business Management Innovation and Entrepreneurship. (3 Credits)**

A. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" or better in each prerequisite course). This course offers an emphasis on the role of innovation and entrepreneurship in the creation and management of new ideas, concepts, techniques, processes, methods, ventures and knowledge.

**MGT 335. Innovation Lab. (0 Credits)**

Prerequisite: Department Approval. Corequisite/Prerequisite: ACC 200 or ACC 202 or BUS 209, GBU 204 or BUS 204, CCT 270, FIN 310, MGT 300 or 301 or BUS 303 or MKT 300 or MKT 301 or BUS 305, MGT 330. Course identifies value proposition and business model within student's major. Course culminates with professionally prepared business model canvas, pitched to faculty and others.

**MGT 340. Management Science. (3 Credits)**

I, II. Prerequisite: QMB 200 (with a grade of "C" or higher), or STA 215 or STA 270 (with a grade of "C" or higher). Business decision making approaches and quantitative techniques with an emphasis on the formulation and application of models and the practical solution methods available.

**MGT 349. Applied Learning in Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used as upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (all options) are limited to a maximum of nine co-op hours counting toward degree. Co-op hours may be repeated up to nine hours.

**MGT 349A. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (all options) are limited to a maximum of nine co-op hours counting toward degree. Co-op hours may be repeated up to nine hours.

**MGT 349B. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349C. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349D. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349E. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349F. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349G. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349H. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 370. Operations Management. (3 Credits)**

I, II. Prerequisite: MGT 300 (with a minimum grade of "C"). Practical approaches for improving productivity of operations using methods designed for quality management, sales forecasting, facility layout and location, human resource planning and scheduling, and inventory control.

**MGT 375. Supply Chain Management. (3 Credits)**

A. Prerequisite: MGT 300 (with a minimum grade of "C"). The integration of key business processes from end-user through original suppliers that add value for customers and other stakeholders. Topics include: integration and strategic partnering, procurement and outsourcing strategies, value-added services and international challenges.

**MGT 400. Organization Theory. (3 Credits)**

I, II. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" in each prerequisite course). Principles of organization design as they relate to goals and strategy formulation, environmental conditions, technology, job design, control systems, and decision making.

**MGT 406. Continuous Imp in Organization. (3 Credits)**

A. Prerequisites: MGT 300 and QMB 200 or MGT 301 (with a minimum grade of "C" in each prerequisite course). Advanced methods and techniques used to analyze change, monitor, and analyze organizational performances, control resources, and otherwise direct the management of complex organizations.

**MGT 415. Organizational Conflict Navigation. (3 Credits)**

Prerequisite: MGT 300 or 301 (with a minimum grade of "C" in each prerequisite course.) Analysis of organizational conflict situations with a particular focus on the cause and management of such situations. Interactive development of conflict management skillset, application of skillset to conflict situations, and extensive exploration of negotiation.

**MGT 425. Compensation Management. (3 Credits)**

II. Prerequisite: Management Majors with a Human Resource Management Concentration only or departmental approval and MGT 320 (with a minimum grade of "C"). Advanced study of the human resource function of employee compensation. Topics include job analysis and evaluation, compensation surveys, pay structures, budgeting, pay for performance systems, benefits administration, and federal regulation of compensation management.

**MGT 430. International Management. (3 Credits)**

A. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" in each prerequisite course). The study of management of international organizations with emphasis on techniques, processes and structures. Topics include organizational culture, leadership, ethics, decision-making, and human resource management.

**MGT 435. Supply Chain Network Design. (3 Credits)**

I. Prerequisites: MGT 370 (with a minimum grade of "C" in each prerequisite course). Selecting the optimal role, number, location, size and capacity of suppliers, manufacturing facilities, service locations, warehouses, retail stores and other facilities. Modeling of the supply chain to optimize operational decisions and reduce costs.

**MGT 440. Human Resource Development. (3 Credits)**

I. Prerequisite: Management Majors with a Human Resource Management Concentration only or departmental approval and MGT 320 (with a minimum grade of "C"). Advanced study of human resource management functions aimed directly at enhancing organizational effectiveness. Topics include training needs analysis; training program design, implementation, and evaluation; performance management and appraisal; and costing human resource development programs.

**MGT 444. Strategic Sourcing. (3 Credits)**

A. Prerequisite: BUS 306 (with a minimum grade of "C"). Management decisions and tools for the alignment of overall business strategy and purchasing objectives and strategies in the purchasing process as it focuses on supply efficiency and effectiveness. Credit will not be awarded for both MKT 431 and MGT 444.

**MGT 445. Employee Recruitment and Selection. (3 Credits)**

II. Prerequisite: Management Majors only and MGT 320 (with a minimum grade of "C"). Advanced study of the human resource function of staffing. Topics include: recruitment, the design and implementation of effective selection procedures which comply with federal/state requirements; analysis and reporting of employee data.

**MGT 446. Logistics Management. (3 Credits)**

A. Prerequisite: BUS 306 (with a minimum grade of "C"). The management decisions and tools for the movement and storage of goods, including logistics information systems, segmental positioning, order management and fulfillment, inventory, forecasting, and collaborative planning, transpiration, third party logistics, warehousing, materials handling, international logistics, and facility network design. Credit will not be awarded for both MKT 315 and MGT 446.

**MGT 450. Management Management Seminar. (3 Credits)**

A. May be retaken under different sub-topics to a cumulative maximum of nine hours. Selected topics in contemporary management literature.

**MGT 460. Performance Management. (3 Credits)**

I. Prerequisite: Management Majors with a Human Resource Management Concentration only or departmental approval and MGT 320 (with a minimum grade of "C"). Managing employee, team, and organizational performance. Topics include employee feedback, coaching, discipline, team/workgroup effectiveness, workforce and HR analytics, employee engagement, and development of personal competencies for leading and managing people to achieve performance excellence.

**MGT 480. Organization Behavior. (3 Credits)**

I, II. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" in each prerequisite course). Determinants and consequences of behavior in business organizations are analyzed in the contemporary language of administrative social systems and models. Interdependence of economic, social, and behavioral factors is emphasized.

**MGT 490. Special Problems in Management. (1-4 Credits)**

A. Prerequisite: advisor/ departmental approval. May be retaken under different sub-topics to a cumulative maximum of six hours. Independent work, special workshop, special topics, or seminars. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**Marketing****MKT 300. Principles of Marketing. (3 Credits)**

I, II. Prerequisites: School of Business or BBA major; sophomore standing with an overall minimum 2.0 GPA. Overview of strategic processes involved in marketing goods and services to global markets; study of behavioral, organizational, and consumer variables in decision processes; use of the marketing mix and marketing information to affect buyer decisions. Credit will not be awarded to students who have completed MKT 301.

**MKT 301. Principles of Marketing (NB). (3 Credits)**

A. Prerequisite: sophomore standing with an overall GPA of 2.0. Not for students majoring or minoring in business. Overview of strategic processes involved in marketing goods and services to global markets; study of behavioral, organizational, and consumer variables in decision processes; use of the marketing mix and marketing information to affect buyer decisions. Credit will not be awarded to students who have completed MKT 300.

**MKT 306. Services Marketing. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301 (with a minimum grade of "C" in each prerequisite course). Understanding the customer from the services and non-profit marketing perspectives. Examination of marketing inservice industries with emphasis on the unique aspects of services marketing, the service marketing mix and the implementation of services strategies.

**MKT 309. Integrated Marketing Communications. (3 Credits)**

(3) A. Prerequisite: MKT 300 or MKT 301 (with a grade of "C" or better in each prerequisite course). A course covering the theories, strategies, and skills of Integrated Marketing Communication, with a special emphasis on applying IMC to the Internet and World Wide Web (WWW).

**MKT 310. Personal Selling. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301 (with a minimum grade of "C" in each prerequisite course) Personal selling in marketing; the selling process, stressing the modern, international sales/marketing approach to customer society oriented problem solving.

**MKT 315. Logistics. (3 Credits)**

A. Prerequisite: MKT 300 (with a minimum grade of "C"). Movement and storage of goods, coordination and control of inventory, customer service, packaging, materials handling, facilities location, flow of information, and transportation.

**MKT 349. Applied Learning in Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349A. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349B. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349C. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349D. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349E. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349G. Coop Study in Marketing. (1-3 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349H. Coop Study in Marketing. (1-3 Credits)****MKT 350. Consumer Behavior in Marketing. (3 Credits)**

I, II. Prerequisite: MKT 300 or MKT 301 (with a minimum grade of "C" in each prerequisite course). Role of consumer decision-making as it affects the marketing firm; basic concepts of consumer behavior and interrelationships that exist between marketing and the behavioral sciences.

**MKT 370. Sports Marketing. (3 Credits)**

A. Prerequisite: MKT300 or 301. The strategic application of marketing theories and perspectives to the sports industry. Topics include sports franchise promotion, sports identification, consumer loyalty to teams and participation sports, and marketing with the assistance of sports figures.

**MKT 380. Seminar in Marketing. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301. May be retaken under different sub-topics to a cumulative maximum of six hours. Selected topics in contemporary marketing literature.

**MKT 400. International Marketing. (3 Credits)**

(3) I, II. Prerequisite: MKT 300 (with a minimum grade of "C") Determination of marketing strategy by United States firms and multinational corporations for serving foreign markets and for adapting to variations in cultural and economic factors affecting foreign marketing efforts.

**MKT 401. Digital Marketing. (3 Credits)**

A. Prerequisite: MKT 300 or 301 (with a minimum grade of "C" in each prerequisite course). Survey, analysis, and evaluation of current trends and issues in marketing in computer mediated environments, including how the marketing mix is adapted strategically to the Internet and World Wide Web, intranets, and other digital forms of media.

**MKT 404. Retailing Management. (3 Credits)**

A. Prerequisite: MKT 300 or 301 (with a minimum grade of "C" in each prerequisite course). Investigation of current problems faced by retailers in store operations, management, retail buying, and inventory control. Outside readings, oral and written case studies, and field trip experiences are required.

**MKT 408. Sales Management. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301 (with a minimum grade of "C"). Sales function in modern organizations with emphasis on current management techniques: time management, on-the-job coaching, directing the sales force to sell key accounts, situational analysis, and decision-making.

**MKT 420. Marketing of the Arts. (3 Credits)**

A. Prerequisite: MKT300 or MKT301. Essentials of marketing and marketing strategies for the arts organizations and individual artists to reach diverse arts audiences.

**MKT 431. Strategic Procurement. (3 Credits)**

A. Prerequisite: MKT 300 (with a minimum grade of "C"). The purchasing process as it focuses on supply efficiency and effectiveness relating to the fit between purchasing objectives and strategies and organizational objectives and strategies.

**MKT 435. Marketing for Entrepreneurs. (3 Credits)**

I. Prerequisite MKT 300 or 301 (with a minimum grade of "C" in each prerequisite course). Investigation and understanding of the role marketing plays within the entrepreneurial context. Includes discussion and review of tools and approaches for effective planning, implementation and evaluation of business and marketing strategies and tactics. Topics include: product creation, market research, strategic innovation, opportunity identification, customer communication, branding, and channels of distribution.

**MKT 440. Industrial Marketing. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301 (with a grade minimum of "C"). An analysis of the sales and marketing structure for business-to-business products. Product lines, channels of distribution, selling, strategy pricing, wholesaling and distribution.

**MKT 455. Marketing Research and Analysis. (3 Credits)**

I, II. Prerequisites: MKT 300 or MKT 301 and QMB 200 or STA 215 or STA 270 (with a minimum grade of "C" in each prerequisite course). The role of research in marketing decision-making; the research process, with emphasis on collection, analysis, and interpretation of data as applied to solving marketing problems. Students are required to do a research project.

**MKT 456. Qualitative Research in Marketing. (3 Credits)**

(3) A. Prerequisites: MKT 300 or MKT 301 with a minimum grade of "C"; junior or senior standing. Students will learn to design and actively engage in qualitative research projects, collecting and analyzing qualitative data such as interviews, in a marketing context.

**MKT 457. Experimental Design for Marketing. (3 Credits)**

(3) I, II. Prerequisite: BUS 305 or MKT 301 and STA 215 or STA 270 (with a minimum grade of "C" in each prerequisite course). Students will learn how to design an experimental study, collect and analyze the data in a marketing context, and interpret and present the analyses.

**MKT 460. Marketing Management. (3 Credits)**

I, II. Prerequisites: BUS 305 and MKT 401 or MKT 455 or MKT 456 or MKT 457 (with a minimum grade of "C" in each prerequisite course), Marketing Majors with Marketing Option and Senior Standing. The strategic marketing planning process involving analysis of the changing market place; analysis of alternative strategies to meet the needs of target markets; and the profitable execution of the marketing plan.

**MKT 470. Advanced Sales. (3 Credits)**

Departmental approval required, and MKT 300 or MKT 301 (with a minimum grade of "C"). In-depth study and application of aspects of the sales process. Combines classroom knowledge and practical, competitive sales experience. Students invited into this course have demonstrated ability and strong desire to pursue the sales role.

**MKT 481. Internship in Marketing. (3,6 Credits)**

(3 or 6) A. Prerequisites: minimum 2.25 GPA, MKT 300, MGT 300 (with a minimum grade of "C" in each prerequisite course.) and consent of instructor. Provides student with half-time or full-time relevant work experience in marketing. Written assignments and a project are required. May be taken only once for three (3) or six (6) hours of credit and not concurrently with Cooperative Study.

**MKT 490. Special Problems in Marketing:\_\_\_\_. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. May be retaken under different sub-topics to a cumulative maximum of six hours. Independent work, special workshop, social topics, or seminars. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## Risk Management and Insurance

### **RMI 349. Applied Learning in Insurance. (0.5-8 Credits)**

A. Formerly INS 349. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded for INS 349.

### **RMI 349A. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit Will not be awarded for students who have credit for INS 349A.

### **RMI 349B. Coop Study in Insurance. (0.5-8 Credits)**

A. Formlery INS 349B. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded for students who have credit for INS 349B.

### **RMI 349C. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349C. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit can not be awarded to students who have credit for INS 349C.

### **RMI 349D. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349D. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit can not be awarded to students who have credit for INS 349D.

### **RMI 349E. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349E. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded to students who have credit for INS 349E.

### **RMI 349F. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349F. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded to students who have credit for INS 349F.

### **RMI 349G. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349G. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded to students who have credit for INS 349G.

### **RMI 349H. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349H. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded to students who have credit for INS 349H.

### **RMI 350. Survey of Risk Mgmt. & Insur.. (3 Credits)**

Prerequisite: Instructor approval. The examination of risk management and insurance concepts and principles with an emphasis on application. Coverage will include a broad base of current topics and tools used in this dynamic area and provide the student the background for improved decision making in dealing with risk.

### **RMI 370. Principles of Risk and Insurance. (3 Credits)**

I, II. Formerly INS 370. Theory and practice of insurance and its economic and social significance; basic life, health, and property liability insurance for organizations and families; review of the major lines of insurance. Credit will not be awarded to students who have credit for INS 370.

### **RMI 372. Commercial Property Risk Management and Insurance. (3 Credits)**

A. Formerly INS 372. Prerequisite: RMI 370 or instructor approval. Planning and evaluating commercial property risk and the effective management of these risks with insurance; application and analysis of insurance coverage against pure risk related to commercial property insurance exposure. Credit will not be awarded to students who have credit for INS 372.

### **RMI 374. Fundamentals of Life and Health Insurance. (3 Credits)**

A. Formerly INS 374. Prerequisite: RMI 370 or instructor approval. Analysis of life and health insurance and annuity products available in the individual market. Includes a discussion of systems for determining the individual's life and health insurance needs. Credit will not be awarded to students who have credit for INS 374.

### **RMI 376. Excess & Surplus Lines. (3 Credits)**

I, II. Prerequisites: RMI 370 or 372 (with a minimum grade of "C" in either course). The course explains the function of the non-admitted insurers and the policies they issue in the excess and surplus lines market. The course also covers the function and purpose of reinsurance.

### **RMI 378. Risk Management. (3 Credits)**

A. Formerly INS 378. Risk Management as used by organizations; basic functions of risk management with emphasis placed on risk management decision making. Credit will not be awarded to students who have credit for INS 378.

### **RMI 380. Personal Risk Management. (3 Credits)**

A. Formerly INS 380. Prerequisite: RMI 370 or instructor approval. An intensive examination of personal loss exposures and their treatment. Emphasized is the use of risk management techniques. Topics include property and liability loss exposures for personal automobile, homeowners, premature death, illness, accidental injury, superannuation, investment risks, and estate planning. Credit will not be awarded to students who have credit for INS 380.

### **RMI 382. Claim Handling Principles and Practices. (3 Credits)**

A. Prerequisites: 60 hours or departmental approval. Course covers how to apply claims handling principles and claim investigation techniques including; the claim function and professional ethics, handling process, investigation, documentation requirements, negotiation and settlement, and application of the unfair claims practices act.

**RMI 400. Seminar in Insurance. (1-3 Credits)**

A. Formerly INS 400. Prerequisite: instructor approval. Selected topics of special and contemporary interest to insurance majors. May be retaken under different subtitles to a maximum of six hours. Credit will not be awarded to students who have credit for INS 400.

**RMI 462. Business Law for Insurance. (3 Credits)**

A. Prerequisites: RMI 370 and 372 (with a grade of "C" or better in each course). Covers the law of contracts, property, UCC, torts and agency as specifically applicable to the insurance industry.

**RMI 474. Life Insurance and Estate Planning. (3 Credits)**

A. Formerly INS 474. Prerequisite: RMI 374 or instructor approval. Role of life insurance, gifting and trusts in estate planning; considerations of developing an estate plan for the individual or the family. Credit will not be awarded to students who have credit for INS 474.

**RMI 476. Employee Benefit Planning. (3 Credits)**

A. Prerequisite: RMI 370 or instructor approval. Employee benefit plans including taxation, costs, and choices of funding. Includes an analysis of the role of employee benefit plans in meeting the risks of death, sickness, disability and superannuation. Credit will not be awarded to students who have credit for INS 476.

**RMI 486. Insurance Company Operations. (3 Credits)**

A. This course examines unique insurance functions including underwriting, reinsurance, ratemaking, claims adjusting, loss control and other insurer activities. It will prepare the student for an examination administered by the American Institute for CPCU. Capstone course. Credit will not be awarded to students who have credit for INS 486.

**RMI 490. Independent Study. (1-6 Credits)**

A. Formerly INS 490. Prerequisite: advisor/departmental approval. May be retaken under different sub-topics to a maximum of six hours. Independent work, special workshops, special topics, or seminars. Student must have the independent study course proposal form approved by faculty supervisor and department chair prior to enrollment. Credit will not be awarded to students who have credit for INS 490.

## Accounting, Bachelor of Business Administration with a Concentration in Management Accounting (B.B.A.)

Accounting is one of the key functions for almost any business. Accounting is the systematic and comprehensive recording of financial transactions pertaining to a business. Accounting also refers to the process of summarizing, analyzing, and reporting these transactions to oversight agencies, regulators, and tax collection entities. The reports generated by various streams of accounting, such as cost accounting and management accounting, are invaluable in helping management make informed business decisions.

### Management Accounting Concentration

Management Accountants apply their professional knowledge and skill in the preparation and presentation of financial and other decision-oriented information in such a way as to assist managers in formulation of policies and planning and control of the organization's operations. In our Management Accounting Concentration, students learn the skills to specialize in areas such as Information Management, Treasury, Efficiency Auditing, Marketing, Valuation, Pricing, and Logistics.

## Program Requirements

CIP Code: 52.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
	Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT - Accounting majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting Requirements)		
BUS 402	Integrated Strategic Mgmt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3

BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Major Core</b>		
ACC 251	Introduction to Accounting Information Systems	3
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 322	Tax I	3
or ACC 322S	Tax I	
ACC 327	Cost Accounting	3
ACC 350	Accounting Information Systems and Analytics	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		12-15
Public Accounting		
Management Accounting		
<i>Free Electives</i>		
Choose from four-seven hours of free electives		4-7
<b>Total Hours</b>		<b>117-123</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ACC 527	Advanced Management Accounting Seminar	3
CIS 430	Business Data Mining	3
FIN 301	Corporate Finance	3
FIN 410	Financial Analysis and Valuation	3
Choose from three hours of the following:		3
ACC 349	Applied Learning in Accounting	

ACC 521	Government and Not-For-Profit Accounting
ACC 523	Taxation of Corporations
ECO 324	Money and Banking
MGT 375	Supply Chain Management
Other upper-level course approved by advisor	
<b>Total Hours</b>	<b>15</b>

## Accounting, Bachelor of Business Administration with a Concentration in Public Accounting (B.B.A.)

Accounting is one of the key functions for almost any business. Accounting is the systematic and comprehensive recording of financial transactions pertaining to a business. Accounting also refers to the process of summarizing, analyzing, and reporting these transactions to oversight agencies, regulators, and tax collection entities. The reports generated by various streams of accounting, such as cost accounting and management accounting, are invaluable in helping management make informed business decisions.

## Public Accounting Concentration

Certified Public Accountant (CPA) is a license awarded to an individual meeting the educational and experience requirement under state law. CPAs provide accounting services to the public. In our Public Accounting Concentration, students can learn the skills to specialize in Auditing, Taxation, Management Consulting Services, Forensic Accounting, Litigation Support, Financial Planning, and Business Valuation.

## Certificate in Accounting

The Certificate in Accounting is designed to prepare individuals who have a bachelor's degree, but not in Accounting, for entry into the Public Accounting profession. Our Certificate in Accounting program satisfies the Kentucky State requirement that individuals taking the CPA Exam have a bachelor's degree in accounting **or the equivalent**. Graduates with a Certificate in Accounting from ECU have been accepted by the Kentucky State Board of Accountancy as having the equivalent of an Accounting degree.

## Program Requirements

CIP Code: 52.0301

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		

A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Accounting majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting Requirements)		
BUS 402	Integrated Strategic Mgmt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		

MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Major Core</b>		
ACC 251	Introduction to Accounting Information Systems	3
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 322	Tax I	3
or ACC 322S	Tax I	
ACC 327	Cost Accounting	3
ACC 350	Accounting Information Systems and Analytics	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		12-15
Public Accounting		
Management Accounting		
<i>Free Electives</i>		
Choose from four-seven hours of free electives		4-7
<b>Total Hours</b>		<b>117-123</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ACC 441	Auditing I	3
Choose from nine hours of the following:		
ACC 349	Applied Learning in Accounting (maximum of three hours toward concentration requirements)	9
ACC 425	Accounting Theory	
ACC 440	Legal Aspects of Accounting	
ACC 490	Independent Study	
ACC 501	International Accounting and Combinations	
ACC 521	Government and Not-For-Profit Accounting	
ACC 523	Taxation of Corporations	
ACC 525	Forensic Accounting	
ACC 590	Special Topics in Accounting:___	
Any non-accounting course approved by advisor		
<b>Total Hours</b>		<b>12</b>

## Accounting, Certificate

The Certificate in Accounting is offered to undergraduate students and students with a prior bachelor's degree. For undergraduates, this program will provide accounting skills and knowledge to enhance professional and career opportunities in the accounting profession. When combined with a non-accounting degree, the certificate satisfies the Kentucky requirement for the CPA exam of 150 credit hours and a concentration in accounting.

At least 15 of the 30 hours in the major requirements must be earned at EKU. Students pursuing the Certificate in Accounting must earn a "C"

or better in all courses comprising the certificate, and completion of the following courses:

## Program Requirements

CIP Code: 52.0301

Code	Title	Hours
<b>Supporting Course Requirements</b>		
BUS 204	Fundamentals of Business Law and Ethics	3
BUS 206	Fund of Prob Solving w Excel	3
Choose from one of the following:		3
MAT 112	Algebra with Applications	
MAT 114	College Algebra	
MAT 211	Applied Calculus	
<b>Major Requirements</b>		
BUS 209	Fundamentals of Financial and Managerial Accounting	3
ACC 251	Introduction to Accounting Information Systems	3
ACC 301	Intermediate Accounting I	3
ACC 302	Intermediate Accounting II	3
ACC 322	Tax I	3
or ACC 322S	Tax I	
ACC 327	Cost Accounting	3
ACC 350	Accounting Information Systems and Analytics	3
ACC 441	Auditing I	3
Choose from six hours of 300-500 level Accounting courses		6
<b>Total Hours</b>		<b>39</b>

## Banking and Financial Services, Certificate

This certificate is offered to all undergraduate students and returning industry professionals seeking a deeper understanding of the services offered by banks and other financial firms. This certificate is designed to give a key understanding of the foundational concepts of personal finance, banking, investments, financial planning, valuation, and analysis. Students pursuing the Certificate in Banking and Financial Services must earn a "C" or better in all courses comprising the certificate. The certificate consists of the following courses with 50 percent taken in residence at ECU.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
Choose from one of the following:		3
ACC 200	Survey of Accounting	
ACC 201	Introduction to Financial Accounting	
BUS 209	Fundamentals of Financial and Managerial Accounting	
ECO 231	Fundamentals of Macroeconomics	3
ECO 324	Money and Banking	3
FIN 201	Personal Money Management	3
FIN 304	Financial Institutions	3
FIN 315	Financial Statement and Loan Analysis	3

FIN 324	Principles of Investments	3
FIN 437	Bank Management	3
<b>Total Hours</b>		<b>24</b>

## Banking and Financial Services, Minor

Designed to provide students with an understanding of monetary policy and its impact on our economy, global financial markets, and the structure and operation of financial institutions. This coursework will prepare students to understand current events related to financial markets and institutions, how to optimally utilize the corporate and consumer products and services provided by financial institutions and management of financial institutions. Students must earn at least 12 of the 24 hours required for the minor in residence at ECU and must earn a "C" or better in all courses for the minor.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
ECO 324	Money and Banking	3
FIN 201	Personal Money Management	3
FIN 304	Financial Institutions	3
FIN 315	Financial Statement and Loan Analysis	3
FIN 324	Principles of Investments	3
FIN 437	Bank Management	3
<b>Total Hours</b>		<b>18</b>

## Business, Minor

The Business Minor is offered for students majoring in programs other than Business. To enroll in an upper-division business course, students must have met the prerequisite of the specific course. Students minoring in business must earn at least 12 of the total hours used for the minor in residence at ECU and must earn a grade of "C" or higher in all courses comprising the minor.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
BUS 101	Nature of Business	3
BUS 206	Fund of Prob Solving w Excel	3
ACC 200	Survey of Accounting	3
or ACC 201	Introduction to Financial Accounting	
or BUS 209	Fundamentals of Financial and Managerial Accounting	
ECO 230	Fundamentals of Microeconomics	3
Choose from one of the following:		3
BUS 204	Fundamentals of Business Law and Ethics	
BUS 301W	Fundamentals of Formal Commun.	
Choose from two of the following:		6
BUS 302	Essentials of Finance	
BUS 304	Essentials of MIS	
MGT 301	Principles of Management (NB)	

MKT 301	Principles of Marketing (NB)	
<b>Total Hours</b>		<b>21</b>

## Computer Information Systems, Bachelor of Business Administration with a Concentration in General Computer Information Systems (B.B.A.)

A Bachelor of Business Administration degree in Computer Information Systems (CIS) focuses on the applications and implications of computing in the world of business. We have two areas for students to concentrate their skills: General Computer Information Systems and Network Management.

### General Computer Information Systems Concentration

The General CIS Concentration prepares students for careers as IT Manager, Project Manager, Systems Analyst, Data Analyst, and Data Base Engineer. Students learn skills such as data mining, e-business technology, forensic computing, and project management.

### Program Requirements

CIP Code: 52.1201

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	

BUS 100	Professional Development One	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Computer Information System majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
BUS 402	Integrated Strategic Mgmt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Major Core</b>		
CIS 215	Introduction to Business Programming	3
CIS 240	Introduction to Web Information Systems	3
CIS 335	Data Base Management	3
CIS 340	Electronic Business Technologies and Tools	3
CIS 375	Networks and Telecommunication	3

CIS 380	Information Systems Analysis and Design	3
CIS 410	Project Management and Practice	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
General Computer Information Systems		
Network Management		
<b>Free Electives</b>		
Choose from seven hours of free electives		7
<b>Total Hours</b>		<b>120</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from nine hours of the following:		9
CIS 320	Forensic Computing: Investigations	
CIS 325	Forensic Computing: Acquisitions	
CIS 349	Applied Learning in Computer Information Systems (up to a maximum of 3 hours)	
CIS 420	Forensic Computing: Network Analysis	
CIS 430	Business Data Mining	
CIS 475	Advanced Telecommunications	
Upper-division course approved by the department		
<b>Total Hours</b>		<b>9</b>

# Computer Information Systems, Bachelor of Business Administration with a Concentration in Network Management (B.B.A.)

A Bachelor of Business Administration degree in Computer Information Systems (CIS) focuses on the applications and implications of computing in the world of business. We have two areas for students to concentrate their skills: General Computer Information Systems and Network Management.

## Network Management Concentration

The General Network Management Concentration prepares students for careers as Network Administrator, Network Specialist, Network Security Consultant, Technical Support Representative, IT Support Administrator, and Computer Network Support Specialist. Students learn skills such as managing networks, installing and configuring networks, monitoring network activity, managing network resources, and investigating network activity.

## Program Requirements

CIP Code: 52.1201

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Computer Information System majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
BUS 402	Integrated Strategic Mgmt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		

BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmnt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Major Core</b>		
CIS 215	Introduction to Business Programming	3
CIS 240	Introduction to Web Information Systems	3
CIS 335	Data Base Management	3
CIS 340	Electronic Business Technologies and Tools	3
CIS 375	Networks and Telecommunication	3
CIS 380	Information Systems Analysis and Design	3
CIS 410	Project Management and Practice	3
<i>Concentrations</i>		
Students must select one of the following Concentrations: 9		
General Computer Information Systems		
Network Management		
<i>Free Electives</i>		
Choose from seven hours of free electives 7		
<b>Total Hours</b>		<b>120</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CIS 420	Forensic Computing: Network Analysis	3
or CIS 475	Advanced Telecommunications	
Choose from three hours of the following: 3		
NET 343	Network Switches & Routers	
NET 354	Microcomputer & Network Security	
NET 403	Advanced LANSs and PC Communication	
Choose from three hours of the following: 3		
CIS 349	Applied Learning in Computer Information Systems	

CIS 420	Forensic Computing: Network Analysis
CIS 475	Advanced Telecommunications
NET 343	Network Switches & Routers
NET 354	Microcomputer & Network Security
NET 403	Advanced LANSs and PC Communication
Upper-division course approved by the department	
<b>Total Hours</b>	<b>9</b>

**Computer Information Systems, Minor**

A minor in computer information systems is offered for students in both business and non-business programs.

Students must earn at least 9 of the 18 hours required for the minor in residence at EKU. Must earn a "C" or better in all courses for the minor.

**Program Requirements**

The minor consists of 18 hours of computer information systems courses including:

Code	Title	Hours
<b>Required Courses</b>		
CIS 215	Introduction to Business Programming	3
CIS 240	Introduction to Web Information Systems	3
CIS 335	Data Base Management	3
CIS 375	Networks and Telecommunication	3
CIS 380	Information Systems Analysis and Design	3
Upper-division courses approved by the department		3
<b>Total Hours</b>		<b>18</b>

**Corporate Communication, Certificate**

The Certificate in Corporate Communication is offered for all students who need to increase their professional communication effectiveness in their field of study. The Certificate is designed to provide training in international communication, oral and written business presentations, research and reporting, and production of business publications. These skills are transferable to any profession and are crucial in tasks such as communicating organizational change, establishing and implementing goals, communicating internally, relating to employees, dealing with the public, and addressing the stakeholders during crisis. Students must earn at least 9 of the 12 hours required for the certificate in residence at EKU and must earn a "C" or better in all courses comprising the certificate.

**Program Requirements**

Code	Title	Hours
<b>Required Courses</b>		
BUS 207	Fund of Interpersonal Bus Comm	3
or CCT 201	Professional Communication	
BUS 301W	Fundamentals of Formal Commun.	3
or CCT 300W	Managerial Reports	
CCT 310	International Business Communication	3

CCT 550/750	Integrated Corporate Communication	3
<b>Total Hours</b>		<b>12</b>

## Finance, Bachelor of Business Administration with a Concentration in Banking and Financial Services (B.B.A.)

The field of finance includes activities associated with banking, debt, credit, capital markets, money, and investments. Finance represents money management and the process of acquiring needed funds. It also encompasses the oversight, creation, and study of money, banking, credit, investments, assets, and liabilities that make up financial systems. Since individuals, businesses, and government entities all need funding to operate, the finance field includes three main sub-categories:

- personal finance,
- corporate finance, and
- public (government) finance.

## Banking and Financial Services Concentration

The Banking and Financial Services Concentration prepares students for a broad range of careers in commercial banking, investment banking, financial technology, bank consulting, bank regulation and policy positions in federal and state government, and other financial service providers. In this program, students develop a strong foundation in economics, financial markets, investments, consumer and commercial credit analysis, bank management, community engagement, and customer relationship development. Students in this program will have the opportunity to sit for the Credit Analysis Certification Exam.

## Program Requirements

CIP Code: 52.0801

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Finance majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
BUS 402	Integrated Strategic Mgmnt	
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 100	Professional Development One <sup>1</sup>	
BUS 300	Professional Development Three <sup>1</sup>	
BUS 400	Professional Development Four <sup>1</sup>	
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmnt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3

Tools of Business

MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	

Choose from one of the following:

MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4

**Major Core**

FIN 201	Personal Money Management	3
FIN 301	Corporate Finance	3
FIN 304	Financial Institutions	3
FIN 324	Principles of Investments	3
FIN 420	Investment and Portfolio Theory	3

*Concentrations*

Students must select one of the following Concentrations: 15

<b>Business Finance</b>		
	Banking and Financial Services	
<b>Financial Planning</b>		

*Free Electives*

Choose from seven hours of free electives 7

**Total Hours 120**

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

1  
Hours for BUS 100 Professional Development One, BUS 300 Professional Development Three and BUS 400 Professional Development Four included above

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
FIN 315	Financial Statement and Loan Analysis	3
FIN 437	Bank Management	3
ECO 324	Money and Banking	3
RMI 370	Principles of Risk and Insurance	3
Choose from three hours of upper-division Finance classes or other upper-division classes as approved by the department		3
<b>Total Hours</b>		<b>15</b>

# Finance, Bachelor of Business Administration with a Concentration in Business Finance (B.B.A.)

The field of finance includes activities associated with banking, debt, credit, capital markets, money, and investments. Finance represents money management and the process of acquiring needed funds. It also encompasses the oversight, creation, and study of money, banking, credit, investments, assets, and liabilities that make up financial systems. Since individuals, businesses, and government entities all need funding to operate, the finance field includes three main sub-categories:

- personal finance,
- corporate finance, and
- public (government) finance.

## Business Finance Concentration

The Business Finance Concentration is designed for the broadest options in your academic career. While all finance students learn corporate finance, financial institutions, investments, and valuation; the business finance concentration gives the student the option of selecting additional courses to focus on further areas as desired.

## Program Requirements

CIP Code: 52.0801

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Finance majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
BUS 402	Integrated Strategic Mgmt	
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1

*Business Core Courses*

Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 100	Professional Development One <sup>1</sup>	
BUS 300	Professional Development Three <sup>1</sup>	
BUS 400	Professional Development Four <sup>1</sup>	
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Major Core</b>		
FIN 201	Personal Money Management	3
FIN 301	Corporate Finance	3
FIN 304	Financial Institutions	3
FIN 324	Principles of Investments	3
FIN 420	Investment and Portfolio Theory	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		15
Business Finance		
Banking and Financial Services		
Financial Planning		
<i>Free Electives</i>		
Choose from seven hours of free electives		7
<b>Total Hours</b>		<b>120</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

<sup>1</sup>

Hours for BUS 100 Professional Development One, BUS 300 Professional Development Three and BUS 400 Professional Development Four included above

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
RMI 370	Principles of Risk and Insurance	3
Choose from 12 hours of upper-division Finance classes or other upper-division classes as approved by the department		12
<b>Total Hours</b>		<b>15</b>

## Finance, Bachelor of Business Administration with a Concentration in Financial Planning (B.B.A.)

The field of finance includes activities associated with banking, debt, credit, capital markets, money, and investments. Finance represents money management and the process of acquiring needed funds. It also encompasses the oversight, creation, and study of money, banking, credit, investments, assets, and liabilities that make up financial systems. Since individuals, businesses, and government entities all need funding to operate, the finance field includes three main sub-categories:

- personal finance,
- corporate finance, and
- public (government) finance.

### Financial Planning Concentration

The Financial Planning Concentration provides a broad education in finance. Students graduating with a degree in Financial Planning are employed in diverse fields such as financial security brokerage, bank management, credit counseling, securities analysis, investment banking, and corporate management. Students learn how to manage cash flow and debt, analyze and manage personal risk, plan and manage investments, prepare a retirement plan, trade stocks and bonds, etc.

### Program Requirements

CIP Code: 52.0801

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3

<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Finance majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
BUS 402	Integrated Strategic Mgmnt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmnt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		

ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Major Core</b>		
FIN 201	Personal Money Management	3
FIN 301	Corporate Finance	3
FIN 304	Financial Institutions	3
FIN 324	Principles of Investments	3
FIN 420	Investment and Portfolio Theory	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		15
Business Finance		
Banking and Financial Services		
Financial Planning		
<i>Free Electives</i>		
Choose from seven hours of free electives		7
<b>Total Hours</b>		<b>120</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ACC 322	Tax I	3
FIN 311	Personal Financial Planning	3
RMI 370	Principles of Risk and Insurance	3
RMI 374	Fundamentals of Life and Health Insurance	3
RMI 474	Life Insurance and Estate Planning	3
or RMI 476	Employee Benefit Planning	
<b>Total Hours</b>		<b>15</b>

## Financial Literacy, Certificate

The Certificate in Financial Literacy is offered for all undergraduate students who need to increase their ability to make sound financial decisions. The Certificate is designed to teach personal finance, financial planning, and risk management under different economic forces. There is particular emphasis in how the planning process can change how an individual addresses different predicaments, particularly under risk.

Furthermore, students will be involved in the financial planning process with hands-on projects and gain valuable experience that will prepare them to address the needs of individuals and small businesses. Students must earn at least 6 of the 12 hours required for the certificate in residence at EKU and earn a "C" or better in all courses comprising the certificate.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
ACC 200 or BUS 209	Survey of Accounting Fundamentals of Financial and Managerial Accounting	3
FIN 201	Personal Money Management	3
RMI 370	Principles of Risk and Insurance	3
FIN 311 or ACC 322 or ECO 230	Personal Financial Planning Tax I Fundamentals of Microeconomics	3
<b>Total Hours</b>		<b>12</b>

# General Business, Bachelor of Business Administration with a Concentration in Business and Marketing Education/Teaching (B.B.A.)

## Program Requirements

CIP Code: 52.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
BUS 100	Professional Development One	1

Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - General Business majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)

BUS 402 Integrated Strategic Mgmt

Business and Marketing Education/Teaching concentration will fulfill with the following. (Credit hours will be counted in Professional Education requirements below.)

CED 499 Clinical VI: The Professional Semester

### Major Requirements

GPA Requirement for Business and Marketing Education/Teaching concentration: Minimum 2.75 for business teaching core and supporting courses, 2.75 for professional education requirements courses with a grade of C or better, and meet all requirements for student teaching.

#### Business Core Courses

##### Professional Development Series:

BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1

##### Nature of Business:

BUS 101	Nature of Business	3
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##### Fundamentals Series: Environment and Tools of Business

Choose from four hours of the following: 4

##### Environment of Business

BUS 204	Fundamentals of Business Law and Ethics	
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##### Tools of Business

BUS 206	Fund of Prob Solving w Excel	
BUS 207	Fund of Interpersonal Bus Comm	
BUS 209	Fundamentals of Financial and Managerial Accounting	

##### Essential Series: Functions of Business

BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3

##### Mastery of Business:

BUS 402	Integrated Strategic Mgmt	3
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##### Supporting Course Requirements

##### Fundamentals Series: Environment and Tools of Business

Element 2, three hours, and Element 5B, three hours, included above

##### Environment of Business

ECO 230 Fundamentals of Microeconomics (Element 5B) <sup>G</sup>

ECO 231	Fundamentals of Macroeconomics	3
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##### Tools of Business

MAT 112A Algebra: Polynomials (Element 2) <sup>G</sup>

MAT 112B Algebra: Functions & Matrices (Element 2) <sup>G</sup>

Choose from one of the following:

MAT 114 College Algebra (Element 2) <sup>G</sup>

MAT 211 Applied Calculus (Element 2) <sup>G</sup>

STA 270	Applied Statistics	4
<b>Concentrations</b>		
Students must select one of the following Concentrations:		24-46
<b>General Business</b>		
International Business		
<b>Global Supply-Chain Management</b>		
Corporate Communication and Technology		
<b>Business and Marketing Education/Teaching</b>		
<i>Free Electives</i>		
Choose from 0-3 hours of free electives		0-3
<b>Total Hours</b>		<b>99-124</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

Candidates earning a degree that leads to teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year ([www.ets.org/praxis](http://www.ets.org/praxis) (<http://www.ets.org/praxis/>)).

Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
CCT 270	Entrepreneurship	3
CCT 304S	Applied Entrepreneurship and Service Learning	3
Choose from one of the following:		3
MKT 310	Personal Selling	
MKT 400	International Marketing	
MKT 435	Marketing for Entrepreneurs	
<b>Professional Education Requirements</b>		
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	2-3
EMS 300W	Curriculum and Instructional Design	1-3
EMS 474	Disciplinary Literacy	1-3
EMS 490	Classroom & Behavior Management	1-3
ESE 573	Teaching Business and Marketing in Middle and Secondary Schools	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
EDC 300	Differentiation in Inclusive Classrooms	3
<i>Clinical Experiences</i>		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1

CED 499	Clinical VI: The Professional Semester	9
<b>Total Hours</b>		<b>39-46</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

## General Business, Bachelor of Business Administration with a Concentration in Corporate Communication and Technology (B.B.A.)

### Program Requirements

CIP Code: 52.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - General Business majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)		
BUS 402	Integrated Strategic Mgmnt	

Business and Marketing Education/Teaching concentration will fulfill with the following. (Credit hours will be counted in Professional Education requirements below.)

CED 499	Clinical VI: The Professional Semester	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Choose from four hours of the following:		4
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	
BUS 207	Fund of Interpersonal Bus Comm	
BUS 209	Fundamentals of Financial and Managerial Accounting	
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmnt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<i>Concentrations</i>		
Students must select one of the following Concentrations:		24-46
General Business		
International Business		
Global Supply-Chain Management		
Corporate Communication and Technology		
Business and Marketing Education/Teaching		
<i>Free Electives</i>		

Choose from 0-3 hours of free electives

0-3

**Total Hours****99-124****G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CCT 270	Entrepreneurship	3
CCT 304S	Applied Entrepreneurship and Service Learning	3
CCT 310	International Business Communication	3
CCT 550	Integrated Corporate Communication	3
CCT 570	Web Design for Offices	3
GBU 201	International Business	3
MGT 480	Organization Behavior	3
Choose from three hours of the following:		3
MKT 309	Integrated Marketing Communications	
MKT 400	International Marketing	
MKT 401	Digital Marketing	
Choose from three hours of the following:		3
MGT 320	Human Resource Management	
MGT 330	Small Business Management Innovation and Entrepreneurship	
MGT 465		
<b>Total Hours</b>		<b>27</b>

## General Business, Bachelor of Business Administration with a Concentration in General Business (B.B.A.)

### Program Requirements

CIP Code: 52.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3

**Element 6**

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
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**University Graduation Requirements**

General Education	36
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*Student Success Seminar*

BUS 100	Professional Development One	1
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Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - General Business majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)

BUS 402	Integrated Strategic Mgmnt	
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Business and Marketing Education/Teaching concentration will fulfill with the following. (Credit hours will be counted in Professional Education requirements below.)

CED 499	Clinical VI: The Professional Semester	
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**Major Requirements**

*Business Core Courses*

Professional Development Series:

BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1

Nature of Business:

BUS 101	Nature of Business	3
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Fundamentals Series: Environment and Tools of Business

Choose from four hours of the following:	4
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Environment of Business

BUS 204	Fundamentals of Business Law and Ethics	
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Tools of Business

BUS 206	Fund of Prob Solving w Excel	
BUS 207	Fund of Interpersonal Bus Comm	
BUS 209	Fundamentals of Financial and Managerial Accounting	

Essential Series: Functions of Business

BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3

Mastery of Business:

BUS 402	Integrated Strategic Mgmnt	3
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*Supporting Course Requirements*

Fundamentals Series: Environment and Tools of Business

Element 2, three hours, and Element 5B, three hours, included above Environment of Business

ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3

**Tools of Business**

MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	

Choose from one of the following:

MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4

*Concentrations*

Students must select one of the following Concentrations: 24-46

General Business	
International Business	
Global Supply-Chain Management	
Corporate Communication and Technology	
Business and Marketing Education/Teaching	

*Free Electives*

Choose from 0-3 hours of free electives	0-3
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<b>Total Hours</b>	<b>99-124</b>
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**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

**Concentration**

Code	Title	Hours
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**Concentration Courses**

GBU 201	International Business	3
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Choose from three hours of the following: 3

MKT 306	Services Marketing	
MKT 309	Integrated Marketing Communications	
MKT 310	Personal Selling	
MKT 350	Consumer Behavior in Marketing	
MKT 400	International Marketing	
MKT 401	Digital Marketing	
MKT 435	Marketing for Entrepreneurs	

Choose from three hours of the following: 3

ECO 324	Money and Banking	
FIN 304	Financial Institutions	
FIN 310	Entrepreneurial Finance	
FIN 311	Personal Financial Planning	
FIN 324	Principles of Investments	
FIN 330	Principles of International Finance	

Choose from three hours of the following: 3

MGT 320	Human Resource Management	
MGT 330	Small Business Management Innovation and Entrepreneurship	
MGT 406	Continuous Imp in Organization	
MGT 430	International Management	
MGT 470		

One approved upper-division course from FIN, MKT, or MGT 3

Choose from nine hours of approved business electives from the following prefixes: ACC, CCT, CIS, FIN, GBU, MGT, MKT, RMI

**Total Hours** 24

# General Business, Bachelor of Business Administration with a Concentration in International Business (B.B.A.)

## Program Requirements

CIP Code: 52.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - General Business majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)		
BUS 402	Integrated Strategic Mgmt	
Business and Marketing Education/Teaching concentration will fulfill with the following. (Credit hours will be counted in Professional Education requirements below.)		
CED 499	Clinical VI: The Professional Semester	

### Major Requirements

<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Choose from four hours of the following:		4
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	
BUS 207	Fund of Interpersonal Bus Comm	
BUS 209	Fundamentals of Financial and Managerial Accounting	
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<i>Concentrations</i>		
Students must select one of the following Concentrations:		24-46
General Business		
International Business		
Global Supply-Chain Management		
Corporate Communication and Technology		
Business and Marketing Education/Teaching		
<i>Free Electives</i>		
Choose from 0-3 hours of free electives		0-3
<b>Total Hours</b>		<b>99-124</b>

**G** Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
GBU 201	International Business	3
Choose from six hours of foreign language		6
CCT 310	International Business Communication	3
FIN 330	Principles of International Finance	3
MGT 430	International Management	3
MKT 400	International Marketing	3
Choose from six hours of business credit which will include course of study and/or internship in a foreign country <sup>1</sup>		6
<b>Total Hours</b>		<b>27</b>

1

Exemptions from the foreign study requirement are available only with the chairperson approval. International students may choose to fulfill this requirement through internships, cooperative education, or approved upper-division courses in business or economics (ECO 394 International Economics).

## Global Supply Chain Management, Certificate

The Certificate in Global Supply Chain Management is offered for all undergraduate students who need to increase their quantitative and analytical skills in context of problems that firms face in the core supply chain areas of Planning, Sourcing, Making, and Delivering. The growth in globalization has led to firms competing on multiple aspects - multi-focused planning, competitive sourcing of inputs, streamlined manufacturing, and efficient delivery to customers. As such there is tremendous need for strong supply chain management skills. The Certificate is designed to provide training in the key areas above.

Furthermore, students will be involved in quantitative analysis of comparing various scenarios and understanding multiple elements of total supply chain cost. Students will be prepared to address the needs of businesses and organizations across all industries, both domestically and internationally. Students must earn at least 6 of the 12 hours required for the certificate in residence at EKU and earn a "C" or better in all courses comprising the certificate.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
MGT 446	Logistics Management <sup>1</sup>	3
MGT 370	Operations Management <sup>1</sup>	3
or BUS 306	Essentials of Supply Chain Mgt	
MGT 375	Supply Chain Management <sup>1</sup>	3
MGT 444	Strategic Sourcing <sup>1</sup>	3
<b>Total Hours</b>		<b>12</b>

1

Course prerequisites exist. See course listing in this catalog for details.

## Innovation & Entrepreneurial Thinking, Minor

The minor in Innovation and Entrepreneurial Thinking is an interdisciplinary program, open to all EKU students, that teaches students how to think and act entrepreneurially in new ventures, social enterprises, artistic endeavors, product design, technology creation, and intrapreneurship. Successful students will have a unique skill set that complements their major, making them competitive in the 21st century economy. The program is 18 hours of required courses, including a 0-credit required lab associated with the student's senior capstone or final major course. To enroll in a 300-level business course, students must have completed a minimum of 30 hours. Students must earn at least 12 of the total hours used for the minor in Innovation and Entrepreneurial Thinking at EKU and attain a cumulative GPA of 2.0 in the minor.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
Choose from one of the following:		3
ACC 200	Survey of Accounting	
ACC 202	Introduction to Managerial Accounting	
BUS 209	Fundamentals of Financial and Managerial Accounting	
GBU 204	Legal and Ethical Environments of Business	3
or BUS 204	Fundamentals of Business Law and Ethics	
CCT 270	Entrepreneurship	3
FIN 310	Entrepreneurial Finance	3
Choose from one of the following:		3
MGT 300	Principles of Management	
MGT 301	Principles of Management (NB)	
BUS 303	Essentials of Org Behav/HR Mgt	
MKT 300	Principles of Marketing	
MKT 301	Principles of Marketing (NB)	
BUS 305	Essentials of Marketing	
MGT 330 & MGT 335	Small Business Management Innovation and Entrepreneurship and Innovation Lab	3
<b>Total Hours</b>		<b>18</b>

## International Business, Minor

The International Business Minor is offered to students in any major who desire to gain knowledge in international business and experience business courses through study abroad. To enroll in a 300-level business course, students must have completed a minimum of 60 hours and have met the prerequisites of the specific course. Students must earn at least 12 of the 18 hours for the International Business Minor at EKU and earn a "C" in each minor course.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
CCT 310	International Business Communication	3
GBU 201	International Business	3

MGT 301	Principles of Management (NB)	3
or MGT 300	Principles of Management	
or BUS 303	Essentials of Org Behav/HR Mgt	
MGT 430	International Management	3
Choose from six hours of business credit from approved courses studied and completed abroad		6
<b>Total Hours</b>		<b>18</b>

# Management, Bachelor of Business Administration with a Concentration in Global Supply Chain Management (B.B.A.)

CIP Code: 52.0201

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
BUS 100	Professional Development One	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Management majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)		
BUS 402	Integrated Strategic Mgmnt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		

<b>Professional Development Series:</b>		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
<b>Nature of Business:</b>		
BUS 101	Nature of Business	3
<b>Fundamentals Series: Environment and Tools of Business</b>		
<b>Environment of Business</b>		
BUS 204	Fundamentals of Business Law and Ethics	3
<b>Tools of Business</b>		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
<b>Essential Series: Functions of Business</b>		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
<b>Mastery of Business:</b>		
BUS 402	Integrated Strategic Mgmnt	3
<b>Supporting Course Requirements</b>		
<b>Fundamentals Series: Environment and Tools of Business</b>		
Element 2, three hours, and Element 5B, three hours, included above		
<b>Environment of Business</b>		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
<b>Tools of Business</b>		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Approved Business Electives</b>		
Choose from six hours of the following prefixes: ACC, CCT, CIS, FIN, GBU, MGT, MKT, and RMI (in addition to courses not required for the management major)		6
<b>Major Core</b>		
MGT 320	Human Resource Management	3
MGT 400	Organization Theory	3
MGT 480	Organization Behavior	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		21-27
Management		
Human Resource Management		
Global Supply Chain Management		
<b>Free Electives</b>		
Choose from 1-10 hours of free electives		1-10
<b>Total Hours</b>		<b>120-135</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

1  
 Hours for BUS 100 Professional Development One, BUS 300 Professional Development Three and BUS 400 Professional Development Four included above

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CIS 410	Project Management and Practice	3
GBU 201	International Business	3
MGT 375	Supply Chain Management	3
MGT 435	Supply Chain Network Design	3
MGT 444	Strategic Sourcing	3
MGT 446	Logistics Management	3
MKT 455	Marketing Research and Analysis	3
<b>Total Hours</b>		<b>21</b>

# Management, Bachelor of Business Administration with a Concentration in Human Resource Management (B.B.A.)

## Program Requirements

CIP Code: 52.0201

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Management majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)		
BUS 402	Integrated Strategic Mgmnt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmnt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<i>Approved Business Electives</i>		

Choose from six hours of the following prefixes: ACC, CCT, CIS, FIN, GBU, MGT, MKT, and RMI (in addition to courses not required for the management major) 6

**Concentrations**

Students must select one of the following Concentrations:

Management	
Human Resource Management	21
Global Supply Chain Management	
<b>Free Electives</b>	
Choose from 10 hours of free electives	10
<b>Total Hours</b>	<b>120</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
MGT 320	Human Resource Management	3
MGT 400	Organization Theory	3
MGT 425	Compensation Management	3
MGT 440	Human Resource Development	3
MGT 445	Employee Recruitment and Selection	3
MGT 460	Performance Management	3
MGT 480	Organization Behavior	3
<b>Total Hours</b>		<b>21</b>

# Management, Bachelor of Business Administration with a Concentration in Management (B.B.A.)

## Program Requirements

CIP Code: 52.0201

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
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**University Graduation Requirements**

General Education		36
<i>Student Success Seminar</i>		

BUS 100	Professional Development One	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Management majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)

BUS 402	Integrated Strategic Mgmt	
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**Major Requirements**

*Business Core Courses*

Professional Development Series:

BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1

Nature of Business:

BUS 101	Nature of Business	3
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Fundamentals Series: Environment and Tools of Business

*Environment of Business*

BUS 204	Fundamentals of Business Law and Ethics	3
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*Tools of Business*

BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3

*Essential Series: Functions of Business*

BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3

Mastery of Business:

BUS 402	Integrated Strategic Mgmt	3
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*Supporting Course Requirements*

Fundamentals Series: Environment and Tools of Business

Element 2, three hours, and Element 5B, three hours, included above

*Environment of Business*

ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3

*Tools of Business*

MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	

Choose from one of the following:

MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Approved Business Electives</b>		
	Choose from six hours of the following prefixes: ACC, CCT, CIS, FIN, GBU, MGT, MKT, and RMI (in addition to courses not required for the management major)	6
<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Management		21
Human Resource Management		
Global Supply Chain Management		
<b>Free Electives</b>		
	Choose from 10 hours of free electives	10
<b>Total Hours</b>		<b>120</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

**1**  
 Hours for BUS 100 Professional Development One, BUS 300 Professional Development Three and BUS 400 Professional Development Four included above

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
MGT 320	Human Resource Management	3
MGT 400	Organization Theory	3
MGT 480	Organization Behavior	3
	Choose from 12 hours of upper division Management (MGT) electives	12
<b>Total Hours</b>		<b>21</b>

**1**  
 Excludes MGT 300 Principles of Management, MGT 301 Principles of Management (NB), MGT 349 Applied Learning in Management and MGT 370 Operations Management

**Marketing Research and Analytics, Certificate**

The Certificate in Marketing Research and Analytics is offered for all students who need to increase their research and analytical skills in their field of study in the context of problems that firms face. The growth in technology has allowed for firms to capture more information than ever, and as such the need for strong marketing research and analytical skills is one of the fastest growing jobs in industry. The Certificate is designed to provide training in digital marketing, marketing research process, marketing research methodology with particular emphasis on both qualitative and quantitative analysis techniques including multivariate data analysis, qualitative research, and experimental design.

Furthermore, students will be involved in the research process with hands-on projects and gain valuable digital and research experience that will prepare them to address the needs of businesses and organizations across all industries. Students must earn at least 6 of the 12 hours

required for the certificate in residence at EKU and earn a “C” or better in all courses comprising the certificate.

**Program Requirements**

Code	Title	Hours
<b>Required Courses</b>		
BUS 305	Essentials of Marketing	3
or MKT 301	Principles of Marketing (NB)	
MKT 455	Marketing Research and Analysis	3
CIS 430	Business Data Mining	3
or MKT 401	Digital Marketing	
or MKT 456	Qualitative Research in Marketing	
MKT 457	Experimental Design for Marketing	3
<b>Total Hours</b>		<b>12</b>

**Marketing, Bachelor of Business Administration with a Concentration in General Marketing (B.B.A.)**

**Program Requirements**

CIP Code: 52.1401

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
BUS 100	Professional Development One	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	

Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)

ACCT - Marketing majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)

BUS 402 Integrated Strategic Mgmt

### Major Requirements

#### Business Core Courses

Professional Development Series:

BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1

Nature of Business:

BUS 101	Nature of Business	3
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Fundamentals Series: Environment and Tools of Business

Environment of Business

BUS 204	Fundamentals of Business Law and Ethics	3
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Tools of Business

BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3

Essential Series: Functions of Business

BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3

Mastery of Business:

BUS 402	Integrated Strategic Mgmt	3
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#### Supporting Course Requirements

Fundamentals Series: Environment and Tools of Business

Element 2, three hours, and Element 5B, three hours, included above

Environment of Business

ECO 230 Fundamentals of Microeconomics (Element 5B)<sup>G</sup>

ECO 231	Fundamentals of Macroeconomics	3
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Tools of Business

MAT 112A Algebra: Polynomials (Element 2)<sup>G</sup>

MAT 112B Algebra: Functions & Matrices (Element 2)<sup>G</sup>

Choose from one of the following:

MAT 114 College Algebra (Element 2)<sup>G</sup>

MAT 211 Applied Calculus (Element 2)<sup>G</sup>

STA 270	Applied Statistics	4
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#### Concentrations

Students must select one of the following Concentrations: 24-40

General Marketing

Music Marketing

Marketing Research and Analytics

PGA Golf Management

#### Free Electives

Choose from 0-13 hours of free electives<sup>2</sup> 0-13

**Total Hours 107-136**

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

2

May include three hours approved business electives. Upper Division electives may be required to meet the University 43 hour upper division requirement.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
MKT 350	Consumer Behavior in Marketing	3
MKT 400	International Marketing	3
MKT 455	Marketing Research and Analysis	3
MKT 460	Marketing Management	3
Choose from 12 hours of approved upper division marketing electives <sup>1</sup>		12
<b>Total Hours</b>		<b>24</b>

1

Excludes MKT 300 Principles of Marketing and MKT 349 Applied Learning in Marketing

## Marketing, Bachelor of Business Administration with a Concentration in Marketing Research and Analytics (B.B.A.)

### Program Requirements

CIP Code: 52.1401

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Marketing majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)		
BUS 402	Integrated Strategic Mgmt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	

STA 270	Applied Statistics	4
<i>Concentrations</i>		
Students must select one of the following Concentrations:		24-40
General Marketing		
Music Marketing		
Marketing Research and Analytics		
PGA Golf Management		
<i>Free Electives</i>		
Choose from 0-13 hours of free electives <sup>2</sup>		0-13
<b>Total Hours</b>		<b>107-136</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

<sup>2</sup>  
May include three hours approved business electives. Upper Division electives may be required to meet the University 43 hour upper division requirement.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
CIS 430	Business Data Mining	3
MKT 350	Consumer Behavior in Marketing	3
MKT 400	International Marketing	3
MKT 455	Marketing Research and Analysis	3
MKT 456	Qualitative Research in Marketing	3
MKT 457	Experimental Design for Marketing	3
MKT 460	Marketing Management	3
MKT 481	Internship in Marketing	3
<b>Total Hours</b>		<b>24</b>

## Marketing, Bachelor of Business Administration with a Concentration in Music Marketing (B.B.A.)

### Program Requirements

CIP Code: 52.1401

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		

A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Marketing majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)		
BUS 402	Integrated Strategic Mgmt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		

MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<i>Concentrations</i>		
Students must select one of the following Concentrations:		24-40
General Marketing		
Music Marketing		
Marketing Research and Analytics		
PGA Golf Management		
<i>Free Electives</i>		
Choose from 0-13 hours of free electives <sup>2</sup>		0-13
Recommended:		
BEM 240		
Other business courses as electives, up to 50% of program		
<b>Total Hours</b>		<b>107-136</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

### 2

May include three hours approved business electives. Upper Division electives may be required to meet the University 43 hour upper division requirement.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
MUS 190	Music Industry I	2
MUS 191	Music Industry II	2
MUS 290	Film Scoring	2
MUS 390	Music Industry III	3
MUS 391	Music Industry IV	3
Choose from 15 hours of the following:		15
MGT 330	Small Business Management Innovation and Entrepreneurship	
MKT 306	Services Marketing	
MKT 310	Personal Selling	
MKT 349	Applied Learning in Marketing	
MKT 400	International Marketing	
MKT 401	Digital Marketing	
MKT 404	Retailing Management	
MKT 420	Marketing of the Arts	
<b>Total Hours</b>		<b>27</b>

# Marketing, Bachelor of Business Administration with a Concentration in PGA Golf Management (B.B.A.)

## Program Requirements

CIP Code: 52.1401

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36

#### Student Success Seminar

BUS 100	Professional Development One	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Marketing majors will fulfill ACCT with the following. (Credit hours will be counted in Major requirements)

BUS 402	Integrated Strategic Mgmt	
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#### Major Requirements

##### Business Core Courses

Professional Development Series:

BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1

Nature of Business:

BUS 101	Nature of Business	3
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Fundamentals Series: Environment and Tools of Business

	Environment of Business	
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BUS 204	Fundamentals of Business Law and Ethics	3
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Tools of Business

BUS 206	Fund of Prob Solving w Excel	3
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BUS 207	Fund of Interpersonal Bus Comm	3
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BUS 209	Fundamentals of Financial and Managerial Accounting	3
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Essential Series: Functions of Business

BUS 301W	Fundamentals of Formal Commun.	3
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BUS 302	Essentials of Finance	3
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BUS 303	Essentials of Org Behav/HR Mgt	3
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BUS 304	Essentials of MIS	3
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BUS 305	Essentials of Marketing	3
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BUS 306	Essentials of Supply Chain Mgt	3
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Mastery of Business:

BUS 402	Integrated Strategic Mgmt	3
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#### Supporting Course Requirements

Fundamentals Series: Environment and Tools of Business

Element 2, three hours, and Element 5B, three hours, included above

Environment of Business

ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
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ECO 231	Fundamentals of Macroeconomics	3
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Tools of Business

MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
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MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
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Choose from one of the following:

MAT 114	College Algebra (Element 2) <sup>G</sup>	
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MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
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STA 270	Applied Statistics	4
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#### Concentrations

Students must select one of the following Concentrations: 24-40

General Marketing

Music Marketing

Marketing Research and Analytics

PGA Golf Management

#### Free Electives

Choose from 0-13 hours of free electives<sup>2</sup> 0-13

**Total Hours 107-136**

#### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

#### 2

May include three hours approved business electives. Upper Division electives may be required to meet the University 43 hour upper division requirement.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
MGT 201	Introduction to Golf Management	3
MGT 202	Introduction to Golf Instruction	3
MGT 203	Golf Operations I	3
MGT 204	Golf Operations II	3

MGT 205	Analysis of the Golf Swing	3
MGT 206	Golf Operations and Administration	3
MGT 207	Advance Golf Instruction & Special Programs	3
MGT 210	Golf Operation III	3
MKT 310	Personal Selling	3
MKT 350	Consumer Behavior in Marketing	3
MKT 455	Marketing Research and Analysis	3
PGM 349A	Cooperative Study: PGA Golf Management	0.5
PGM 349B	Cooperative Study: PGA Golf Management	0.5
PGM 349C	Cooperative Study: PGA Golf Management	0.5
PGM 349D	Cooperative Study: PGA Golf Management	0.5
PGM 349E	Cooperative Study: PGA Golf Management	0.5
OHO 351	Turf Grass Management (additional requirement)	4
<i>Exit Requirements</i>		
PGM 100	PGA Playing Ability Test (completion of the PGA Playing Ability Test)	0
PGM 101	Orientation (completion of completion of qualifying level to PGA Golf Management)	0.5
PGM 199	PGA Education Level 1 (completion of Level 1 of PGA Education)	0
PGM 299	PGA Education Level 2 (completion of Level 2 of PGA Education)	0
PGM 399	PGA Education Level 3 (completion of Level 3 of PGA Education)	0
PGM 499	PGA Final Experience (completion of PGA Final Experience)	0
<b>Total Hours</b>		<b>40</b>

## Personal Finance, Minor

Designed to prepare students to make informed financial decisions regarding investments, mortgages, loans, retirement planning, etc. Students must earn at least 9 of the 18 hours required for the minor in residence at EKU and must earn a "C" or better in all courses for the minor.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
Choose from one of the following:		
ACC 201	Introduction to Financial Accounting	3
ACC 200	Survey of Accounting	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
ACC 322	Tax I	3
FIN 201	Personal Money Management	3
FIN 311	Personal Financial Planning	3
FIN 324	Principles of Investments	3
RMI 370	Principles of Risk and Insurance	3
<b>Total Hours</b>		<b>18</b>

## Risk Management and Insurance, Bachelor of Business Administration (B.B.A.)

A Bachelor of Business Administration degree in Risk Management and Insurance offers opportunities for graduates to pursue careers with large companies, insurance agencies or the start-up of their own business. A large number of challenging career possibilities are available in all parts of the world, including Underwriters, Claims Adjusters, Risk Analysts, Account Executives, Insurance Sales, and Financial Planners.

Students learn how to plan and evaluate insurance coverage for property, life, and death benefits, analyze and manage risks; plan employee benefit programs for small and large companies, and annuity and estate planning for individuals. Students also learn about operating and managing an insurance agency or large insurance company.

## Program Requirements

CIP Code: 52.1701

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT - Risk Management and Insurance B.B.A. majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

BUS 402	Integrated Strategic Mgmt	
<b>Major Requirements</b>		
<i>Business Core Courses</i>		
Professional Development Series:		
BUS 200	Professional Development Two	1
BUS 300	Professional Development Three	1
BUS 400	Professional Development Four	1
Nature of Business:		
BUS 101	Nature of Business	3
Fundamentals Series: Environment and Tools of Business		
Environment of Business		
BUS 204	Fundamentals of Business Law and Ethics	3
Tools of Business		
BUS 206	Fund of Prob Solving w Excel	3
BUS 207	Fund of Interpersonal Bus Comm	3
BUS 209	Fundamentals of Financial and Managerial Accounting	3
Essential Series: Functions of Business		
BUS 301W	Fundamentals of Formal Commun.	3
BUS 302	Essentials of Finance	3
BUS 303	Essentials of Org Behav/HR Mgt	3
BUS 304	Essentials of MIS	3
BUS 305	Essentials of Marketing	3
BUS 306	Essentials of Supply Chain Mgt	3
Mastery of Business:		
BUS 402	Integrated Strategic Mgmt	3
<i>Supporting Course Requirements</i>		
Fundamentals Series: Environment and Tools of Business		
Element 2, three hours, and Element 5B, three hours, included above		
Environment of Business		
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ECO 231	Fundamentals of Macroeconomics	3
Tools of Business		
MAT 112A	Algebra: Polynomials (Element 2) <sup>G</sup>	
MAT 112B	Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
Choose from one of the following:		
MAT 114	College Algebra (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Major Core</b>		
RMI 370	Principles of Risk and Insurance	3
RMI 372	Commercial Property Risk Management and Insurance	3
RMI 374	Fundamentals of Life and Health Insurance	3
RMI 378	Risk Management	3
MKT 310	Personal Selling	3
Choose from nine additional hours of Risk Management and Insurance electives of the following:		
RMI 349	Applied Learning in Insurance (up to a maximum of six hours)	

RMI 376	Excess & Surplus Lines	
RMI 380	Personal Risk Management	
RMI 382	Claim Handling Principles and Practices	
RMI 462	Business Law for Insurance	
RMI 472		
RMI 474	Life Insurance and Estate Planning	
RMI 476	Employee Benefit Planning	
RMI 486	Insurance Company Operations	
RMI 400	Seminar in Insurance (up to a maximum of six hours total)	
TRS 332	Traffic Crash Causation and Investigation	
GBU 310	Law of Contracts, Property, and Business Organizations	
GBU 311	Law of Commercial Transactions	
MGT 330	Small Business Management Innovation and Entrepreneurship	
FIN 201	Personal Money Management	
FIN 310	Entrepreneurial Finance	
FIN 311	Personal Financial Planning	
FIN 324	Principles of Investments	
FIN 390S	Community Financial Literacy	
FSE 101	Fire Prevention	3
FSE 120	Fire Behavior and Combustion	3
FSE 221	Fire Detection and Suppression Systems	3
FSE 224	Human Behavior In Fire	3
FSE 350	Fire Arson and Explosion Investigation	3
MKT 408	Sales Management	
MKT 490	Special Problems in Marketing:___	
OSH 110	Introduction to Safety Studies	
OSH 225	Legal Aspects of Occupational Safety	
OSH 262	Principles of Occupational Safety and Health Legislation	
OSH 390	Workers Compensation	
Advisor approved electives		
<i>Free Electives</i>		
Choose from 13 hours of non-business electives		13
<b>Total Hours</b>		<b>135</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education Requirement above.

## Risk Management and Insurance, Minor

The minor consists of 18 hours including 3 hours of a required accounting course, 9 hours of required Risk Management and Insurance courses and 6 hours of approved Risk Management and Insurance electives.

Students must earn at least 9 of the 18 hours required for the minor in residence at EKU and must earn a "C" or better in all courses for the minor.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
Choose from one of the following:		3
ACC 201	Introduction to Financial Accounting	
ACC 200	Survey of Accounting	
BUS 209	Fundamentals of Financial and Managerial Accounting	
RMI 370	Principles of Risk and Insurance	3
RMI 372	Commercial Property Risk Management and Insurance	3
RMI 374	Fundamentals of Life and Health Insurance	3
Choose from six hours of approved RMI electives		6
<b>Total Hours</b>		<b>18</b>

## Sales, Certificate

The Certificate in Sales is offered for all students who are interested in a rewarding sales career. The courses in this certificate go beyond theory, providing students valuable skills to help them be successful in real sales environments. The courses are taught using a combination of lectures, hands-on exercise, business cases, projects, and role playing. This certificate will serve as solid evidence of a professional training in sales for company recruiters. Students must earn at least 6 of the 12 hours required for the certificate in residence at ECU and must earn a "C" or better in all courses comprising the certificate.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
BUS 305	Essentials of Marketing	3
or MKT 301	Principles of Marketing (NB)	
MKT 310	Personal Selling	3
MKT 408	Sales Management	3
Choose from one of the following:		3
MKT 350	Consumer Behavior in Marketing	
MKT 440	Industrial Marketing	
MKT 470	Advanced Sales	
MKT 481	Internship in Marketing	
MKT 490	Special Problems in Marketing:____	
<b>Total Hours</b>		<b>12</b>

## Sales, Minor

The Minor in Sales is designed to address the needs of all majors for hands-on professional development and sales training, given a full 50% of all undergraduate majors will have a sales job as their first job post-graduation. This training provides mentorship and experiential learning, as well as basic business knowledge to enhance career success in every field and major. The courses in this minor equip students with valuable skills to help them be successful in real sales environments. The courses are taught with a focus on role plays and professional interactions with business executives and intercollegiate competitive events. This minor requires demonstrated performance as evidence of communication and sales training for company recruiters. Students must earn at least 9 of

the 18 hours required for the minor in residence at ECU and must earn a "C" or better in all courses comprising the minor.

## Program Requirements

The Minor consists of the following courses:

Code	Title	Hours
<b>Required Courses</b>		
Choose from one of the following:		3
MKT 300	Principles of Marketing	
MKT 301	Principles of Marketing (NB)	
BUS 305	Essentials of Marketing	
MKT 310	Personal Selling	3
MKT 408	Sales Management	3
MKT 350	Consumer Behavior in Marketing	3
or MKT 440	Industrial Marketing	
Choose from a combined six credit hours of the following:		6
MKT 349	Applied Learning in Marketing	
MKT 470	Advanced Sales	
MKT 481	Internship in Marketing	
MKT 490	Special Problems in Marketing:____	
<b>Total Hours</b>		<b>18</b>

## College of Education and Applied Human Sciences

Dr. Gill G. Hunter, Interim Dean  
Combs 420  
gill.hunter@eku.edu  
(859) 622-3515

Dr. Dana Keller Bush, Associate Dean (gill.hunter@eku.edu)  
dana.bush@eku.edu  
Combs 407  
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EKU: A Legacy of Preparing Educational Professionals Since 1874

## College of Education and Applied Human Sciences Strategic Plan 2016-2020

### Vision

The College of Education and Applied Human Sciences will be a premier college dedicated to innovative student engagement and success, advancing Kentucky, and impacting the world.

### Mission

As a school of opportunity, the College of Education and Applied Human Sciences prepares and empowers learners to become dynamic partners in diverse communities.

### Values

The College of Education and Applied Human Sciences' values permeate the mission and allow the college to achieve its vision:

- *ethical decision-making*, which is characterized by integrity, intentional stewardship of resources, and social responsibility;
- *intellectual vitality*, which is characterized by quality instruction & research, critical and innovative thinking, and on-going assessment;
- *equity*, which is characterized by sensitivity, respect, fairness, accommodation, and impartiality for all;
- *collaboration*, which is characterized by respectful, reciprocal accountability and service to local & global communities; and
- *reflective practice*, which is characterized by goal setting, self-evaluation, and a deep understanding of critical concepts and principles within one's discipline.

The College of Education and Applied Human Sciences is well known for preparing effective professionals for the disciplines within our college. At Eastern Kentucky University we strive to continuously learn and develop the most effective ways to prepare teachers, leaders, and other professionals for the variety of school and professional settings that exist today.

In order to achieve our **Vision for 2016-2020**, the College of Education and Applied Human Sciences will focus on four Strategic Goals.

- **Academic Excellence** - We will achieve academic excellence through **investing in students, staff, and faculty to support their professional growth.**
- **Cultural Competency** - We will demonstrate our commitment to cultural competency through recruiting diverse candidates, faculty, and staff and providing structured opportunities for education and interaction with people from diverse backgrounds.
- **Stewardship of Place** - We will demonstrate our commitment to the development of stewardship of place through collaboration within the College, University, and community through advocacy, civic engagement, and stewardship.
- **Experiential Education** - We will achieve experiential education through infusing clinical experiences throughout our programs.

**Strategic Initiatives and Strategies** define the primary goals, outline our work for the next five years, and ensure we achieve our primary goals.

**Ongoing Commitment** is to prepare every candidate to be successful in all aspects of his/her professional career.

### Ongoing Commitments

- Our curriculum is designed by faculty to meet educational goals of all candidates and is focused on candidate outcomes integrated in a clinical model.
- Our programs are focused on embracing individual differences in every aspect of the educational process.

## Education as the New “Clinical” Profession

“Teaching as a clinical profession means that education candidates are expected to become knowledgeable and, to the fullest extent possible, experts in the school learning sciences. Similarly, teacher education candidates are expected to become competent and also, to the fullest extent possible, excellent diagnosticians in the academic development of their school age students. Drawing from a scholarly knowledge base, more than adequate in scope and depth, teacher education candidates study with seasoned expert faculty in the College of Education and Applied Human Sciences to refine diagnostic skills and learn to prescribe

instructional strategies that will improve school age student performance in Kentucky and beyond.” Dr. James Bliss

Since its founding in 1906, Eastern Kentucky University has maintained a strong interest in and commitment to the preparation of teachers.

*The Professional Education Programs at Eastern Kentucky University are dedicated to preparing the highest quality educators and related professionals for Kentucky and beyond. Our graduates integrate content, effective pedagogical skills, and dispositions that foster life-long growth and learning. Being true to our heritage as a school of opportunity, Eastern Kentucky University provides a climate that supports, challenges, and enriches students aspiring to careers in a diverse society.*

Professional Education at Eastern Kentucky University is a university-wide function. The programs of elementary education (P-5), middle grades education (5-9), special education, interpreter training, deaf and hard of hearing, and communication disorders are located in the College of Education and Applied Human Sciences. The college also has graduate degree and licensure programs in most of these areas, as well as in Counseling and Educational Leadership. Candidates in these programs are advised in the College of Education and Applied Human Sciences. Secondary 8-12, Grades 5-12, Birth – Primary (interdisciplinary early childhood education), and P-12 teaching programs are located in their respective colleges with candidates receiving academic advisement from the college of their major as well as a supplemental advisor from the College of Education and Applied Human Sciences.

## Base Teaching Initial and Advanced

- Interdisciplinary Early Childhood Education (Birth to Primary)
- Elementary School (Primary - Grade 5) - Preparation includes the academic disciplines taught in the elementary school
- Middle School (Grades 5-9) - two teaching fields selected from English and communications, mathematics, science, or social studies;
- Secondary School (Grades 8-12) – biology, chemistry, English, mathematics, physics, or social studies,
- Middle/Secondary School (Grades 5-12) - agriculture, business and marketing education, industrial education or engineering and technology
- Elementary/Middle/Secondary School (Primary - Grade 12) - art, foreign language (Spanish), or integrated music.
- Exceptional Children (Primary - Grade 12 and for collaborating with teachers to design and deliver programs) - learning and behavior disorders, moderate and severe disabilities (advanced only), hearing impaired, hearing impaired with sign proficiency, or communication disorders

## Endorsements

(Must be added to an initial license)

- English as a Second Language (Primary through Grade 12)
- Environmental Education (Primary through Grade 12)
- Gifted Education (Primary through Grade 12)
- Instructional Computer Technology (Primary through Grades 12)
- Literacy Specialist (Primary through Grade 12)
- Mathematics Specialist (Primary through Grade 5)
- Teacher Leader

## Other Instructional Services - Advanced

- School Guidance Counselor
- Principal (Primary through Grade 12)
- Supervisor of Instruction (Primary through Grade 12)
- Director of Pupil Personnel
- Director of Special Education
- Superintendent

## Non-Teaching Undergraduate

- American Sign Language and English Interpretation
- American Sign Language Studies (Minor)

## Advanced

- Doctor of Education
- Human Services: Student Personnel Services in Higher Education
- Master of Arts in Teaching
- Mental Health Counseling
- Rank I Preparation Programs
- Standard Guidance
- Specialist in Education

## Model Laboratory School

Model Laboratory School is one of the few remaining lab schools nationally, and the only one in Kentucky. EKU's Model offers a full P-12 educational curriculum. Model is one of only a handful of lab schools left that serves a P-12 population. When the current building for Model was completed in the 1960s, it was a state-of-the-art facility allowing for individual and small group observations, demonstration teaching, and student teaching. Today, teacher educators agree not only that clinical teaching experiences are crucial in preparing teachers, but also that they should begin early in preparation programs. High standards in clinical teaching experiences require the kinds of settings only laboratory schools like Model can provide.

Universities are changing preparation programs for all school personnel significantly to include diverse clinical experiences that are developmental in sequence and provide opportunity for shaping the knowledge, skill, and disposition sets of future educational professionals. Kentucky's Education Professional Standards Board enacted a regulation requiring 200 clinical hours for initial teacher preparation prior to the professional semester or student teaching. In addition, clinical hours have been initiated for graduate or advanced preparation programs. As a result, a lab school, such as EKU's Model, plays a vital role in serving this clinical preparation model for all educators. Additionally, it provides a site for research-based practices to prepare those planning to enter the profession and to retool currently practicing educators to enhance student engagement, learning, and achievement at all P-12 levels.

## EKU Kentucky Adult Education

The EKU Kentucky Adult Education program, directed by Aileen Perkins, serves residents of Madison, Clay, and Garrard counties. The EKU Kentucky Adult Education program is housed in the College of Education and Applied Human Sciences and is located in the Vanhooose Building. The mission of the EKU Kentucky Adult Education program is to support adults in returning to school to either

1. complete their GED and/or
2. prepare to move forward in college.

Our EKU Kentucky Adult Education program serves current EKU students to further develop math, language and writing skills to move beyond development level courses. In addition, students are able to complete their Kentucky Paraeducator Certification through the EKU Kentucky Adult Education program. All classes and support offered through this program are free. Students can call 859-622-8065 to learn more about the Kentucky Adult Education programs in Madison, Garrard and Clay counties. Visit the EKU Kentucky Adult Education program at <http://adulteducation.eku.edu/>

### Staff:

A. Perkins (Director), M. McClellan (Garrard, Lead Instructor), TBD (Clay, Lead Instructor)

## The Kentucky Educational Collaborative for State Agency Children (KECSAC)

Directed by Dr. Ronnie Nolan, is a statewide collaborative that works with state agencies, school districts and local programs to ensure that state agency children receive a quality education comparable to all Kentucky students and is housed in the College of Education and Applied Human Sciences. Visit the KECSAC program at <http://www.kecsac.eku.edu/>.

### Staff:

R. Chapman, L. Cole, C. Held, K. Helton, E. McManus, R. Nolan (Director), M. Parker, K. Smith

## The Migrant Education Program

The Migrant Education Program, housed in the College of Education and Applied Human Sciences and directed by Michael Hay, is a supplemental education program that provides support for migrant children and their families. This program works to ensure that the appropriate academic services are offered to help migrant children do well in school and that they receive the needed levels of tutoring and instruction that will promote them to the next grade level. Migrant Education staff works with other school and community agencies to provide social and health needs that families may require. Visit the Migrant Education Program at <http://migrated.eku.edu/>.

### Staff:

S. Haney, M. Hay (Director), B. Perkins, J. Tate, J. Vincent (Assistant Director)

## Policies and Procedures Professional Education Majors

To be recommended for certification, all candidates must meet the requirements for admission to professional education, complete a College of Education and Applied Human Sciences approved teaching curriculum, and pass the required PRAXIS II tests, PLT exam, or Kentucky test as established by the Education Professional Standards Board.

## Credits

To be applied to degree programs, credits more than eight years old must be validated by the Dean.

## Credit for Transfer Work

Allowance of transfer credit by the University Office of Admissions and/or the Office of Advising & Career Services does not necessarily mean that all such credit will be applied toward admission to professional education or a degree from the College of Education and Applied Human Sciences.

Therefore, candidates should read and follow closely the transfer credits/courses section in Section Five of this *Catalog*.

## Credit for Transient Work

Undergraduate students or students (candidates) pursuing initial certification in programs housed in the College of Education and Applied Human Sciences who wish to take course work at another higher education institution must have approval from the Dean of the College if they wish to apply that credit to their degree program. Candidates must be in good academic standing at EKU. Transient forms are initiated with the Tracking Specialist, Office of Professional Education Services.

## Overload

In the College of Education and Applied Human Sciences, overloads must be approved by the candidate's department chair. Requests for overloads must contain the student's overall GPA and the number of hours being attempted, including those to be taken at other higher education institutions.

## Planned Curriculum

Planned curricula in the College of Education and Applied Human Sciences are maintained in Degree Works, a comprehensive set of web-based academic advising, degree audit, and transfer articulation tools that help candidates and their advisors negotiate program requirements. Changes in the planned curriculum, initiated on the College Exception form, must include a recommendation for change by the advisor and be approved by the department chair and the Dean of the College. Changes approved verbally by phone or otherwise will not be honored unless the planned curriculum is officially altered to reflect such approval. It is the candidate's responsibility to register for the proper courses so that all requirements are satisfied at the time of expected graduation. Completion of all course work on the candidate's planned curriculum is required for graduation.

## Progressing in Professional Education

Candidates shall not enroll in any educator preparation program courses restricted to admitted candidates.

## Application for Graduation

Candidates must file an application for graduation in accordance with university policy found in the Graduation and Commencement Information section of this catalog. Applications for graduation are available online through EKU Direct.

## PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements. Refer to Degree Works for exam details. Effective Spring 2018, the PRAXIS content and PLT exams must be taken prior to student teaching.

## Student Teaching

Since student teaching is especially demanding, candidates are encouraged to avoid taking any other courses during CED 499 Clinical VI: The Professional Semester.

## Admission to the College of Education and Applied Human Sciences

### Preparing a Community of Exemplary Professionals

- Upon admission to the College of Education and Applied Human Sciences, students are assigned an advisor. Candidates must enroll

in Academic Orientation, EDO 100 Student Success Seminar, during the first semester. Candidates are advised to enroll in EDF 203 Educational Foundations, Schooling and Society, during their freshman year. EDF 310 Transition to Education will be required for students who have an equivalent transfer course for EDF 203 Educational Foundations or EDF 219 Human Development and Learning.

- Secondary education majors will follow the prescribed curriculum and requirements of another academic college and the policies for professional education stated elsewhere in this *Catalog*. The College of Education and Applied Human Sciences cooperates closely with the other colleges in matters pertaining to admission to professional education and clinical education.

## Licensure and Certification

### Staff:

K. Dickens & A. Stamper

Located in Bert Combs 423, the Office of Professional Education Services is responsible for the coordination of admission to initial and advanced professional education programs and the review and recommendation for initial and advance licensure.

In addition, applications for licensure for teachers, school personnel (principals, supervisors, superintendents, counselors, pupil personnel directors, business administrators, librarians, and speech pathologists) are also processed by a certification official in the Office of Professional Education Services.

To be recommended for licensure/certification, all candidates seeking initial teacher certification, regardless of the college in which they are enrolled, must meet the requirements for admission to professional education, complete an approved teaching program, and pass the required PRAXIS II tests, PLT exam or Kentucky test as established by the Education Professional Standards Board.

Candidates are advised to enroll in EDF 203 Educational Foundations during their freshmen year.

## Teacher Admission

teacher.admissions@eku.edu  
Bert Combs 423  
(859) 622-1832

## Admission Requirements and Application Process

### Admission to Professional Education

Professional education admission standards represent our goal to recruit candidates who have high academic achievement and ability. We welcome you to the profession.

Admission to the University (academic college) is not synonymous with admission to professional education. Candidates will apply for admission to professional education by completing all materials listed on <https://tes.eku.edu/admissions> and submitting the documentation to teacher.admissions@eku.edu. Assistance can be provided in the College of Education and Applied Human Sciences' Office of Professional Education Services (Combs 423). Formal applications will be accepted based upon completion of the following requirements:

### A. Hours

Candidates must complete 30 hours of credit (excluding developmental level courses).

### B. Admission Test Requirement

Candidates must have a passing score on either the PRAXIS: Core Academic Skills for Educators (CASE) or ACT. Please contact your education advisor regarding these requirements.

### C. GPA and Grade Requirements

- An overall grade point average 2.75 on a 4.0 scale; or a grade point average of 3.0 on a 4.0 scale on the last thirty hours of credit completed.
- A grade of “C” or higher in EDF 203 Educational Foundations (A state criminal history background check approved by the College of Education and Applied Human Sciences must be completed prior to the first day of class).
- “S” grade in EDF 310 Transition to Education and a grade of “B” or higher in CED 150 Clinical Transition: Education Profession is required for all transfer candidates.

Undergraduate degree candidate GPA is based on the hours attempted as shown on the official EKU transcript. Post degree certification candidate GPA is based on all undergraduate course work and on the hours attempted as shown on the official EKU transcript.

### D. Demonstrate an Overall Disposition Essential to Being an Effective Teacher

Candidates must demonstrate proficiency in oral and written communication including:

- Critical thinking: A grade of “C” or higher in ENG 102 Research, Writing, and Rhetoric or HON 102 Honors Rhetoric with a grade of “B” or higher in ENG 105 First Year Writing Seminar (those earning a “C” must also take ENG 102 Research, Writing, and Rhetoric).
- Creativity: A grade of “C” or higher in EDF 203 Educational Foundations.
- Collaboration: A grade of “C” or higher in EDF 203 Educational Foundations.
- Communication: A grade of “C” or higher in CMS 100 Introduction to Human Communication or CMS 210 Public Speaking.

### E. Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions

- Candidates must review the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COEAHS Professional Code of Ethics for Kentucky Declaration form.
- Candidates must review the character and fitness questionnaire contained in Section III of the TC-1 incorporated by reference in 16 KAR 2:010 and sign a COEAHS Professional Character and Fitness Declaration form. EKU College of Education and Applied Human Sciences requires a state criminal history background check approved<sup>1</sup> by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission. Candidates must also complete and submit KY Child Abuse and Neglect (CAN) Check.

1

“Approved” is a formal review process of the professional character and fitness declaration and criminal records report. Professional disposition issues or violations of the professional code of ethics will be referred to the Professional Education Admission Committee. Any misrepresentation of facts, by omission or addition, may result in the denial of admission to teacher education.

### F. Recommendations

- Candidates must submit satisfactory pre-service professional disposition reviews from two EKU faculty members including the EDF 203 Educational Foundations or EDF 310 Transition to Education instructor and the advisor or another EKU faculty member.
- Candidates must complete and sign a Candidate Statement of Commitment Regarding Professional Dispositions form.

### G. Student Behavior

- Candidates preparing to work in schools as teachers or other professional school personnel must demonstrate dispositions necessary to help all students learn.
- Candidates must demonstrate acceptable social behavior at the University and in the community-at-large.<sup>1</sup> A candidate interview may be required by the Professional Education Admissions Committee.
- Candidate admission status may be reevaluated if the candidate is placed on either academic or social probation or has a record of criminal conviction(s).<sup>1</sup> A candidate interview may be required by the Professional Education Admissions Committee.

1

The Office of Professional Education Services will contact the Eastern Kentucky University Office of Student Rights and Responsibilities to obtain records of infractions committed by candidates for admission to professional education. The Office of Professional Education Services may also contact the Administrative Office of the Courts to obtain a criminal records check for each candidate for admissions to professional education.

### H. Clinical Experiences

- CED 100 Clinical I: Introduction to the Education Profession with a grade of “S”.

### Progressing in Professional Education

The Office of Professional Education Services will process the formal “Application for Admission to Professional Education.”

The Professional Education Admissions Committee (PEAC) will review applications, supporting documentation, and other relevant materials brought before the committee and will take appropriate action concerning the student’s admission to the professional education program. The candidate will be notified of the committee’s decision. Candidates shall not enroll in any educator preparation program courses restricted to admitted candidates.

### Selectivity during Preparation

Professional education programs have established transition points for program progression and monitors candidates’ advancement from admissions through completion. During these transitions, candidates must show evidence of developing content knowledge, pedagogical

content knowledge, pedagogical skills, and the integration of technology in each of these domains. [CAEP Standard 3]

## Certification

coecert@eku.edu  
Bert Combs 423  
(859) 622-1829

### Selection at Completion

Prior to recommending any candidate for licensure, candidates must demonstrate an understanding of the expectations of the profession, including codes of ethics, professional standards of practice, and relevant laws and policies. [CAEP Standard 3]

### Application for Licensure/Certification

#### Exams

Prior to recommendation for licensure, candidates must complete PRAXIS II Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams.

**Note:** Kentucky educator licensure/certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board (EPSB) website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the EPSB Division of Educator Preparation, Assessment, and Internship and Assessment at (502) 564-5789.

#### Applying for Licensure

Kentucky certification is based upon the completion of an approved teacher preparation program, including student teaching and applicable tests. This process requires a recommendation from a certification official in the Office of Professional Education Services.

#### Certification

Applications may be initiated from the EPSB website at <https://kecs.education.ky.gov/Account/Login>

Applications should be submitted by the following dates: May graduates by April 1; August graduates by July 1; December graduates by November 1. Applications for certification are not processed until all requirements are met. Applicants must notify the Office of Professional Education Services via email at [coecert@eku.edu](mailto:coecert@eku.edu) when applications are submitted online through EPSB's portal.

Candidates must also request and send an official transcript to the EPSB. Be sure that you note "Hold for Degree" if your degree has not been posted at the time you order your transcript. Eastern Kentucky University uses the National Student Clearinghouse (<https://tsorder.studentclearinghouse.org/school/select/>) to process all transcripts. The recipient of the transcript will be the EPSB. You may be asked to provide their mailing address:

Kentucky Department of Education  
Division of Educator  
Licensure and Quality  
300 Sower Blvd., 5th Floor  
Frankfort, KY 40601

## Clinical Education

#### Staff:

S. Korson (Director), A. Stamper, B. Blackburn, K. Dickens

### Preparing a Community of Exemplary Professionals

Clinically based professional education programs create varied and extensive opportunities for candidates to connect what they learn while being guided by skilled clinical educators. Performance-based assessments, at key points in the program, are designed to demonstrate candidates' development of the knowledge, skills, and professional dispositions associated with a positive impact on the learning and development of all P-12 students. [CAEP Standard 2]

The Clinical Model at Eastern Kentucky University is designed to meet the needs of learners in today's schools and provide teacher candidates with the content, pedagogy, and assessment skills needed to assure they meet the needs of all learners. Eastern Kentucky University's Professional Education Program provides a framework that supports our candidates' development of content knowledge, practice, and professional behaviors. This is accomplished through high quality instruction, engaging course-learning tasks, and clinical learning experiences requiring candidates to think critically and creatively, communicate effectively, and act fairly. Our candidates will be prepared to effect change in the culture of learning in their classrooms, in our region, and beyond.

**Clinical I:** CED 100 Clinical I: Introduction to the Education Profession (CED 150 Clinical Transition: Education Profession is designed for all transfer students) (10 hours in laboratory clinical)

Clinical Experiences begin with the first semester of the program, Introduction to the Education Profession (Clinical 1). This laboratory based clinical includes guided walkthroughs at all levels of P-12 education. Candidates also spend 6 hours in a classroom assisting and helping a teacher. While teacher candidates are introduced to all levels of public school education, they are also introduced to the profession, expectations, and dispositions of professional educators including the ethics of educators. Teacher candidates are guided to consider whether this is the right career choice, and, if it is, what level or specific licensure area interests them.

**Clinical II:** CED 200 Clinical II: Understanding the Learner (**minimum of 20 school based clinical hours**)

Clinical II provides laboratory based clinical experiences in the co-requisite course(s). Teacher candidates are placed in a classroom for a minimum of 20 clinical field hours. Candidates assist the teacher, provide individual student help, and tutor students as needed. Teacher candidates are also expected to spend at least 2 of the hours helping with an after-school event (Family Fun Night, Saturday School Festival, theater or dance events, art shows/exhibits, musical events, Odyssey of the Mind events or practice, rehearsals etc).

**Clinical III:** CED 300 Clinical III: Curriculum and Instructional Design (**minimum of 45 school based clinical hours**)

Clinical III focuses on curriculum and instructional design in a school based clinical, with a focus on using formative assessment in the classroom. Teacher candidates observe and assist their assigned cooperating clinical teacher while learning the principles of curriculum and instructional design. Teacher candidates plan, teach and reflect on a minimum of 3 formal lessons in their assigned classroom. It is recommended that teacher candidates and cooperating teachers begin this clinical experience using co-teaching strategies and working together. The clinical educator and cooperating clinical teacher provide feedback using a formal observation instrument. Teacher candidates

in need of more mentoring are provided additional time and support to improve performance before advancing.

**Clinical IV: CED 400 Clinical IV: Diagnosis and Prescription (minimum of 45 school based clinical hours)**

In Clinical IV, teacher candidates focus on diagnosis and prescription of student behavior and academic performance in this school based clinical. Teacher candidates develop and implement a student improvement plan for behavior using Applied Behavior Analysis and an academic improvement plan for achievement based on student learning data. In addition, teacher candidates plan, teach and reflect on a minimum of three formal lessons observed by their clinical educator and cooperating clinical teacher.

**Clinical V: CED 450 Clinical V: Practicing Teaching (formerly Methods) (minimum of 80 school based clinical hours)**

CED 450 Clinical V: Practicing Teaching requires a minimum of 80 school based clinical experiences. Candidates are expected to practice teaching for full days on their clinical schedules. This is the first part of the yearlong clinical or residency. Candidates will demonstrate expertise at planning, teaching, assessing achievement, writing units, developing professional growth plans, reflecting on outcomes, and collaborating with teachers at their assigned clinical placement school. Teacher candidates plan, implement and reflect on a minimum of 3 formal lesson plans during this clinical. All other lessons candidates are assigned to teach include lesson planning and writing. Candidates focus on improving student achievement while considering the student growth goals for their individual classroom. Monitoring and tracking student success with a plan for re-teaching throughout the duration of the year-long residency is required.

**Clinical VI: The Professional Semester**

## Clinical Placement

### The Professional Semester and Clinical Experiences

ekustudentteaching@eku.edu  
Bert Combs 425  
(859) 622-8620

- The Office of Professional Education Services receives and evaluates all applicants for the professional semester, determines appropriate professional disposition of the applicant, and provides continuous assessment of the applicant's pre-teaching and teaching experiences during the professional semester.
- Candidates are discouraged from taking any other courses during the professional semester.

### Application for The Professional Semester

1. Applicants must be admitted to the professional education program prior to the application semester.
2. Applicants must file an application during the first four weeks of the semester prior to the term in which professional teaching is desired.
3. Applications filed will be evaluated and processed for approval or disapproval.

### Evaluation of Application will Include in Part

1. The planned curriculum. Each applicant must have an active Degree Works plan which reflects any and all approved changes.

2. All prerequisites in professional education and pre-professional teaching semester curricula in the applicant's area as prescribed by the *Catalog*, must be completed prior to the professional semester.
3. Recommendation made by the applicant's advisor.
4. Candidate must complete a Child Abuse Neglect Check (CAN) which is submitted to the district office of your first choice with proof it was submitted provided to the Office of Professional Education Services.
5. Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions:
  - Candidates must review the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a new COEAHS Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review the character and fitness questionnaire contained in Section III of the CA-1 incorporated by reference in 16 KAR 2:010 and sign a new COE Professional Character and Fitness Declaration form. KRS 161.042 requires a state and national criminal records check as a condition for admission to student teaching. Applicants must process a criminal records check in the district in which student teaching will occur and submit a copy of the report to the Office of Professional Education Services for approval<sup>1</sup> by the College of Education and Applied Human Sciences.
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators. Candidates must review and sign a new COEAHS Professional Dispositions Declaration form.
6. Behavior that relates to the moral, ethical, social, and personal standards of professional competency. The applicant's comportment will be subject to review and appraisal by the department responsible for the professional semester recommendation and the College of Education and Applied Human Sciences.
7. Academic Requirements: Undergraduate degree students' GPAs are based on the hours attempted as shown on the official EKU transcript. Post degree certification students' GPAs are based on all undergraduate course work and on the hours attempted as shown on the official EKU transcript.
  - All programs: An overall grade point average of 2.75 on a 4.0 scale; or a grade point average of 3.0 on a 4.0 scale on the last thirty hours of credit completed. Instructional Technology: Candidates must complete EDF 204 Emerging Instructional Technologies with a grade of "C" or higher; candidates enrolled in a P-12 music education program will take MUS 384 Survey of Music Technology with a grade of "C" or higher; Clinical Experiences: CED 100 Clinical I: Introduction to the Education Profession and CED 200 Clinical II: Understanding the Learner must be completed with a S. CED 300 Clinical III: Curriculum and Instructional Design, CED 400 Clinical IV: Diagnosis and Prescription, CED 450 Clinical V: Practicing Teaching must be completed with a grade of "B" or higher in each course.
  - Elementary and Middle Grade: Minimum 2.75 GPA with a grade of "C" or higher in courses in the core and supporting course requirements, area(s) of academic emphasis, professional education requirements (see program display for a list of courses), teaching minor(s), and certification endorsement(s).
  - Secondary: Minimum 2.75 GPA in teaching major(s), minor(s), area(s) of academic emphasis, and certification endorsement(s). See program area for specific course

grade requirements; and a minimum 2.75 GPA with a grade of "C" or higher in courses in "professional education requirements" (see program display for a list of courses). A minimum of seventy-five percent of major and seventy-five percent of supporting course requirements must be completed prior to the professional semester. Individual program areas may require a higher percentage of credit hours completion prior to the professional semester.

- Special Education: Minimum 2.75 GPA with a grade of "C" or higher in courses in the "major, core, and option," "elementary/middle grade and supporting course requirements," area of academic emphasis, professional education requirements (see program display for a list of courses), teaching minor(s), and certification endorsement(s).
8. Candidates must submit satisfactory pre-service disposition reviews from their advisor and a designated methods instructor as part of the application process.
  9. Candidates must submit satisfactory pre-service disposition reviews from one cooperating teacher and one Clinical Educator at the end of the professional semester experience.
  10. Candidates must have *taken* their PLT and applicable PRAXIS II exam(s) (see <https://www.ets.org/praxis/ky> (<https://www.ets.org/praxis/ky/>)) Passing the exams is required for certification, and candidates who do not pass their PLT and subject exams may be required to participate in study workshops during their professional semester.
  11. Minimum of 200 hours of field experiences in a variety of Primary-12 school settings which allow the candidate to participate in the following:
    - a. Engagement with diverse populations of students which include
      - i. Students from a minimum of two different ethnic or cultural groups of which the candidate would not be considered a member;
      - ii. students from different socioeconomic groups;
      - iii. English language learners;
      - iv. Students with disabilities; and
      - v. Students from across elementary, middle school, and secondary grade levels
    - b. Observation in schools and related agencies, including but not limited to: Family Resource Centers or Youth Service Centers
    - c. Student Tutoring
    - d. Interaction with families of students
    - e. Attendance at school board and school-based council meetings
    - f. Participation in a school-based professional learning community
    - g. Opportunities to assist teachers or other school professionals.

Clinical experience hours are submitted, and performance evaluated during the term the candidate enrolls in a clinical course. In order to qualify for admission to the professional semester candidates must demonstrate that they have met all clinical performance requirements as evidenced on performance-based assessments to demonstrate candidates' development of the knowledge, skills, and professional dispositions that are associated with a positive impact on the learning and development of P-12 students and earn a minimum grade of "S" or "B" in each clinical course.

1. Other requirements as found in the appropriate department presentation.

1

"Approval" is a formal review process of the professional character and fitness declaration and criminal records report. Professional disposition issues or violations of the professional code of ethics will be referred to the Professional Education Admission Committee. Any misrepresentation of facts, by omission or addition, may result in the denial of admission to student teaching and revocation of admission to teacher education. Approval is required prior to entry in the professional teaching experience.

## Department of American Sign Language & Interpreter Education Chair

Dr. Daniel Roush  
(859) 622-4966  
Wallace 216

### Faculty

S. Champlin, S. Evans, N. Hill, R. Kreutzer, H. Lewis, K. Moore, D. Roush, and T. Stevens.

American Sign Language (ASL) is the indigenous language of culturally-Deaf people used throughout most of North America. Over the last 50 years, linguists have established that ASL is a complete, natural language that has a grammar, lexicon, and semantics that are fundamentally different than spoken English or other signed languages used in other areas of the world. ASL's indigenous roots stem from the intermixing of Martha's Vineyard Sign Language, Indian Sign Language, and Parisian French Sign Language when Deaf people came together to form the first school for the Deaf in America, established over 200 years ago. ASL signers from the Deaf community consider themselves to be members of a linguistic minority and their shared visual language is the heart of their unique visual culture.

Developing fluency in ASL as a second language is a considerable challenge and takes years of language immersion and education. To support students in this effort, we offer a full B.S. degree in ASL & English Interpretation and a minor in ASL Studies.

### ASL & English Interpretation B.S.

The goal of the Interpretation B.S. program is to prepare students to become professional interpreters who are language mediators between people who do not share the same language (between ASL signers and English speakers). Interpreters must remain neutral and do not advocate for the ASL community nor express their own thoughts while performing their duties. This program is nationally accredited by the Commission on Collegiate Interpreter Education.

### ASL Studies minor

The goal of the ASL Studies minor is to prepare students to communicate directly in ASL in their area of focused service and advocacy. They are not interpreters, but are highly bilingual and can communicate their own spontaneous thoughts in ASL. Examples of careers where bilingual skills are invaluable include: child development, education, vocational rehabilitation, social work, legal, mental health, medical, recreation, non-profit organizations, tourism, and hospitality, etc.

All students who are accepted by EKU's Admissions Office and declare their major as ASL and English Interpretation are admitted as "pre- ASL

and English Interpretation” majors. However, admission to the University as a “pre-ASL and English Interpretation” major does not guarantee admission to the ASL and English Interpretation program (ITP). Specific admission criteria for the full ITP program is explained below.

## Transfers from Other Colleges and Universities

Only the freshman and sophomore-level core courses [i.e. courses in ASL (ASL 101 American Sign Language I, ASL 102 American Sign Language II, ASL 201 American Sign Language III, and ASL 202 American Sign Language IV, ASL 225 Introduction to Deaf Studies), and interpreting (ITP 215W Professional Issues in Interpreting, ITP 220 Processing Skills for Interpreters) with the exception of ASL 205 ASL Discourse & Depiction III] may be transferred from other colleges to satisfy requirements for the ITP majors or ASL minors within the Department of ASL and Interpreter Education. Courses for which credit is to be transferred must be essentially equivalent to the courses offered at Eastern Kentucky University. For transfer students seeking full admission to the ASL and English Interpretation program ITP, requests to waive ASL 105 ASL Discourse & Depiction I and ASL 106 ASL Discourse & Depiction II may be considered on a case-by-case basis.

## Bachelor's

- ASL and English Interpretation, Bachelor of Science (B.S.) (p. 139)

## Minor

- American Sign Language (ASL) Studies, Minor (p. 139)

## Courses

### ASL 101. American Sign Language I. (3 Credits)

I, II. A functional notional approach to learning beginning American Sign Language (ASL). Development of basic knowledge of and understanding of conversational ASL and cultural features of the language and community. 3 Lec/ 1 Lab. Gen Ed. VIII.

### ASL 102. American Sign Language II. (3 Credits)

I, II. Prerequisite: ASL 101 with a minimum grade of “C” or departmental permission. Continued development of basic knowledge of and understanding of conversational ASL and cultural features of the language and community. 3 Lec/ 1 Lab. Gen Ed. VIII.

### ASL 105. ASL Discourse & Depiction I. (1 Credit)

I, II. Co- or prerequisite: ASL 101 and declaration of the Pre-Interpretation majors. Development of ASL conversational behavior, comprehension, depiction, discourse, and fingerspelling. Cultural engagement with members of the ASL linguistic minority. 1 Lec/1 Lab.

### ASL 106. ASL Discourse & Depiction II. (3 Credits)

I, II. Prerequisite: ASL 105 with a grade of “Satisfactory”. Pre- or co-requisite of ASL 102 and declaration of the Pre-Interpretation majors. Continued development of ASL conversational behavior, comprehension, depiction, discourse, and fingerspelling. Cultural engagement with members of the ASL linguistic minority. 3 Lec/1 Lab.

### ASL 201. American Sign Language III. (3 Credits)

I, II. Prerequisite: ASL 102 with a minimum grade of  $\zeta C \zeta$  or departmental permission. Development of intermediate expressive and receptive ASL skills and cultural features of the language and community. 3 Lec/1 Lab.

### ASL 202. American Sign Language IV. (3 Credits)

I, II. Prerequisites: ASL 201 with a minimum grade of  $\zeta C \zeta$  or departmental permission. Continued development of intermediate expressive and receptive ASL skills and cultural features of the language and community. 3 Lec/1 Lab.

### ASL 205. ASL Discourse & Depiction III. (2 Credits)

I, II. Prerequisite: ASL 106 with a grade of “Satisfactory”. Pre- or co-requisite of ASL 201 and declaration of the Pre-Interpretation majors. Continued development of ASL conversational behavior, comprehension, depiction, discourse, sign production, and fingerspelling. Cultural engagement with members of the ASL linguistic minority. 2 Lec/1 Lab.

### ASL 210. ASL Fingerspelling & Numbers. (3 Credits)

I, II. Prerequisite: ASL 201 with a minimum grade of “C” or departmental permission. The course will focus on aspects of receptive and expressive fingerspelling usage, including lexicalized fingerspelling and various numbering systems within ASL.

### ASL 225. Introduction to Deaf Studies. (3 Credits)

Introduces students to the historical, sociological, cultural and political experiences of Deaf people. Provides overview of Deaf people's experiences, images, and issues from a wide variety of disciplinary perspectives. ITP Majors and ASL Minors may not audit this course. GEN ED. E-6 [GE].

### ASL 301. American Sign Language V. (3 Credits)

I, II. Prerequisite: ASL 202 with a minimum grade of “C” or departmental permission. Development of advanced expressive and receptive ASL skills and cultural features of the language and community. 3 Lec/1 Lab.

### ASL 302. American Sign Language VI. (3 Credits)

II. Prerequisite: ASL 301 with a minimum grade of “C” or departmental permission. Continued development of advanced expressive and receptive ASL skills and cultural features of the language and community. 3 Lec/1 Lab.

### ASL 305. ASL Comprehension and Fluency I. (3 Credits)

I. Prerequisite: ASL 202 with a grade of “C” or higher. Students will increase their ASL comprehension and fluency through skill-building activities. Emphasis on identifying how native ASL signers construct meaning through depictive and discursive devices.

### ASL 306. ASL Comprehension and Fluency II. (3 Credits)

II. Prerequisites: ASL 305 with a grade of “C” or higher and admission to the interpreting program, Deaf Studies Major, or departmental approval. Students will continue to increase their ASL comprehension, flexibility, and fluency through skill-building activities. Emphasis on spontaneous expression of the depictive and discursive devices that native ASL signers use to construct meaning.

### ASL 310. Application of Fingerspelling & Number Systems. (3 Credits)

II. Prerequisites: ASL 301 with a grade of “C” or better or departmental approval. The course will focus on aspects of receptive and expressive fingerspelling usage, including lexicalized fingerspelling and various numbering systems within ASL.

### ASL 325. Historical & Current Perspectives of Deaf Ways of Being. (3 Credits)

I. Prerequisites: ASL 202 and 225 with a grade of “C” or higher. Historical overview of Deaf people and their contributions to society. Comparative analysis of Deaf individuals and their diverse communities from internal and external perspectives. Emphasis on practical solutions to promote social justice.

**ASL 380. Special Topics in Deaf Studies:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: ASL 225 (C). For special workshops or topics related to the field of Deaf Studies beyond the scope of regularly offered courses. May be taken to a maximum of 9 hours provided subtitle/topics vary.

**ASL 385. Independent Work in Deaf Studies. (1-3 Credits)**

A. Prerequisite: ASL 225 (C) and departmental permission. For independent work related to the field of Deaf Studies beyond the scope of regularly offered courses. May be taken to a maximum of 6 hours provided subtitle/topics vary. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ASL 390. Contrastive Analysis: ASL and English. (3 Credits)**

II. Prerequisites: ASL 301 and 305 with a grade of "C" or higher and admission to the interpreting program, Deaf Studies program, or departmental approval. The linguistic properties of ASL and English are compared and contrasted. Areas explored include phonology, prosody, morphology, syntax, discourse, and semantics. Sociolinguistic and modality differences are also examined.

**ASL 400. ASL Skills for Majors. (1 Credit)**

I. Prerequisites: Admission to the interpreting program, ASL 202, with a minimum grade of "C" and admission to the ASL and English Interpretation program, or Deaf Studies program, or departmental approval. In this course students will continue to develop skills in American Sign Language, specifically focusing on vocabulary development and language usage beneficial for interpreters. Clinical hours required.

**ASL 401. American Sign Language VII. (3 Credits)**

I,II. Prerequisite: ASL 302 with a minimum grade of "C" or departmental permission. Continued development of advanced-high language performance level in interpretive, presentational, and interpersonal communication areas. Continued cultural engagement with members of the ASL linguistic minority.

**ASL 425. Deaf Literature. (3 Credits)**

A. Prerequisite: ASL 225 (C), 202(C). Cultural and literary analysis of ASL and Deaf-related literature (major works in text, cinema, and Video) in contemporary society. Literary style, register, grammatical features, and linguistic expression will be explored in a cultural context.

**ASL 485S. Deaf Studies Capstone. (3 Credits)**

II. Prerequisites: ASL 225, 301, 325, and ITP 215W with a grade of "C" or higher and admission to the Deaf Studies program or departmental approval. Capstone course with critical analysis of a service learning field experience. Continued development of cultural and linguistic competency as a reflective practitioner. Clinical hours required.

## American Sign Language (ASL) Studies, Minor

The minor in American Sign Language teaches communication competency in a visual language. Students become knowledgeable about aspects of the Deaf and hard-of-hearing community. For careers working with the public, this minor is beneficial for understanding and communicating with Deaf and hard-of-hearing people. This minor does not prepare students to interpret, nor fulfill the pre-admission and admission process for the ASL and English Interpretation Program.

*A grade of "C" or higher is required in each course while maintaining a 2.75 GPA or higher in the minor.*

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
ASL 201	American Sign Language III	3
ASL 202	American Sign Language IV	3
ASL 301	American Sign Language V	3
ASL 302	American Sign Language VI	3
ASL 225	Introduction to Deaf Studies	3
<b>Electives</b>		
Choose from three hours of the following:		3
ASL 305	ASL Comprehension and Fluency I	
ASL 325	Historical & Current Perspectives of Deaf Ways of Being	
ASL 380	Special Topics in Deaf Studies:____	
ASL 385	Independent Work in Deaf Studies	
ASL 425	Deaf Literature	
ITP 215W	Professional Issues in Interpreting	
SED 337	Education of the Deaf and Hard of Hearing	
<b>Total Hours</b>		<b>18</b>

## ASL and English Interpretation, Bachelor of Science (B.S.)

### Program Goal

The goal of the ASL-English Interpretation Major is to prepare professional interpreters who are competent, ethical, and life-long learners.

### Program Objectives

The objectives (or outcomes) of this program are:

1. Students of the program will develop critical and creative thinking skills.
2. Students of the program will develop competency in ASL.
3. Students of the program will develop competency in English.
4. Students of the program will possess a generalist level of knowledge in professional issues, theories, and multicultural dynamics related to the interpreting profession.
5. Students of the program will demonstrate ethical and culturally competent decision-making in various interpreter settings.
6. Students of the program will demonstrate at least entry-level competency in interpreting between ASL and English.
7. Students of the program will be able to critically assess their own work and use creative problem-solving to continually develop themselves after they leave the program.

### Admission Criteria

- Overall GPA of 2.5 or higher by the end of the semester preceding application, and
- ASL 106 ASL Discourse & Depiction II with a grade of "Satisfactory", and
- ASL 201 American Sign Language III and ASL 202 American Sign Language IV with a grade of "B" or higher, and ITP 215W Professional

Issues in Interpreting and ITP 220 Processing Skills for Interpreters with a grade of “C” or higher and

- Completed the Degrees of Reading Power Language Test, and
- Completed an admission interview by the ITP Interview Committee.

The ASL & English Interpretation (ITP) Interview Committee will select and rank applicants using the following criteria:

1. signing skills,
2. GPA,
3. score on the Degree of Reading Power Language Test,
4. interview score,
5. disposition score.

The ITP Interview Committee will determine the number of students admitted to the program in order to maintain an appropriate student-faculty ratio and based on available resources.

## Application Information

- Enrollment is limited.
- Application for full admission to the ITP does not guarantee acceptance.
- The ITP accepts students for the fall semester of all even years (i.e., 2022, 2024, etc.). The deadline for application is March 15th every even year. Special Note: For first-year students entering ECU during the fall semester of odd-numbered years, it may take 5 years to complete the program due to course prerequisites and limited course offerings, unless a student is able to transfer courses, pass credit by examinations, and/or enroll in summer classes prior to the first fall semester of the odd-numbered year.

## Progression and Retention in the Program

- A grade of “C” or higher is required for all ITP and lecture-based ASL courses (ASL 225 Introduction to Deaf Studies, ASL 325 Historical & Current Perspectives of Deaf Ways of Being, ASL 390 Contrastive Analysis: ASL and English, ASL 425 Deaf Literature), and
- A grade of “B” or higher is required (with the exception of no more than one grade of “C”) for all skill-based ASL courses (ASL 301 American Sign Language V, ASL 302 American Sign Language VI, ASL 305 ASL Comprehension and Fluency I, ASL 306 ASL Comprehension and Fluency II), and
- Maintain a 2.75 GPA in the major
- Upon successful and timely completion of ITP 470 Practicum in Interpreting I, a student will be permitted to take ITP 495 Practicum in Interpreting II only with written recommendations from the ITP faculty and the department.

## Program Requirements

CIP Code: 16.1603

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3

### Element 3

A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3

### Element 4

	Natural Sciences (p. 64)	6
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### Element 5

A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3

### Element 6

	Diversity of Perspectives Experiences (p. 65)	6
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<b>Total Hours</b>		<b>36</b>
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Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education (hours share with supporting courses)	36
	<i>Student Success Seminar</i>	
EDO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT - ASL and English Interpretation majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements.)		
ITP 495	Practicum in Interpreting II	

### Major Requirements

Prior to graduation, students are required to take the Sign Language Proficiency Interview (SLPI:ASL) or the American Sign Language Proficiency Interview (ASLPI) with scores submitted to the department. Administrators of the SLPI: ASL or ASLPI may charge testing fees to students.

#### Core Courses

ASL Requirements:		
ASL 101	American Sign Language I <sup>1</sup>	3
ASL 102	American Sign Language II <sup>1</sup>	3
ASL 105	ASL Discourse & Depiction I	1
ASL 106	ASL Discourse & Depiction II	3
ASL 201	American Sign Language III	3
ASL 202	American Sign Language IV	3
ASL 205	ASL Discourse & Depiction III	2
ASL 225	Introduction to Deaf Studies	3
ASL 301	American Sign Language V	3
ASL 302	American Sign Language VI	3
ASL 305	ASL Comprehension and Fluency I	3
ASL 306	ASL Comprehension and Fluency II	3
ASL 325	Historical & Current Perspectives of Deaf Ways of Being	3
ASL 390	Contrastive Analysis: ASL and English	3
ASL 401	American Sign Language VII	3
ASL 425	Deaf Literature	3

ITP Requirements:

ITP 215W	Professional Issues in Interpreting	3
ITP 220	Processing Skills for Interpreters	3
ITP 310	Professional Decision Making	3
ITP 320	English-to-ASL Interpreting I	3
ITP 325	ASL-to-English Interpreting I	3
ITP 340	Interactive Interpreting I	3
ITP 420	English-to-ASL Interpreting II	3
ITP 425	ASL-to- English interpreting II	3
ITP 440	Interactive Interpreting II	3
ITP 470	Practicum in Interpreting I	3
ITP 495	Practicum in Interpreting II	12

Supporting Course Requirements

SJS 101	Understanding Social Justice and Human Struggle	3
ANT 120	Introduction to Cultural Anthropology (Element 5B) G	

**Total Hours** **127**

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

Note: ASL 101 American Sign Language I & ASL 102 American Sign Language II are major core courses and will not count toward Gen. Ed. Element 6. Therefore ASL & English Interpretation majors are expected to fulfill Element 6 with courses other than ASL 101 American Sign Language I & ASL 102 American Sign Language II.

## Department of Applied Human Sciences

### Interim Chair

Dr. Karina Christopher  
(859) 622-3445  
Burrier 102

### Faculty

J. Ahn, D. Bush, K. Christopher, M. Clouse, E. Eliassen, L. Gannoe, M. Gravid, R. Harrington, A. Hickey, J. S. Kang, D. Kim, J. Reed, and M. Sciaraffa.

The Department of Applied Human Sciences offers four Bachelor of Science (B.S.) degree programs:

- Food and Nutrition with Concentrations in Dietetics,
- Culinary Nutrition and Food Management;
- Child and Family Studies with Concentrations in Child Development, Family Studies, Interdisciplinary Early Childhood Education: Family and Consumer Sciences Education (Teaching);
- Global Hospitality and Tourism with Concentrations in Gastronomic Tourism and Sustainable Hospitality.

Minors are offered in:

- Apparel Design and Merchandising,
- Child and Family Studies,
- Family and Consumer Sciences,

- Foodservice Administration, and
- Food and Nutrition.

Information on the Master of Arts in Teaching (M.A.T.) for Family and Consumer Sciences Education may be found in the EKU Graduate Catalog. Students following a first or second major, minor or associate degree must maintain a “C” average in departmental courses (CDF, FCS, FRM, NFA prefixes). Certain degree programs may have a higher GPA requirement.

The mission of the Department of Applied Human Sciences is to prepare professionals and leaders who improve the quality of individual, family, and community life through critical and creative thinking and effective communication.

## Professional Liability Insurance

Students enrolling in the following classes – in the Department of Applied Human Sciences – are required to register for student Professional Liability Insurance. This fee is listed in each semester’s schedule of classes. Please see the section on Student Liability Insurance for the College of Health Sciences.

Code	Title	Hours
CDF 246	Creative Activities and Materials for Young Children	3
CDF 310	Observation and Assessment in ECE	3
CDF 327S	Family Involvement with Young Children	3
CDF 349	Co-op or Appl Lrn: Child Devel	0.5-8
CDF 351	Practicum for Early Childhood Practitioners	3
CDF 399	Early Childhood Practicum	3-6
CDF 405	Prog Plan for Infant & Toddler	3
CDF 406	Prog Plan for Preschool Chldrn	3
CDF 443	Family Studies Practicum	9
CDF 450	Early Childhood Practicum	9
CDF 544	Early Childhood Development and Program Planning	3
CDF 744	Early Child Dev&Prog Planning	3
CDF 849	Spec Prob Child Development	1-3
FCS 349	Applied Learning in Family and Consumer Sciences	0.5-8
NFA 326	Field Experiences in Quantity Food Production	3
NFA 349	Applied Learning in Nutrition, Foods, and Food Administration	0.5-8
NFA 830	Dietetic Internship - Part One	6
NFA 831	Dietetic Internship-Part Two	6
NFA 835	Community Nutrition Practicum	6

## Criminal Records

Students are required to observe and/or interact with young children or school age children in a number of courses offered by the department. Therefore, students enrolled in these courses – must have a criminal record check and child abuse neglect (CAN) check performed. Students with a criminal or CAN record may be required to drop the course and select another major.

Code	Title	Hours
CDF 246	Creative Activities and Materials for Young Children	3

CDF 310	Observation and Assessment in ECE	3
CDF 327S	Family Involvement with Young Children	3
CDF 349	Co-op or Appl Lrn: Child Devel	0.5-8
CDF 351	Practicum for Early Childhood Practitioners	3
CDF 399	Early Childhood Practicum	3-6
CDF 405	Prog Plan for Infant & Toddler	3
CDF 406	Prog Plan for Preschool Chldrn	3
CDF 443	Family Studies Practicum	9
CDF 450	Early Childhood Practicum	9
CDF 544	Early Childhood Development and Program Planning	3
CDF 744	Early Child Dev&Prog Planning	3
CDF 849	Spec Prob Child Development	1-3
CDF 405	Prog Plan for Infant & Toddler	3
CDF 406	Prog Plan for Preschool Chldrn	3
CDF 443	Family Studies Practicum	9
CDF 450	Early Childhood Practicum	9
CDF 541	Infant- Toddler Development and Group Care	3
CDF 544	Early Childhood Development and Program Planning	3

## Tuberculosis (TB) Skin Tests

Students are required to observe and/or interact with young children or school age children in the following courses –

Code	Title	Hours
CDF 246	Creative Activities and Materials for Young Children	3
CDF 310	Observation and Assessment in ECE	3
CDF 327S	Family Involvement with Young Children	3
CDF 349	Co-op or Appl Lrn: Child Devel	0.5-8
CDF 351	Practicum for Early Childhood Practitioners	3
CDF 399	Early Childhood Practicum	3-6
CDF 405	Prog Plan for Infant & Toddler	3
CDF 406	Prog Plan for Preschool Chldrn	3
CDF 443	Family Studies Practicum	9
CDF 450	Early Childhood Practicum	9
CDF 544	Early Childhood Development and Program Planning	3
CDF 744	Early Child Dev&Prog Planning	3
CDF 849	Spec Prob Child Development	1-3

Therefore, students enrolled in these courses are required to submit a negative TB test. Students will be permanently dis-enrolled from the course if the negative tests results are not submitted by the deadline.

## Youth Leader Report (YLR)

Students are required to observe and/or interact with young children or school age children in the following courses – must have a Youth Leader Background check performed. Students with a criminal record may be required to drop the course and select another major.

Code	Title	Hours
CDF 203	Philosophical & Historical Foundations of the EC Profession	3
CDF 246	Creative Activities and Materials for Young Children	3
CDF 310	Observation and Assessment in ECE	3
CDF 327S	Family Involvement with Young Children	3
CDF 349	Co-op or Appl Lrn: Child Devel	0.5-8
CDF 351	Practicum for Early Childhood Practitioners	3
CDF 399	Early Childhood Practicum	3-6

## Accreditations and Approvals

The Department of Applied Human Sciences has several accreditations. The Burrier Child Development Center is accredited by the National Association for the Education of Young Children. The Dietetics concentration (B.S. Food and Nutrition) is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) as a Didactic Program in Dietetics (DPD). The Family Studies Concentration in the Child and Family Studies B.S. is approved by the National Council on Family Relations.

## Bachelor's

- Child and Family Studies, Bachelor of Science with a Concentration in Child Development (B.S.) (p. 149)
- Child and Family Studies, Bachelor of Science with a Concentration in Family Studies (B.S.) (p. 150)
- Child and Family Studies, Bachelor of Science with a Concentration in Interdisciplinary Early Childhood (B.S.) (p. 152)
- Family and Consumer Sciences Education (Teaching), Bachelor of Science (B.S.) (p. 154)
- Food and Nutrition, Bachelor of Science with a Concentration in Culinary Nutrition and Food Management (B.S.) (p. 156)
- Food and Nutrition, Bachelor of Science with a Concentration in Dietetic (B.S.) (p. 157)
- Global Hospitality and Tourism, Bachelor of Science with a Concentration in Gastronomic Tourism (B.S.) (p. 160)
- Global Hospitality and Tourism, Bachelor of Science with a Concentration in Sustainable Hospitality (B.S.) (p. 161)

## Minor

- Apparel Design and Merchandising, Minor (p. 149)
- Child and Family Studies, Minor (p. 154)
- Family and Consumer Sciences, Minor (p. 156)
- Food and Nutrition, Minor (p. 159)

## Certificate

- Apparel Design & Merchandising, Certificate (p. 148)
- Early Childhood Director, Certificate (p. 154)
- Gastronomic Tourism, Certificate (p. 159)
- Infant/Toddler Care & Education, Certificate (p. 162)
- Sustainable Hospitality, Certificate (p. 162)

## Courses

### Apparel Design and Merchandising

#### ADM 102. Introductory Apparel Production. (3 Credits)

I, II. Basic principles of apparel production; selection, alteration, and fitting of commercial patterns.

**ADM 119. Introduction to Apparel Design and Merchandising. (3 Credits)**

I. An introductory study of apparel and textile producers, designers, merchandisers, retailers, consumer characteristics, consumer behavior, and ethical issues. Information sources about the industry and consumers are examined. Exploration of career opportunities.

**ADM 201. Introduction to Textiles. (3 Credits)**

I, II. Introduction to fibers, yarns, fabrics, colorations, and finishes. Emphasis on consumer use. 2 Lec/2 Lab.

**ADM 203. Pattern Alteration and Fitting. (3 Credits)**

II. Prerequisite: ADM 102. A basic study of pattern alteration and fitting using commercial patterns.

**ADM 210. Dress, Appearance and Culture. (3 Credits)**

A. Prerequisites: CDF 132 and PSY 200. Social, cultural, and psychological factors which influence beliefs, attitudes and choices regarding appearance and dress of individuals and groups.

**ADM 222. Fashion Illustration. (3 Credits)**

A. Methods and materials for clothing illustration, including sketching of the elongated fashion figure and computer-aided-design. Illustration, color and fabric rendering of original designs and clothing lines.

**ADM 300. Apparel and Textile Sourcing. (3 Credits)**

I. Prerequisites: ADM 119, 201, and ECO 230. Study of domestic and international apparel and textile sources of supply. Examines topics related to textile/apparel production, manufacturing, import/export, retailing and consumption.

**ADM 302. Textile Evaluation and Specification. (3 Credits)**

II. Prerequisite: ADM 201. Performance evaluation of textiles. Examination and development of textile standards and specifications. 2 Lec/2 Lab.

**ADM 310. Historical Costume and the Social Order. (3 Credits)**

I. Cross listed as WGS 310. Prerequisite: ADM102 or 201. History of dress from ancient Egypt through the 20th century. Factors which influence the style of dress are studied and relationship between costume of the past and current modes. Credit will not be awarded to students who have credit for WGS 310.

**ADM 312. Flat Pattern Draping Design. (3 Credits)**

A. Prerequisite: ADM 102 or department approval. Development of apparel designs through flat pattern and draping techniques.

**ADM 313. Apparel Design and Quality. (3 Credits)**

II. A study of apparel selection including terminology, sizing of ready-to-wear, factors influencing quality levels of sewn products, and principles of design and aesthetics of dress.

**ADM 319. Apparel Merchandising. (3 Credits)**

A. Prerequisites: ADM 119 and ECO 230. The merchandising of apparel, including merchandise control, buying procedures, vendors, vendor relations, planning assortments and budgets for basic and fashion categories. Practice in merchandise mathematics.

**ADM 339. Visual Merchandising. (3 Credits)**

I. Prerequisite: junior standing or department approval. Principles and techniques used in the display of fashion merchandise and their application in planning and actual display of fashion goods for store windows and interiors.

**ADM 349. Applied Learning in Apparel. (0.5-8 Credits)**

A. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester. Total hours: eight, associate; sixteen, baccalaureate. Minimum of 80.

**ADM 349A. Cooperative Study: Apparel. (0.5-8 Credits)**

A. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester. Total hours: eight, associate; sixteen, baccalaureate. Minimum of 80 hours work required for each academic credit.

**ADM 349B. Cooperative Study: Apparel. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**ADM 349C. Cooperative Study: Apparel. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**ADM 349D. Cooperative Study: Apparel. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**ADM 349E. Cooperative Study: Apparel. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**ADM 411. Advanced Apparel Production. (3 Credits)**

A. Prerequisites: ADM 102 or department approval. Tailoring and other advanced apparel production techniques. Exploration of appropriate production techniques for specialty fabrics.

**ADM 412. Advanced Apparel Design. (3 Credits)**

A. Prerequisites: ADM 201 and 312 or department approval. Solving design problems through fabric selection, patternmaking techniques, and apparel production methods. Presentation of design concepts in a portfolio.

**ADM 413. Apparel Product Development. (3 Credits)**

II. Prerequisites: ADM 102, 210, 300, 313, 349. Problem solving and the development of sewn products and services in the apparel industry.

**ADM 414. Apparel Design and Merchandising. (6 Credits)**

A. Prerequisites: ADM 312 or 319, 413 and 2.0 cumulative GPA. Supervised practicum studying apparel design and/or merchandising in manufacturing, design, retail or wholesale firms.

**ADM 419. Special Problems in ADM. (1-3 Credits)**

A. Prerequisites: 3.0 GPA and department approval. The student selects a problem and works under the supervision of the instructor. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours, providing additional study projects differ.

**ADM 550. ADM Topics:\_\_\_\_. (1-3 Credits)**

A. A course designed to offer specialized expertise in numerous areas related to textiles, clothing, and fashion. May be retaken to a maximum of six hours provided topics vary.

**ADM 750. ADM Topics:\_\_\_\_\_. (1-3 Credits)**

A. A workshop course designed to offer specialized expertise in numerous areas related to textiles, clothing and fashion. May be retaken to a maximum of six hours provided workshop topics vary.

**ADM 810. Socio-Psych Factors of Apparel. (3 Credits)**

A. Social, cultural, and psychological factors which influence personal satisfaction in selection and use of apparel.

**ADM 819. Special Problems in ADM. (1-3 Credits)**

A. Prerequisites: 3.0 GPA and instructor approval. The student selects a problem and works under the supervision of the instructor. May be retaken to a maximum of six hours providing topics vary. Students having received credit for the course at the 500 level may take this course to a maximum of six hours, including the undergraduate credits. Those who have not received credit for this course at the undergraduate (500) level may retake it to a maximum of six hours credit. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**Child and Family Studies****CDF 132. Introduction to the Family. (3 Credits)**

II. Cross listed as WGS 132. Ecological and systems approach applied to public and private family concepts; historical changes and current status; relationships among individuals, families, consumers, and communities; status of women, men, children and the elderly; public policy related to changes in the family. Credit will not be awarded to students who have credit for WGS 132.

**CDF 203. Philosophical & Historical Foundations of the EC Profession. (3 Credits)**

I, II Corequisite CED 100. An orientation to the profession: Exploration of the qualities, expectations, & responsibilities of an EC professional. Relationships among early learning standards, history of the profession, interdisciplinary fields, professional organizations, & philosophical approaches. Background check College approved procedure must be ordered and paid for by the first day of class. Credit will not be awarded for both CDF 203 and EDF 203.

**CDF 210. Special Topics in Early Childhood Education:\_\_\_\_. (1-3 Credits)**

A. Selected topics in child development and early childhood program planning. May be retaken to a maximum of six hours provided topics vary.

**CDF 232. Identity and Sexuality. (3 Credits)**

I, II. An exploration of the changing attitudes about and among men/women and their effect on choices and interpersonal relationships. Emphasis will be on promotion and maintenance of positive mental, physical, emotional, and sexual development. Gen. Ed. Block VIII, and Element 6.

**CDF 235. Child Development: Conception-Eight Years. (3 Credits)**

I, II. Developmental characteristics and theory pertinent to children conception to age eight. Special emphasis on early childhood theoretical frameworks.

**CDF 236. Interaction and Guidance. (3 Credits)**

I, II. Overview of guidance strategies in fostering children's social competency within group or individually. Adults' role in various interactions (e.g. parent-child, teacher-child) and resources for working with families/parents (e.g. parent education workshop) will be explored.

**CDF 243. Introduction to Family Life Programs. (3 Credits)**

A. Prerequisite or Corequisite: CDF 132. Examination of programs which focus on forming partnerships with families through the public, private, and nonprofit sectors to support family and individual well-being. Career development and opportunities explored.

**CDF 246. Creative Activities and Materials for Young Children. (3 Credits)**

I, II. Prerequisite: CDF 235 or department approval. Survey of learning experiences in various curriculum areas. Planning activities, including techniques and materials, to provide environment appropriate to the age and background of young children for the individual child based on age, ability, culture and ethnicity.

**CDF 310. Observation and Assessment in ECE. (3 Credits)**

(3) I,II. Prerequisite: CDF 235. Authentic assessment approaches through observation of children in natural environments. Intentional planning and implementation of Developmentally Appropriate Practice in EC settings. Special emphasis on linking assessment to the EC curriculum.

**CDF 327. Family Involvement w/Children. (3 Credits)**

I, II. Study of effective relationships with families. Methods and materials useful in fostering family life education, including adult learning principles. Experiences include implementing family service plans, planning discussion groups, conducting home visits and parent-teacher conferences.

**CDF 327S. Family Involvement with Young Children. (3 Credits)**

I, II. Prerequisites: CDF 235 or CDF 241 and 244, 236, and 246 or CDF 345 or departmental approval. Study of effective relationships with families. Methods and materials useful in fostering family life education, including adult learning principles. Experiences include implementing family service plans, planning discussion groups, conducting home visits, and parent-teacher conferences. Includes 15 service learning hours.

**CDF 331. Marriage and Intimate Relationships. (3 Credits)**

I. Cross listed as WGS 331. The process within and types of intimate relationships in contemporary times. Topics include singlehood, partner selection, marriage, divorce, remarriage, longterm enduring marriage, and factors which affect the success of intimate relationships. Credit will not be awarded to students who have credit for WGS 331.

**CDF 342. Child and Adolescent Development. (3 Credits)**

II. Study of U.S. youth, utilizing systems theory and a life-course perspective approach. Effects of economic, social, and technological change on policies and programs affecting youth of diverse backgrounds.

**CDF 343. Prog Plan for Preschool Child. (3 Credits)**

I, II. Prerequisites: CDF 235, 236 and 246 or CDF 345 or department approval. Planning, implementation, and evaluation of developmentally and culturally appropriate environment for preschool children. Emphasis on inquiry learning, documentation, project work, collaborative work with families/colleagues/community, and various programs (e.g. Montessori, Head Start, HighScope).

**CDF 344. Prog Plan-Infants & Toddlers. (3 Credits)**

I, II. Prerequisite: CDF 235. Planning, implementation, and evaluation of developmentally and culturally appropriate environments for infants and toddlers. Emphasis is placed on the caregiver-infant relationship, developmental assessment, laboratory and field experiences, and environmental adaptations for special needs.

**CDF 349. Co-op or Appl Lrn: Child Devel. (0.5-8 Credits)**

(.5) I, II. Prerequisite: CDF349T. Co-requisite: CDF 405 & CDF 406. Collaborate with educators to observe and analyze education practices and theories of teaching and learning within various settings. Minimum of 40 hours field experience required.

**CDF 349A. Cooperative Study: Child Development. (0.5-8 Credits)**

A. Prerequisite: department approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. Maximum of three hours may be counted in major requirements toward degree.

**CDF 349B. Cooperative Study: Child Development. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies. Maximum of three hours may be counted in major requirements toward degree.

**CDF 349C. Cooperative Study: Child Development. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies. Maximum of three hours may be counted in major requirements toward degree.

**CDF 349D. Cooperative Study: Child Development. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies. Maximum of three hours may be counted in major requirements toward degree.

**CDF 351. Practicum for Early Childhood Practitioners. (3 Credits)**

A. Prerequisites: department approval, 2.5 cumulative GPA, minimum grade of C in all courses with CDF prefix. Enrollment limited to students who have earned a Child Development Associate credential with college credit. Teaching experience in early childhood programs emphasizing emergent curriculum, documentation, project work, and family involvement. Meetings for collaborative.

**CDF 363. Early Childhood Literacy. (3 Credits)**

(3) I,II. Prerequisite: Admission to Child & Family Studies or Departmental Approval. An exploration of the emergent literacy development of young children within the language-rich context of play. Emphasis on state & national language arts standards, 2nd language learners, literacy assessment, resources for literacy instruction. Course material presented within theoretical context.

**CDF 399. Early Childhood Practicum. (3-6 Credits)**

(3-6) III. Prerequisites: Admission to Child and Family Studies or department approval. Supervised practicum experience in programs serving young children & families. Focus on organizations at the public, private and non-profit sectors. Open to B.S. Child Development students only. Minimum of 160 hours of field experience.

**CDF 405. Prog Plan for Infant & Toddler. (3 Credits)**

(3) I, II. Formerly CDF 344. Prerequisite: Admission to Child and Family Studies or departmental approval. Planning, implementation, and evaluation of developmentally and culturally appropriate environments for infants and toddlers. Emphasis is placed on the caregiver-infant relationship, intentional teaching and curriculum/program assessment, laboratory and field experiences, and environmental adaptations for special needs. Includes. Credit will not be awarded for both CDF 344 and 405.

**CDF 406. Prog Plan for Preschool Childrn. (3 Credits)**

(3) I,II. Prerequisites: Admission to Child and Family Studies or departmental approval. Planning, implementation, and evaluation of developmentally and culturally appropriate environments for preschool children. Emphasis on intentional teaching, curriculum/program assessment, inquiry learning, documentation, project work, collaborative work with families/colleagues/community, and various programs (e.g. Montessori, Head Start, High Scope). Credit will not be awarded to students who have credit for CDF 343.

**CDF 424. Diversity Awareness Prof Prac. (3 Credits)**

II. Prerequisite: junior standing. Professionals working with individuals and families today must develop cultural competency. With a focus on sensitivity and respect, this course provides an overview of diversity in society, including race, gender, socioeconomic status, sexual orientation, religion, and other forms of diversity.

**CDF 437. Family Stress and Resilience. (3 Credits)**

I, II. Prerequisite: CDF 132 or department approval. Study of stressors which may affect the quality of family life and resiliency factors which families and individuals employ to cope effectively with these stressors. Current research and models of family stress and resilience are studied.

**CDF 441. Family Dynamics in Adulthood and Aging. (3 Credits)**

A. Individual and familial development from young adulthood through death. Particular focus on changing family roles as members age. Emphasis on social changes affecting life satisfaction, living environments, and social relations of the middle-aged and elderly.

**CDF 443. Family Studies Practicum. (9 Credits)**

A. Prerequisites: CDF 132, 243, and 247 or 327; 3.0 GPA in major, and minimum of C in all courses with a CDF prefix; senior standing. Supervised practicum experience in family life education, family resources and community-based programs serving individuals and families in the public, private, and nonprofit sectors.

**CDF 449. Special Problems in Child Development. (1-3 Credits)**

A. Prerequisites: department approval and a 3.0 GPA (major). May be retaken to a maximum of six hours provided topics vary. The student chooses a problem and works under the supervision of the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**CDF 450. Early Childhood Practicum. (9 Credits)**

I, II. Prerequisites: CDF 247 or 327, 248 or 343 and 246 or 345, 3.0 GPA in major requirements, and minimum grade of C in all courses with a CDF prefix. Practicum focusing on designing and equipping the environment, implementing learning experiences, developing strategies for guiding young children, and arranging effective communication for family involvement. Meetings for collaborative planning and reflective discussion to make program decisions.

**CDF 499. Supervised Teaching IECE. (12 Credits)**

I, II. Prerequisites: completion of all major courses, supporting courses, special education minor, and professional courses. Practice teaching in programs for children ages birth through five years focusing on organizing environments for learning, planning and implementing developmentally appropriate curricula, selecting and implementing guidance strategies, assessing individual strengths and concerns of children and their families and colleagues for the benefit of children.

**CDF 501. Prenatal and Infant Development. (3 Credits)**

I, II, A. Growth and development from conception to three years. In-depth study of theories and issues related to development during the first three years and before birth. Impact of family, education, and community will be explored.

**CDF 538. Research Analysis in Child and Family Studies. (3 Credits)**

I. Prerequisites: CDF 235 and six hours in CDF; or department approval. Students will acquire the skills required to read and evaluate professional research literature in child and family studies by examining current studies. Students will also compare and contrast the treatment of current issues in their field in both popular and professional writing.

**CDF 541. Infant- Toddler Development and Group Care. (3 Credits)**

A. Growth and development from conception to three years. Emphasis on family intervention, appropriate policies and practices for group care, assessment, disabilities, multicultural and gender issues, and caregiver professional growth.

**CDF 544. Early Childhood Development and Program Planning. (3 Credits)**

A. Corequisite CED 450. Theory pertinent to early childhood development and learning including constructivism, socially-mediated intelligence, multiple intelligences and creativity. Emphasis on emergent curriculum and teaching strategies reflecting social collaboration such as webbing, project work, and multimedia documentation.

**CDF 547. Organization and Administration of Early Childhood Programs. (3 Credits)**

I. Prerequisites: CDF 327 or 247, 343 or 248, and 344 or department approval. Review of the theories influencing the definition of goals, philosophies and rationales for establishment of early childhood programs (0-5), study of the procedures for organizing early childhood programs, and discussion of the management processes for administering quality early childhood programs.

**CDF 550. Child and Family Studies Topics:\_\_\_\_. (1-3 Credits)**

A. Study of various topics in child and family studies selected to meet student needs and interests. May be retaken to a maximum of six hours provided topics vary.

**Family and Consumer Sciences****FCS 320. Family Housing and Design. (3 Credits)**

I. Introduction to housing and its relationship to human needs. Historical, governmental and current issues influencing housing consumption of individuals and families. Design considerations emphasized include principles and elements, architecture, furniture, and space planning.

**FCS 330. Field Experience. (1-8 Credits)**

A. Prerequisites: department approval and 2.0 cumulative GPA. Supervised work experience in department approved organization. A minimum of 80 hours work required for each academic credit. Options may be taken to a maximum of 8 hours. 330A Field Experience in ADM 330B Field Experience in CDF 330C Field Experience in FCS 330D Field Experience in NFA.

**FCS 330A. Field Experience: ADM. (1-8 Credits)**

Supervised work experience in department approved organization. Field experience in ADM.

**FCS 330B. Field Experience in CDF. (1-8 Credits)**

Supervised work experience in department approved organization. Field experience in CDF.

**FCS 330C. Field Experience: FCS. (1-8 Credits)**

Supervised work experience in department approved organization. Field experience in FCS.

**FCS 330D. Field Experience: NFA. (1-8 Credits)**

Supervised work experience in department approved organization. Field experience in NFA.

**FCS 349. Applied Learning in Family and Consumer Sciences. (0.5-8 Credits)**

A. Prerequisite: department approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**FCS 349A. Cooperative Study: Family and Consumer Sciences. (0.5-8 Credits)**

A. Prerequisite: department approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**FCS 400W. Ethics and Advocacy in Family and Consumer Sciences. (3 Credits)**

Prerequisites: ENG 102 or 102R or 105(B) or HON 102 and CDF 132 and 12 additional hours in the department. History and principles of the profession of Family and Consumer Sciences. Course emphasizes the interdisciplinary nature of the field and its commitment to public policy activism to benefit individuals and families. Credit will not be awarded to students who have credit for FCS 400.

**FCS 550. Family and Consumer Sciences Topics. (1-3 Credits)**

A. Selected topics in Family and Consumer Sciences. May be retaken to a maximum of six hours provided topics vary.

**Family Resource Management****FRM 352. Family as Consumers. (3 Credits)**

I, II. Family resource management across the life course. Resource allocation and decision-making to attain family goals and financial wellbeing; time, money, housing, work-family balance. Role of family economics in marital/family satisfaction and multiple family forms. Credit will not be awarded to students who have credit for FIN 201.

**FRM 453. Balance Work/Family Resources. (3 Credits)**

A. Prerequisites: NFA 321 and FRM 352. Concentration on value identification/ clarification, the decision making process, family resource management and the management process by individuals and families. Group projects and supervised field experiences with community programs.

**FRM 456. Spec Prob Family Eco & Mgt. (1-3 Credits)**

A. Prerequisite: departmental approval. The student chooses a problem and works under the supervision of the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours provided topics vary.

**Gastronomic Tourism****GTO 210. Gastronomic Tourism. (3 Credits)**

A. An exploration of the planning, development, and management of gastronomic tourism. Emphasis on sustainable practices, stakeholders, and policies associated with successful gastronomic tours.

**GTO 320. Bourbon, Beer & Spirits. (3 Credits)**

A. The history, culture, and production of bourbon, beer, and spirits. Study of brewing and distilling tourism, with an emphasis on community impact, marketing, and sustainable practices. The student must adhere to all location-based alcohol consumption rules, including any age restrictions (for example, in the United States, the student must be age 21 or older to consume alcohol). Alternative assignments can be provided for any consumption-based assignments.

**GTO 325. Culture & Consumption of Wine. (3 Credits)**

(A). An exploration of interactions between wine, culture, and tourism. Topics include interpreting a wine label and identifying wine-growing regions around the world, understanding wine and health issues, and basic wine tasting. The student must adhere to all location-based alcohol consumption rules, including any age restrictions (for example, in the United States, the student must be age 21 or older to consume alcohol). Alternative assignments can be provided for any consumption-based assignments.

**GTO 410. Gastronomic Tour Development. (3 Credits)**

(A). Pre-requisite GTO 210. An advanced course examining environmental, societal, and economic impacts of gastronomic tourism. Creation of a gastronomic tour emphasizing cultural competence, sustainable practices, and marketing strategies.

## Global Hospitality and Tourism

### GHT 201. Hospitality & Tourism Essential. (3 Credits)

3 (A). An overview of the hospitality and tourism industry with emphasis on historical development, management and leadership functions, current trends, and future challenges.

### GHT 310. Be Our Guest. (3 Credits)

An examination of industry standards and procedures to deliver quality customer experiences. Special emphasis on improvement plans, service leadership and assessing customer satisfaction.

### GHT 320. Impact of Hospitality. (3 Credits)

3 (A). The role of culture in the development of hospitality, leisure, and travel. Sociocultural impacts of tourism and hospitality on local, regional, national, and global cultures.

### GHT 425W. Hospitality & Tourism Analysis. (3 Credits)

A. Prerequisite: ENG 102 or 102R or 105(B) or HON 102, and STA 215. Evaluation of hospitality and tourism research terminology, methods, ethics, and theory. Emphasis on analyzing professional literature to make informed decisions that impact hospitality and tourism practice.

### GHT 450. Global Hospitality Law. (3 Credits)

(A). Introductory course in hospitality and tourism law with an emphasis on laws, negligence, rules and regulations applicable to the hospitality industry worldwide.

### GHT 499. Hospitality & Tourism Practic. (3 Credits)

A. Prerequisite: Global Hospitality and Tourism Majors only and Department Approval. Directed global hospitality and tourism field experience. Minimum of 240 clock hours. May be retaken up to a maximum of 6 hrs.

## Nutrition/Foods/Foods Administration

### NFA 121. Introduction to Food Composition and Preparation. (3 Credits)

I, II. A beginning food science course which deals with food composition and the relationship of scientific processes and principles to food preparation. Lecture and laboratory experiences.

### NFA 201. Essentials of Nutrition. (3 Credits)

I, II. A scientific study of the essential nutrients and their application in meeting nutritional needs of all ages. Consideration is given to food selection, nutrition misinformation, obesity, and other common dietary problems. Gen. Ed. VI. Fulfills University Wellness Requirement.

### NFA 203. Introduction to Food and Nutrition Careers. (1 Credit)

A. A professional orientation course for future food and nutrition professionals describing pathways to management, community, and clinical careers in the field, including an overview of the relationships to healthcare, industry partners, and government food programs.

### NFA 301. Bio Nutrition. (3 Credits)

A. Prerequisites: CHE 102 or 112/116; and NFA 201. Structures and chemical properties of CHO, PRO, fat and nucleic acids, vitamins, coenzymes, minerals, and water related to metabolic processes.

### NFA 303. Nutrition Education and Counseling. (3 Credits)

(3) A. Pre-requisite: NFA 201. Discussion, practice, and application of nutrition-related education and counseling strategies and health behavior theories to develop communication and counseling skills for work with individuals and groups.

### NFA 310. Junior Seminar. (3 Credits)

I. Prerequisite: Admission to General Dietetics Program. Preparation and planning for transition to internship, graduate school or professional work. Emphasis on professional roles and responsibilities, and ethical practice in dietetics.

### NFA 317. Nutrition in the Life Cycle. (3 Credits)

I, II. Study of dietary needs adapted to periods of the life cycle.

### NFA 321. Meal Mangement. (3 Credits)

A. Prerequisites: NFA 121 and 201. Food management, planning, preparation, and service of meals through management of time, energy, money, and efficient use of equipment. Consideration is given to nutritional needs, food habits, and social customs of family groups.

### NFA 323. Experimental Foods. (3 Credits)

A. Prerequisites: NFA 121 and CHE 102 or equivalent. Advanced food science course concerning the study of the reactions and interactions of food components in complex food systems during preparation, processing, and preservation. Lecture and laboratory experiences.

### NFA 325. Quantity Food Production. (3 Credits)

I. Prerequisite: NFA 121. Corequisite: NFA 326. Standards, principles, and techniques for managing throughout the functional subsystems of a food service setting; emphasis on quality, quantity, and cost controls.

### NFA 326. Field Experiences in Quantity Food Production. (3 Credits)

I. Corequisite: NFA 325. Supervised field experience in the technical application of theory presented in NFA 325.

### NFA 328. Food Preparation and Culinary Arts. (3 Credits)

II. Prerequisites: NFA 325 and 326 each with a grade of "C" or better. Culinary and baking techniques. Emphasis on professional plating and presentation of food. 1 Lec/4 Lab.

### NFA 344. Food Purchasing. (3 Credits)

II. Prerequisites: NFA 325 and 326 or departmental approval. Principles and methods of purchasing foods and equipment for various types of food service establishments. Emphasis on specifications and factors affecting quality, and food product identification.

### NFA 349. Applied Learning in Nutrition, Foods, and Food Administration. (0.5-8 Credits)

A. Prerequisite: instructor approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

### NFA 349A. Cooperative Study: Nutrition, Foods, and Food Administration. (0.5-8 Credits)

A. Prerequisite: instructor approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

### NFA 349B. Cooperative Study: Nutrition, Foods, and Food Administration. (0.5-8 Credits)

### NFA 349C. Cooperative Study: Nutrition, Foods, and Food Administration. (0.5-8 Credits)

Work under faculty and field supervisors in placements related to academic studies.

### NFA 401. Human Nutrition. (3 Credits)

I. Prerequisites: NFA 301, BIO 307 with a minimum grade of B, and BIO 308. Study of the functions, requirements, and interrelations of macronutrients in normal nutrition; integration and regulation of energy metabolism and balance.

**NFA 402. Medical Nutrition Therapy. (3 Credits)**

I. Prerequisite or Corequisite: NFA 401. Analysis and application of nutrition assessment, documentation, and modified feeding practices including enteral and parenteral nutrition with application for therapeutic management of gastrointestinal disorders.

**NFA 403. Medical Nutrition Therapy II. (3 Credits)**

II. Prerequisite: NFA 402. Integration of nutrition therapy, pathophysiology, and biochemical alterations for assessment and management of trauma, diabetes, cancer; and cardiovascular, renal, hepatic, and pulmonary disorders.

**NFA 404. Human Nutrition II. (3 Credits)**

II. Prerequisite: NFA 401. Study of the functions, requirements, and interrelations of essential and non-essential micronutrients in normal nutrition and wellness.

**NFA 411. Community Nutrition. (3 Credits)**

A. Prerequisite: NFA 201 and 317. Survey of services, legislation, assessment, other relevant activities, and the role of nutritionists in various community settings. Development of educational resources for different populations. Field experience in community programs and settings to include individual and family nutrition counseling.

**NFA 412W. Research Application in Nutrition. (3 Credits)**

(3) I. Prerequisite: ENG 102 or 102R or 105(B) or HON 102 and STA 215 and admission to Food and Nutrition Dietetics Concentration; or departmental approval. Evaluation, interpretation, and application of professional and research literature in nutrition/dietetics; scientific writing (AMA format). Emphasis on making ethical, evidence-based practice decisions. Credit will not be awarded to students who have credit for NFA 412.

**NFA 415. Seminar in the Dietetics Prof.. (1-3 Credits)**

A. Prerequisites: NFA 401 and departmental approval. Current concepts and trends in dietetics and review of recent research. Topics include, but are not limited to, professional ethics, marketing, quality assurance and preparing for a dietetic internship.

**NFA 416. Special Problems in Nutrition. (1-3 Credits)**

A. Prerequisites: NFA 401 and departmental approval. The student chooses a problem and works under the supervision of an instructor. May be retaken to a maximum of six hours provided the topics vary. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**NFA 420. Food in Health and Wellness. (3 Credits)**

A. Prerequisites: NFA 121 and NFA 201 each with a grade of "C" or better. Application of evidence-based nutrition information for health promotion and condition management. Emphasis on menu development and modification for food service and culinary events to meet the nutritional needs and desires of consumers.

**NFA 445. Food Service Organization and Management. (3 Credits)**

A. Prerequisites: NFA 325, 326. Administrative functions within a food service system. Emphasis in top management responsibilities: financial and time management, quality assurance, legislation, labor unions, merchandising, networking, and human resource management.

**NFA 447. Food Culture and Systems. (3 Credits)**

A. Cross-cultural study of the formation of personal identities and social groups via food production, preparation, and consumption. In-depth exploration of global food systems and sustainability.

**NFA 499. Culinary Nutrition and Food Management Practicum. (3 Credits)**

A. Prerequisite: NFA 349, Food and Nutrition Majors only and Junior or Senior standing. Directed culinary nutrition and food management field experience. Minimum of 240 clock hours.

**NFA 505. Maternal and Infant Nutrition. (3 Credits)**

A. Prerequisite: NFA 317 or equivalent. Nutritional requirements prior to and during pregnancy, lactation, and infancy. Survey the effects of dietary toxicants, deficiency and excesses of nutrients. Field experience.

**NFA 507. Child and Adolescent Nutrition. (3 Credits)**

A. Prerequisite: NFA 201. Nutritional needs, problems, dietary habits, and motivations of the toddler through adolescent years. Field experience.

**NFA 509. Nutrition and Aging. (3 Credits)**

A. Prerequisite: NFA 201. The theories of causes of aging; nutritional requirements, dietary intakes and effects of nutrition on the rate of biological aging. Field experience.

**NFA 517. Sports Nutrition. (3 Credits)**

A. Prerequisite: NFA 201 or 500/700. Relationship of nutrition to optimal sports performance. Examines energy use during exercise metabolism, specific nutrient needs, nutritional strategies during training, conditions requiring special consideration, controversial and potentially dangerous nutritional practices of athletes.

**Sustainable Hospitality****SHO 341. Sustainable Hospitality. (3 Credits)**

(A). An examination of the history, purpose, and global practices in sustainable hospitality and tourism. Special attention to initiatives, organizations, and stakeholders that support sustainable hospitality development.

**SHO 410. Multigenerational Programming. (3 Credits)**

(A). An exploration of hospitality and tourism programming to meet the needs of individuals across the lifespan. Emphasis on developmentally appropriate activities and programs within each sector of the hospitality and tourism industry.

**SHO 420. Sustainable Global Practices. (3 Credits)**

(A). Pre-requisite SHO 341. Analysis of sustainable global practices in hospitality and tourism industries. Application of sustainable practices in a variety of sectors incorporating system approaches.

**SHO 460. Universal Sustainable Design. (3 Credits)**

(A). An exploration of universal design and sustainable practices utilized in hospitality and tourism industries to support inclusivity and social justice.

**SHO 475. Promoting Hospitable Exp. (3 Credits)**

(A). Pre-requisite GHT 310. A study of strategies used to enhance and promote the hospitality and tourism experience. Includes tourism branding, service culture development, and marketing.

## Apparel Design & Merchandising, Certificate

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
ADM 102	Introductory Apparel Production	3
ADM 119	Introduction to Apparel Design and Merchandising	3
ADM 201	Introduction to Textiles	3
Choose from one of the following:		3
ADM 412	Advanced Apparel Design <sup>1</sup>	
ADM 413	Apparel Product Development <sup>1</sup>	
ADM 550	ADM Topics:___	
Choose from six hours of the following:		6

ADM 203	Pattern Alteration and Fitting
ADM 210	Dress, Appearance and Culture <sup>1</sup>
ADM 310	Historical Costume and the Social Order
ADM 312	Flat Pattern Draping Design
ADM 313	Apparel Design and Quality
ADM 319	Apparel Merchandising <sup>1</sup>

**Total Hours** **18**

<sup>1</sup>  
Course may have pre-requisite or co-requisite

## Apparel Design and Merchandising, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
ADM 119	Introduction to Apparel Design and Merchandising	3
ADM 201	Introduction to Textiles	3
ADM 310	Historical Costume and the Social Order	3
ADM 313	Apparel Design and Quality	3
Choose from six hours of approved ADM electives		6
<b>Total Hours</b>		<b>18</b>

## Child and Family Studies, Bachelor of Science with a Concentration in Child Development (B.S.)

This major offers three concentrations. The Child Development concentration prepares graduates to teach or direct early childhood programs (birth through age 8). Career opportunities include Head Start, profit or non-profit child care/agencies, and family resource centers. The Family Studies Concentration prepares graduates to work with individuals and families in a variety of social service settings. Positions are available in family resource centers, community agencies, profit and non-profit organizations that provide services for children, youth, adults and families. The Interdisciplinary Early Childhood Education concentration leads graduates to Kentucky public school certification for teaching children birth through age five. Graduates learn to prepare individual education plans for children who experience developmental delays and support plans to assist families of those children. IECE majors will teach in private agencies serving infants to two years and public school settings (Pre-K, three and four year olds, and kindergarten not connected with primary programs for first through third grade). To be granted a degree in Child and Family Studies students must have a "C" or better in all CDF and supporting courses.

### Program Objectives

Upon completion of a degree in Child and Family Studies graduates will be able to:

1. assess developmental, political, social, cultural, economic and technological influences on the well-being and diversity of individuals, families and communities;
2. design and implement a range of services for individuals, children and families;

3. utilize and interpret appropriate individual, family and program evaluation measures;
4. access community resources and collaborate with community agencies/services; and
5. evaluate and monitor their professional development.

The Child Development concentration prepares graduates to teach or administer in any private early childhood program. Graduates may also be employed as a trainer for resource and referral agencies or serve as Education Coordinator in early childhood facilities.

## Admission and Progression Requirements for Child and Family Studies Concentrations Child Development and IECE

All students who are accepted by EKU's Admission office and declare their major as Child and Family Studies are admitted to the University as pre-Child and Family Studies majors. However, admission to the pre-Child and Family Studies program does not guarantee admission to the Child and Family Studies program. To be admitted to the Child and Family Studies program the following criteria must be met:

1. Minimum of 45 hours with a 2.75 overall GPA,
2. GPA of 3.0 with a grade of "C" or better in each course in the following courses

Code	Title	Hours
CDF 203	Philosophical & Historical Foundations of the EC Profession	3
CDF 235	Child Development: Conception-Eight Years	3
CDF 236	Interaction and Guidance	3
CDF 246	Creative Activities and Materials for Young Children	3
CDF 310	Observation and Assessment in ECE	3
CDF 327S	Family Involvement with Young Children	3

Once these requirements have been met, the student must apply to the Child and Family Studies Program Director for a change from the pre-Child and Family Studies program to the Child and Family Studies program.

### Program Requirements

CIP Code: 19.0701

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		

Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
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#### University Graduation Requirements

General Education		36
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<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Early Childhood Development, Family Studies and Interdisciplinary Early Childhood Education majors will fulfill ACCT with the following. (These courses are included in the Major totals)

CDF 450	Early Childhood Practicum	
CDF 443	Family Studies Practicum	
CED 499	Clinical VI: The Professional Semester (Interdisciplinary Early Childhood Education)	

#### Major Requirements

##### Core Courses

CDF 132	Introduction to the Family	3
CDF 235	Child Development: Conception-Eight Years <sup>1</sup>	3
CDF 236	Interaction and Guidance	3
CDF 327S	Family Involvement with Young Children	3
CDF 424	Diversity Awareness Prof Prac	3
CDF 437	Family Stress and Resilience	3
NFA 317	Nutrition in the Life Cycle	3
FCS 400		3

#### Concentrations

Students must select one of the following Concentrations: <sup>2</sup>

Child Development	49-51
Family Studies	
Interdisciplinary Early Childhood	

##### Supporting Course Requirements

Choose from 12-15 hours of supporting courses	
12 hours of Child Development	
12-15 hours of Family Studies	
12 hours of Interdisciplinary Early Childhood	

##### Free Electives

Choose from 10-20 hours of free electives	10-20
8-11 hours of Child Development	
17-20 hours of Family Studies	
0 hours of Interdisciplinary Early Childhood	

#### Exit Requirements

PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

<b>Total Hours</b>	<b>120-132</b>
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1  
Course meets Professional Education Requirements.

2  
May include substantial practicum hours, as mandated by program accrediting bodies.

### Concentration

Code	Title	Hours
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#### Concentration Courses

CDF 203	Philosophical & Historical Foundations of the EC Profession	3
CDF 246	Creative Activities and Materials for Young Children	3
CDF 310	Observation and Assessment in ECE	3
CDF 363	Early Childhood Literacy	3
CDF 399	Early Childhood Practicum	3-6
CDF 405	Prog Plan for Infant & Toddler	3
CDF 406	Prog Plan for Preschool Chldrn	3
CDF 450	Early Childhood Practicum <sup>1</sup>	9
CDF 538	Research Analysis in Child and Family Studies	3
CDF 547	Organization and Administration of Early Childhood Programs	3

#### Supporting Course Requirements

Choose from 12 hours of the following:	12	
SED 318	Special Education in Early Childhood	
NSC 500	Early Childhood Health Care	
OTS 515	Early Child Sensorimotor Development	
SWK 440	Addictions	
SWK 456	Children's Services	

<b>Total Hours</b>	<b>48-51</b>
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1  
CDF 450 Early Childhood Practicum is a 9 credit hour course and requires a 3.0 GPA in major requirements prior to enrolling.

## Child and Family Studies, Bachelor of Science with a Concentration in Family Studies (B.S.)

This major offers three concentrations. The Child Development concentration prepares graduates to teach or direct early childhood programs (birth through age 8). Career opportunities include Head Start, profit or non-profit child care/agencies, and family resource centers. The Family Studies Concentration prepares graduates to work with individuals and families in a variety of social service settings. Positions are available in family resource centers, community agencies, profit and non-profit organizations that provide services for children, youth, adults and families. The Interdisciplinary Early Childhood Education

concentration leads graduates to Kentucky public school certification for teaching children birth through age five. Graduates learn to prepare individual education plans for children who experience developmental delays and support plans to assist families of those children. IECE majors will teach in private agencies serving infants to two years and public school settings (Pre-K, three and four year olds, and kindergarten not connected with primary programs for first through third grade). To be granted a degree in Child and Family Studies students must have a "C" or better in all CDF and supporting courses.

## Program Objectives

Upon completion of a degree in Child and Family Studies graduates will be able to:

1. assess developmental, political, social, cultural, economic and technological influences on the well-being and diversity of individuals, families and communities;
2. design and implement a range of services for individuals, children and families;
3. utilize and interpret appropriate individual, family and program evaluation measures;
4. access community resources and collaborate with community agencies/services; and
5. evaluate and monitor their professional development.

The Child Development concentration prepares graduates to teach or administer in any private early childhood program. Graduates may also be employed as a trainer for resource and referral agencies or serve as Education Coordinator in early childhood facilities.

## Admission and Progression Requirements for Child and Family Studies Concentrations Child Development and IECE

All students who are accepted by EKU's Admission office and declare their major as Child and Family Studies are admitted to the University as pre-Child and Family Studies majors. However, admission to the pre-Child and Family Studies program does not guarantee admission to the Child and Family Studies program. To be admitted to the Child and Family Studies program the following criteria must be met:

1. Minimum of 45 hours with a 2.75 overall GPA,
2. GPA of 3.0 with a grade of "C" or better in each course in the following courses

Code	Title	Hours
CDF 203	Philosophical & Historical Foundations of the EC Profession	3
CDF 235	Child Development: Conception-Eight Years	3
CDF 236	Interaction and Guidance	3
CDF 246	Creative Activities and Materials for Young Children	3
CDF 310	Observation and Assessment in ECE	3
CDF 327S	Family Involvement with Young Children	3

Once these requirements have been met, the student must apply to the Child and Family Studies Program Director for a change from the

pre-Child and Family Studies program to the Child and Family Studies program.

## Program Requirements

CIP Code: 19.0701

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Early Childhood Development, Family Studies and Interdisciplinary Early Childhood Education majors will fulfill ACCT with the following. (These courses are included in the Major totals)		
CDF 450	Early Childhood Practicum	
CDF 443	Family Studies Practicum	
CED 499	Clinical VI: The Professional Semester (Interdisciplinary Early Childhood Education)	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CDF 132	Introduction to the Family	3
CDF 235	Child Development: Conception-Eight Years <sup>1</sup>	3
CDF 236	Interaction and Guidance	3
CDF 327S	Family Involvement with Young Children	3
CDF 424	Diversity Awareness Prof Prac	3

CDF 437	Family Stress and Resilience	3
NFA 317	Nutrition in the Life Cycle	3
FCS 400		3

**Concentrations**

Students must select one of the following Concentrations: <sup>2</sup>

Child Development	
Family Studies	42

Interdisciplinary Early Childhood

**Supporting Course Requirements**

Choose from 12-15 hours of supporting courses

12 hours of Child Development	
12-15 hours of Family Studies	
12 hours of Interdisciplinary Early Childhood	

**Free Electives**

Choose from 0-20 hours of free electives	17-20
8-11 hours of Child Development	
17-20 hours of Family Studies	
0 hours of Interdisciplinary Early Childhood	

**Exit Requirements**

PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours** **120-123**

1

Course meets Professional Education Requirements.

2

May include substantial practicum hours, as mandated by program accrediting bodies.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CDF 232	Identity and Sexuality	3
CDF 243	Introduction to Family Life Programs	3
CDF 331	Marriage and Intimate Relationships	3
CDF 443	Family Studies Practicum <sup>1</sup>	9
CDF 538	Research Analysis in Child and Family Studies	3
CDF 342	Child and Adolescent Development	3
CDF 441	Family Dynamics in Adulthood and Aging	3
<b>Supporting Course Requirements</b>		
FRM 352	Family as Consumers	3
SWK 440	Addictions	3
SWK 456	Children's Services	3
HEA 345	Drugs, the Individual, and Society	3
Choose from one of the following:		3
SOC 235	Social Problems (Element 5B) <sup>G</sup>	
SWK 310W	Social Welfare Policy History <sup>G</sup>	

**Total Hours** **42**

1

CDF 443 Family Studies Practicum is a 9 credit hour course and requires a 3.0 GPA in major requirements prior to enrolling.

G

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

## Child and Family Studies, Bachelor of Science with a Concentration in Interdisciplinary Early Childhood (B.S.)

This major offers three concentrations. The Child Development concentration prepares graduates to teach or direct early childhood programs (birth through age 8). Career opportunities include Head Start, profit or non-profit child care/agencies, and family resource centers. The Family Studies Concentration prepares graduates to work with individuals and families in a variety of social service settings. Positions are available in family resource centers, community agencies, profit and non-profit organizations that provide services for children, youth, adults and families. The Interdisciplinary Early Childhood Education concentration leads graduates to Kentucky public school certification for teaching children birth through age five. Graduates learn to prepare individual education plans for children who experience developmental delays and support plans to assist families of those children. IECE majors will teach in private agencies serving infants to two years and public school settings (Pre-K, three and four year olds, and kindergarten not connected with primary programs for first through third grade). To be granted a degree in Child and Family Studies students must have a "C" or better in all CDF and supporting courses.

## Program Objectives

Upon completion of a degree in Child and Family Studies graduates will be able to:

1. assess developmental, political, social, cultural, economic and technological influences on the well-being and diversity of individuals, families and communities;
2. design and implement a range of services for individuals, children and families;
3. utilize and interpret appropriate individual, family and program evaluation measures;
4. access community resources and collaborate with community agencies/services; and
5. evaluate and monitor their professional development.

The Child Development concentration prepares graduates to teach or administer in any private early childhood program. Graduates may also be employed as a trainer for resource and referral agencies or serve as Education Coordinator in early childhood facilities.

## Admission and Progression Requirements for Child and Family Studies Concentrations Child Development and IECE

All students who are accepted by EKU's Admission office and declare their major as Child and Family Studies are admitted to the University as pre-Child and Family Studies majors. However, admission to the pre-Child and Family Studies program does not guarantee admission to the Child and Family Studies program. To be admitted to the Child and Family Studies program the following criteria must be met:

1. Minimum of 45 hours with a 2.75 overall GPA,
2. GPA of 3.0 with a grade of "C" or better in each course in the following courses

Code	Title	Hours
CDF 203	Philosophical & Historical Foundations of the EC Profession	3
CDF 235	Child Development: Conception-Eight Years	3
CDF 236	Interaction and Guidance	3
CDF 246	Creative Activities and Materials for Young Children	3
CDF 310	Observation and Assessment in ECE	3
CDF 327S	Family Involvement with Young Children	3

Once these requirements have been met, the student must apply to the Child and Family Studies Program Director for a change from the pre-Child and Family Studies program to the Child and Family Studies program.

## Program Requirements

CIP Code: 19.0701

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Early Childhood Development, Family Studies and Interdisciplinary Early Childhood Education majors will fulfill ACCT with the following. (These courses are included in the Major totals)		
CDF 450	Early Childhood Practicum	
CDF 443	Family Studies Practicum	
CED 499	Clinical VI: The Professional Semester (Interdisciplinary Early Childhood Education)	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CDF 132	Introduction to the Family	3
CDF 235	Child Development: Conception-Eight Years <sup>1</sup>	3
CDF 236	Interaction and Guidance	3
CDF 327S	Family Involvement with Young Children	3
CDF 424	Diversity Awareness Prof Prac	3
CDF 437	Family Stress and Resilience	3
NFA 317	Nutrition in the Life Cycle	3
FCS 400		3
<b>Concentrations</b>		
Students must select one of the following Concentrations: <sup>2</sup>		
Child Development		
Family Studies		
Interdisciplinary Early Childhood		62-67
<i>Supporting Course Requirements</i>		
Choose from 12-15 hours of supporting courses		
12 hours of Child Development		
12-15 hours of Family Studies		
12 hours of Interdisciplinary Early Childhood		
<i>Free Electives</i>		
Choose from 0-20 hours of free electives		0-20
8-11 hours of Child Development		
17-20 hours of Family Studies		
0 hours of Interdisciplinary Early Childhood		
<i>Exit Requirements</i>		
PRAXIS Examination		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>123-148</b>

1

Course meets Professional Education Requirements.

2

May include substantial practicum hours, as mandated by program accrediting bodies.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CDF 246	Creative Activities and Materials for Young Children	3
CDF 310	Observation and Assessment in ECE	3
CDF 363	Early Childhood Literacy	3
CDF 405	Prog Plan for Infant & Toddler	3
CDF 544	Early Childhood Development and Program Planning	3
CSD 360	Normal Speech & Lang. Dev.	3
SED 318	Special Education in Early Childhood	3
SED 352	Special Education Early Childhood Assessment	3
SED 436	Early Intervention Programming	3
<b>Supporting Course Requirements</b>		
ELE 519	Teaching in the Kindergarten	3
NSC 500	Early Childhood Health Care	3
OTS 515	Early Child Sensorimotor Development	3
SWK 440	Addictions	3
or SWK 456	Children's Services	
<b>Professional Education Requirements <sup>1</sup></b>		
CDF 203	Philosophical & Historical Foundations of the EC Profession <sup>2</sup>	3
CDF 235	Child Development: Conception-Eight Years (Core) <sup>3</sup>	3
EDF 204	Emerging Instructional Technologies <sup>2</sup>	2
EMS 300W	Curriculum and Instructional Design	1-3
EMS 490	Classroom & Behavior Management	1-3
EDF 413	Assessment in Education	2-3
CDF 544	Early Childhood Development and Program Planning (Concentration) <sup>2,3</sup>	
SED 104	Special Education Introduction (Element 6) <sup>6</sup>	
<i>Clinical Experiences</i>		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<b>Total Hours</b>		<b>62-67</b>

1

Students must follow admission requirements for professional education. See College of Education, section regarding teacher admission and certification.

2

Course meets Professional Education Requirements.

3

Course also satisfies Core or Concentration requirements CDF 203 Philosophical & Historical Foundations of the EC Profession=EDF 203 Educational Foundations; CDF 235 Child Development: Conception-Eight Years=EDF 219 Human Development and Learning; SED 352 Special Education Early Childhood Assessment=EDF 413 Assessment in Education.

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Child and Family Studies, Minor  
Program Requirements**

Code	Title	Hours
<b>Required Courses</b>		
CDF 132	Introduction to the Family	3
CDF 236	Interaction and Guidance	3
Choose from six hours of the following:		6
CDF 235	Child Development: Conception-Eight Years	
CDF 327	Family Involvement w/Children	
CDF 342	Child and Adolescent Development	
CDF 441	Family Dynamics in Adulthood and Aging	
CDF 501	Prenatal and Infant Development	
Choose from six hours of CDF electives		6
<b>Total Hours</b>		<b>18</b>

**Early Childhood Director, Certificate  
Program Requirements**

Code	Title	Hours
<b>Required Courses</b>		
CDF 203	Philosophical & Historical Foundations of the EC Profession	3
CDF 235	Child Development: Conception-Eight Years	3
CDF 236	Interaction and Guidance	3
CDF 246	Creative Activities and Materials for Young Children	3
CDF 327S	Family Involvement with Young Children <sup>1</sup>	3
CDF 547	Organization and Administration of Early Childhood Programs	3
<b>Total Hours</b>		<b>18</b>

1

Course may have pre-requisite or co-requisite

**Family and Consumer Sciences  
Education (Teaching), Bachelor of  
Science (B.S.)**

**Program Objectives**

Upon completion of a degree in Family and Consumer Sciences Education, graduates will be able to:

1. develop conceptual understanding of child and family studies, nutrition, textiles and apparel design, resource management, housing and design;
2. develop professional attitudes and behaviors based on the history and mission of the Family and Consumer Sciences discipline; and
3. develop effective pedagogical skills and dispositions that are highly contextualized for FCS classrooms.

Graduates are prepared to teach in both middle and high school and possess excellent qualifications for working with 4-H youth or in FCS educator positions with the USDA Cooperative Extension Service. The demand for Family and Consumer Sciences teachers and extension agents is high due to current and projected shortages.

## PRAXIS Disclaimer

Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

## Program Requirements

CIP Code: 13.1308

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Family and Consumer Sciences majors will fulfill ACCT with the following. (These courses are included in the Major requirements totals)

ESE 499		
<b>Major Requirements</b>		
<i>Core Courses</i>		
CDF 132	Introduction to the Family	3
CDF 235	Child Development: Conception-Eight Years	3
FCS 320	Family Housing and Design	3
FCS 400		3
FRM 352	Family as Consumers	3
NFA 121	Introduction to Food Composition and Preparation	3
NFA 201	Essentials of Nutrition	3
NFA 317	Nutrition in the Life Cycle	3
ADM 102	Introductory Apparel Production	3
ADM 201	Introduction to Textiles	3
<i>Supporting Course Requirements</i>		
CHE 105	Chemistry for the Health Sciences (Element 4) <sup>G</sup>	
CHE 105L	Health Science Chemistry Lab (Element 4) <sup>G</sup>	
FIN 311	Personal Financial Planning	3
	Choose from six hours of the following:	6
CDF 232	Identity and Sexuality	
CDF 236	Interaction and Guidance	
CDF 331	Marriage and Intimate Relationships	
CDF 342	Child and Adolescent Development	
	Choose from three hours of ADM courses	3
	Choose from three hours of Family and Consumer Sciences Electives	3
<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
EMS 300W	Curriculum and Instructional Design	3
EMS 490	Classroom & Behavior Management	3
EMS 474	Disciplinary Literacy	3
ESE 553	Family and Consumer Sciences Education Curriculum	4
	Clinical Experiences: <sup>1</sup>	11
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>PRAXIS Examination</i>		

Appropriate PRAXIS exams must be completed for each area of certificate on being recommended.

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours** 131

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

Students must follow admission requirements for professional education. See College of Education, section regarding teacher admission and certification.

## Family and Consumer Sciences, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
ADM 102	Introductory Apparel Production	3
CDF 132	Introduction to the Family	3
CDF 235	Child Development: Conception-Eight Years	3
FCS 320	Family Housing and Design	3
FRM 352	Family as Consumers	3
Choose from one of the following:		3
NFA 121	Introduction to Food Composition and Preparation	
NFA 201	Essentials of Nutrition	
NFA 317	Nutrition in the Life Cycle	
<b>Total Hours</b>		<b>18</b>

## Food and Nutrition, Bachelor of Science with a Concentration in Culinary Nutrition and Food Management (B.S.)

The Food and Nutrition program leads to a Bachelor of Science degree in Food and Nutrition. The Food and Nutrition program includes two concentrations: Dietetics and Culinary Nutrition and Food Management.

The Dietetics concentration is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), an agency of the Academy of Nutrition and Dietetics, as a Didactic Program in Nutrition and Dietetics (DPD). The concentration's mission, goals, and objectives can be found on the Department of Applied Human Sciences website. Also available on the website is information about costs related to the program.

Students completing the DPD earn a Verification Statement, which provides eligibility to complete an accredited Dietetic Internship. Acceptance to a Dietetic Internship requires application and program matching through a competitive process. A strong academic record, work experience, and service/leadership in extracurricular activities are essential for obtaining a dietetic internship. Dietetic internships are 6 to 12 months long and include supervised practice in various areas of the dietetics profession. After completion of the internship, the student is eligible to take the national registration exam to become a Registered

Dietitian Nutritionist (RDN). In most states, including Kentucky, RDN status is sufficient to obtain a state license to practice as a dietitian.

Registered Dietitian Nutritionists (RDN) work with individuals and groups of all ages to improve health and wellness. Dietitians find employment in a variety of professional settings, including hospitals, long term care facilities, outpatient clinics, health departments, food companies, wellness programs, public health and regulatory agencies, cooperative extension, food service (including hospital, long term care, school, college/university, and prisons), private practice, sales, and research. In these settings, RDNs provide medical nutrition therapy; menu planning; recipe and product development; individual counseling related to nutrition and diet; nutrition education to groups and individuals; community nutrition program development, implementation, and evaluation; and research.

Graduates who do not complete a dietetic internship find employment opportunities in public health, food service, cooperative extension, sales, and research. With the DPD verification statement, graduates are eligible to take the national Dietetic Technician registration exam, and earn the credential Dietetic Technician Registered (DTR). Graduates of the DPD may also seek admission to graduate programs to earn an advanced degree.

The Culinary Nutrition and Food Management concentration prepares students for employment in a variety of job positions and settings within the food industry. Some of these positions include food service manager, nutrition coordinator, and food program planner. Employment settings include restaurants, schools, hospitals, long-term care, agritourism, sustainability and local foods programs, food banks and feeding programs, hotels/resorts, cruises, amusement parks, and catered events such as weddings, banquets, and corporate marketing.

### Admission and Progression Requirements

All students who are accepted by EKU's Admissions Office and declare their major as food and nutrition are considered for admission to the University as pre-food and nutrition majors. To be admitted to the food and nutrition program the following criteria must be met:

1. complete a minimum of 45 semester hours;
2. attain a minimum institutional GPA of 2.5 on a 4.0 scale; and
3. earn a minimum cumulative GPA of 3.0 in

Code	Title	Hours
ACC 200	Survey of Accounting	3
NFA 121	Introduction to Food Composition and Preparation	3
NFA 201	Essentials of Nutrition	3
NFA 203	Introduction to Food and Nutrition Careers	1
NFA 317	Nutrition in the Life Cycle	3

or their equivalents if taken at another school, with a grade of C or better in each course.

In addition, a program application form, available through the Academic Advisor, must be submitted.

After admission to the Food and Nutrition program the student must meet the following criteria to receive a B.S. Degree:

1. attain a minimum institutional GPA of 2.5 on a 4.0 scale;
2. earn a "C" or better in all major core and concentration courses.

## Program Requirements

CIP Code: 19.0501

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT - Food and Nutrition majors will fulfill ACCT with the following. (These courses are included in the Major requirements totals)	
NFA 404	Human Nutrition II (Dietetics)	
NFA 499	Culinary Nutrition and Food Management Practicum (Culinary Nutrition and Food Management)	
<b>Major Requirements</b>		
<i>Core Courses</i>		
NFA 121	Introduction to Food Composition and Preparation	3
NFA 201	Essentials of Nutrition	3
NFA 203	Introduction to Food and Nutrition Careers	1
NFA 317	Nutrition in the Life Cycle	3
NFA 323	Experimental Foods	3
NFA 325	Quantity Food Production	3
NFA 326	Field Experiences in Quantity Food Production	3
NFA 344	Food Purchasing	3

NFA 349	Applied Learning in Nutrition, Foods, and Food Administration	1
NFA 411	Community Nutrition	3
NFA 445	Food Service Organization and Management	3
NFA 447	Food Culture and Systems	3

<b>Concentrations</b>	
Students must select one of the following Concentrations:	42
Dietetics	
Culinary Nutrition and Food Management	
<i>Supporting Course Requirements</i>	
Choose from 18-26 hours of supporting courses of the following:	
26 hours of Dietetics	
18 hours of Culinary Nutrition and Food Management	
<i>Free Electives</i>	
Choose from 1-9 hours of free electives	9
One hour of Dietetics	
Nine hours of Culinary Nutrition and Food Management	
<b>Total Hours</b>	<b>120</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
NFA 328	Food Preparation and Culinary Arts	3
NFA 420	Food in Health and Wellness	3
NFA 499	Culinary Nutrition and Food Management Practicum	3
BUS 204	Fundamentals of Business Law and Ethics	3
MGT 320	Human Resource Management	3
MGT 330	Small Business Management Innovation and Entrepreneurship	3
MKT 401	Digital Marketing	3
REC 480	Resort Recreation Management	3
<b>Supporting Course Requirements</b>		
ACC 200	Survey of Accounting	3
CIS 212	Introduction to Computer Information Systems	3
or INF 104	Computer Literacy with Software Applications	
EHS 380	Food Security and Sanitation	3
MGT 301	Principles of Management (NB)	3
MKT 301	Principles of Marketing (NB)	3
REC 280	Programming Special Events	3
<b>Total Hours</b>		<b>42</b>

## Food and Nutrition, Bachelor of Science with a Concentration in Dietetic (B.S.)

The Food and Nutrition program leads to a Bachelor of Science degree in Food and Nutrition. The Food and Nutrition program includes two concentrations: Dietetics and Culinary Nutrition and Food Management.

The Dietetics concentration is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), an agency of the Academy of Nutrition and Dietetics, as a Didactic Program in Nutrition and Dietetics (DPD). The concentration's mission, goals, and objectives can be found

on the Department of Applied Human Sciences website. Also available on the website is information about costs related to the program.

Students completing the DPD earn a Verification Statement, which provides eligibility to complete an accredited Dietetic Internship. Acceptance to a Dietetic Internship requires application and program matching through a competitive process. A strong academic record, work experience, and service/leadership in extracurricular activities are essential for obtaining a dietetic internship. Dietetic internships are 6 to 12 months long and include supervised practice in various areas of the dietetics profession. After completion of the internship, the student is eligible to take the national registration exam to become a Registered Dietitian Nutritionist (RDN). In most states, including Kentucky, RDN status is sufficient to obtain a state license to practice as a dietitian.

Registered Dietitian Nutritionists (RDN) work with individuals and groups of all ages to improve health and wellness. Dietitians find employment in a variety of professional settings, including hospitals, long term care facilities, outpatient clinics, health departments, food companies, wellness programs, public health and regulatory agencies, cooperative extension, food service (including hospital, long term care, school, college/university, and prisons), private practice, sales, and research. In these settings, RDNs provide medical nutrition therapy; menu planning; recipe and product development; individual counseling related to nutrition and diet; nutrition education to groups and individuals; community nutrition program development, implementation, and evaluation; and research.

Graduates who do not complete a dietetic internship find employment opportunities in public health, food service, cooperative extension, sales, and research. With the DPD verification statement, graduates are eligible to take the national Dietetic Technician registration exam, and earn the credential Dietetic Technician Registered (DTR). Graduates of the DPD may also seek admission to graduate programs to earn an advanced degree.

The Culinary Nutrition and Food Management concentration prepares students for employment in a variety of job positions and settings within the food industry. Some of these positions include food service manager, nutrition coordinator, and food program planner. Employment settings include restaurants, schools, hospitals, long-term care, agritourism, sustainability and local foods programs, food banks and feeding programs, hotels/resorts, cruises, amusement parks, and catered events such as weddings, banquets, and corporate marketing.

## Admission and Progression Requirements

All students who are accepted by EKU's Admissions Office and declare their major as food and nutrition are considered for admission to the University as pre-food and nutrition majors. To be admitted to the food and nutrition program the following criteria must be met:

1. complete a minimum of 45 semester hours;
2. attain a minimum institutional GPA of 2.5 on a 4.0 scale; and
3. earn a minimum cumulative GPA of 3.0 in

Code	Title	Hours
ACC 200	Survey of Accounting	3
NFA 121	Introduction to Food Composition and Preparation	3
NFA 201	Essentials of Nutrition	3

NFA 203	Introduction to Food and Nutrition Careers	1
NFA 317	Nutrition in the Life Cycle	3

or their equivalents if taken at another school with a grade of C or better in each course.

In addition, a program application form, available through the Academic Advisor, must be submitted.

After admission to the Food and Nutrition program the student must meet the following criteria to receive a B.S. Degree:

1. attain a minimum institutional GPA of 2.5 on a 4.0 scale;
2. earn a "C" or better in all major core and concentration courses.

## Program Requirements

CIP Code: 19.0501

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Food and Nutrition majors will fulfill ACCT with the following. (These courses are included in the Major requirements totals)		
NFA 404	Human Nutrition II (Dietetics)	

NFA 499 Culinary Nutrition and Food Management Practicum (Culinary Nutrition and Food Management)

### Major Requirements

#### Core Courses

NFA 121	Introduction to Food Composition and Preparation	3
NFA 201	Essentials of Nutrition	3
NFA 203	Introduction to Food and Nutrition Careers	1
NFA 317	Nutrition in the Life Cycle	3
NFA 323	Experimental Foods	3
NFA 325	Quantity Food Production	3
NFA 326	Field Experiences in Quantity Food Production	3
NFA 344	Food Purchasing	3
NFA 349	Applied Learning in Nutrition, Foods, and Food Administration	1
NFA 411	Community Nutrition	3
NFA 445	Food Service Organization and Management	3
NFA 447	Food Culture and Systems	3

### Concentrations

Students must select one of the following Concentrations: 48

#### Dietetics

Culinary Nutrition and Food Management

#### Supporting Course Requirements

Choose from 18-26 hours of supporting courses

26 hours of Dietetics

18 hours of Culinary Nutrition and Food Management

#### Free Electives

Choose from 3 hours of free electives 3

One hour of Dietetics

Nine hours of Culinary Nutrition and Food Management

**Total Hours 120**

### Concentration

Code	Title	Hours
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#### Concentration Courses

NFA 301	Bio Nutrition	3
NFA 303	Nutrition Education and Counseling	3
NFA 310	Junior Seminar	3
NFA 401	Human Nutrition	3
NFA 402	Medical Nutrition Therapy	3
NFA 403	Medical Nutrition Therapy II	3
NFA 404	Human Nutrition II	3
NFA 412W	Research Application in Nutrition	3

#### Supporting Course Requirements

ACC 200	Survey of Accounting	3
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
CDF 132	Introduction to the Family	3
or SOC 131	Introductory Sociology	

Choose from one of the following:

CHE 101 & 101L Introductory Chemistry and Introductory Chemistry Lab (Element 4)<sup>G</sup>

CHE 102 & 102L Introductory Chemistry II and Introductory Chemistry Lab II

CIS 212 or INF 104 Introduction to Computer Information Systems Computer Literacy with Software Applications

EHS 380	Food Security and Sanitation	3
HSA 200	Medical Terminology	3
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	3
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	3
<b>Total Hours</b>		<b>48</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Food and Nutrition, Minor

### Program Requirements

Code	Title	Hours
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#### Required Courses

NFA 121	Introduction to Food Composition and Preparation	3
NFA 201	Essentials of Nutrition	3

Choose from 12 hours of the following: 12

NFA 301	Bio Nutrition
NFA 303	Nutrition Education and Counseling
NFA 317	Nutrition in the Life Cycle
NFA 323	Experimental Foods
NFA 325	Quantity Food Production
NFA 326	Field Experiences in Quantity Food Production
NFA 328	Food Preparation and Culinary Arts
NFA 344	Food Purchasing
NFA 401	Human Nutrition
NFA 402	Medical Nutrition Therapy
NFA 403	Medical Nutrition Therapy II
NFA 404	Human Nutrition II
NFA 411	Community Nutrition
NFA 420	Food in Health and Wellness
NFA 447	Food Culture and Systems

**Total Hours 18**

## Gastronomic Tourism, Certificate

This certificate includes 15 hours of required courses and 9 hours of electives. This program is available online only and includes content that will enhance practical knowledge in hospitality and tourism industries. This Certificate is for students interested in continuing their knowledge in food and drink tourism.

### Program Requirements

Code	Title	Hours
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#### Required Courses

GTO 210	Gastronomic Tourism	3
GTO 320	Bourbon, Beer & Spirits	3
GTO 325	Culture & Consumption of Wine	3
GTO 410	Gastronomic Tour Development	3

NFA 447	Food Culture and Systems	3
Choose from nine hours of the following:		9
GHT 201	Hospitality & Tourism Essentia	
GHT 310	Be Our Guest	
GHT 320	Impact of Hospitality	
GHT 425W	Hospitality & Tourism Analysis	
GHT 450	Global Hospitality Law	
SHO 341	Sustainable Hospitality	
SHO 410	Multigenerational Programming	
SHO 420	Sustainable Global Practices	
SHO 460	Universal Sustainable Design	
SHO 475	Promoting Hospitable Exp	
<b>Total Hours</b>		<b>24</b>

## Global Hospitality and Tourism, Bachelor of Science with a Concentration in Gastronomic Tourism (B.S.)

The Global Hospitality and Tourism program is offered 100% on-line through e-Campus. The major in Global Hospitality and Tourism prepares the student for careers in hotel management, ecotourism, food tourism, resorts, winery/microbrewery tours, and other hospitality or tourism industries.

The Global Hospitality and Tourism major provides an applied educational experience that will prepare the student for a career in the evolving field of hospitality and tourism. The students receive practical and technical knowledge to secure employment within the industry locally, regionally, nationally, or globally.

All students will choose a concentration to narrow their focus of interest: Gastronomic Tourism or Sustainable Hospitality. A practicum experience is required for all students to provide the necessary experience to be a successful professional in the field. Students majoring in Global Hospitality and Tourism must achieve a grade of "C"/2.0 or better in all core, concentration, and supporting courses.

## Program Requirements

CIP Code: 52.0901

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		

A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSD 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Global Hospitality and Tourism majors will fulfill ACCT with the following. (These courses are included in the Major totals)		
GHT 499	Hospitality & Tourism Practic	

### Major Requirements

<i>Core Courses</i>		
GHT 201	Hospitality & Tourism Essentia	3
GHT 310	Be Our Guest	3
GHT 320	Impact of Hospitality	3
GHT 425W	Hospitality & Tourism Analysis	3
GHT 450	Global Hospitality Law	3
GHT 499	Hospitality & Tourism Practic	3
EHS 230	Recreational Health	3
REC 401	Management of Recreation Services	3

### Concentrations

Students must select one of the following Concentrations:		15
Gastronomic Tourism		
Sustainable Hospitality		
<i>Supporting Course Requirements (both concentrations)</i>		
GBU 201	International Business	3
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
HLS 260	Disaster Preparedness & Response	3
MGT 301	Principles of Management (NB)	3
MKT 301	Principles of Marketing (NB)	3
POL 376	Public Human Resources	3
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
	or SOC 232 Social Statistics	

### Free Electives

Choose from 29 hours of free electives		29
<b>Total Hours</b>		<b>120</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
GTO 210	Gastronomic Tourism	3
GTO 320	Bourbon, Beer & Spirits	3
GTO 325	Culture & Consumption of Wine	3
GTO 410	Gastronomic Tour Development	3
NFA 447	Food Culture and Systems	3
<b>Total Hours</b>		<b>15</b>

# Global Hospitality and Tourism, Bachelor of Science with a Concentration in Sustainable Hospitality (B.S.)

The Global Hospitality and Tourism program is offered 100% on-line through e-Campus. The major in Global Hospitality and Tourism prepares the student for careers in hotel management, ecotourism, food tourism, resorts, winery/microbrewery tours, and other hospitality or tourism industries.

The Global Hospitality and Tourism major provides an applied educational experience that will prepare the student for a career in the evolving field of hospitality and tourism. The students receive practical and technical knowledge to secure employment within the industry locally, regionally, nationally, or globally.

All students will choose a concentration to narrow their focus of interest: Gastronomic Tourism or Sustainable Hospitality. A practicum experience is required for all students to provide the necessary experience to be a successful professional in the field. Students majoring in Global Hospitality and Tourism must achieve a grade of "C"/2.0 or better in all core, concentration, and supporting courses.

## Program Requirements

CIP Code: 52.0901

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		

General Education	36
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### Student Success Seminar

HSA 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Global Hospitality and Tourism majors will fulfill ACCT with the following. (These courses are included in the Major totals)

GHT 499	Hospitality & Tourism Practic	
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### Major Requirements

#### Core Courses

GHT 201	Hospitality & Tourism Essentia	3
GHT 310	Be Our Guest	3
GHT 320	Impact of Hospitality	3
GHT 425W	Hospitality & Tourism Analysis	3
GHT 450	Global Hospitality Law	3
GHT 499	Hospitality & Tourism Practic	3
EHS 230	Recreational Health	3
REC 401	Management of Recreation Services	3

### Concentrations

Students must select one of the following Concentrations: 15

Gastronomic Tourism

Sustainable Hospitality

### Supporting Course Requirements (both concentrations)

GBU 201	International Business	3
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
HLS 260	Disaster Preparedness & Response	3
MGT 301	Principles of Management (NB)	3
MKT 301	Principles of Marketing (NB)	3
POL 376	Public Human Resources	3
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
	or SOC 232 Social Statistics	

### Free Electives

Choose from 29 hours of free electives 29

<b>Total Hours</b>	<b>120</b>
--------------------	------------

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
SHO 341	Sustainable Hospitality	3

SHO 410	Multigenerational Programming	3
SHO 420	Sustainable Global Practices	3
SHO 460	Universal Sustainable Design	3
SHO 475	Promoting Hospitable Exp	3
<b>Total Hours</b>		<b>15</b>

## Infant/Toddler Care & Education, Certificate

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
CDF 203	Philosophical & Historical Foundations of the EC Profession	3
CDF 235	Child Development: Conception-Eight Years	3
CDF 236	Interaction and Guidance	3
CDF 310	Observation and Assessment in ECE <sup>1</sup>	3
CDF 327S	Family Involvement with Young Children <sup>1</sup>	3
CDF 405	Prog Plan for Infant & Toddler <sup>1</sup>	3
CDF 501	Prenatal and Infant Development	3
or CDF 541	Infant- Toddler Development and Group Care	
<b>Total Hours</b>		<b>21</b>

1

Course may have pre-requisite or co-requisite

## Sustainable Hospitality, Certificate

This certificate includes 15 hours of required courses and 9 hours of electives. This program is available online only and includes content that will enhance practical knowledge in hospitality and tourism industries.

This Certificate is for students interested in continuing their knowledge in sustainable global practices in hospitality and tourism.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
SHO 341	Sustainable Hospitality	3
SHO 410	Multigenerational Programming	3
SHO 420	Sustainable Global Practices	3
SHO 460	Universal Sustainable Design	3
SHO 475	Promoting Hospitable Exp	3
Choose from nine hours of the following:		9
GHT 201	Hospitality & Tourism Essentia	
GHT 310	Be Our Guest	
GHT 320	Impact of Hospitality	
GHT 425W	Hospitality & Tourism Analysis	
GHT 450	Global Hospitality Law	
GTO 210	Gastronomic Tourism	
GTO 320	Bourbon, Beer & Spirits	
GTO 325	Culture & Consumption of Wine	
GTO 410	Gastronomic Tour Development	

NFA 447	Food Culture and Systems	
<b>Total Hours</b>		<b>24</b>

## Department of Clinical Therapeutic Programs

### Chair

Dr. Kellie Ellis, Chair  
(859) 622-1125  
Wallace 245

### Faculty

M. Bane, K. Ellis, K. Engebretson, C. Hughes, M. Jeon, J. McGinn, J. Robinson, G. Sandman, C. Sommer, A. Spiers, and R. Wahl.

The Department of Clinical Therapeutic Programs offers undergraduate and graduate degrees in Communication Disorders and graduate degrees in Clinical Mental Health Counseling and School Counseling. The Master of Arts in Communication Disorders is a two-year, full-time program leading to eligibility for certification/licensure in Speech-Language Pathology by the American Speech-Language-Hearing Association and Kentucky Board of Speech-Language Pathology. More complete information concerning the graduate program can be reviewed by accessing the Department website at <https://www.cd.eku.edu>.

### Bachelor's

- Communication Disorders, Bachelor of Science (B.S.) (p. 163)

### Courses

#### CSD 250. Phonetics. (3 Credits)

I. Formerly CDS 250. Prerequisite: admission to CDS program. Study of the articulatory postures and movements used to produce standard English and defective sounds. Introduction of the International Phonetic Alphabet and practice in using it to transcribe both normal and defective speech.

#### CSD 273. Observation in Comm. Disorders. (1 Credit)

II. Formerly CDS 273. Prerequisite: admission to CDS program. Supervised clinical observation of therapy and/or diagnostic services for individuals with communication disorders. Instruction in report writing and observing in various settings. Students must complete 25 clock hours of observation by the end of this semester.

#### CSD 275. Intro Communication Disorders. (3 Credits)

I. Formerly CDS 275. Introduction to the nature and causes of speech, language, and hearing disorders. An overview of the field of communication disorders and sciences.

#### CSD 285. Anat. & Phys. Sp. Hearing Mech. (3 Credits)

I. Formerly CDS 285. Prerequisite: admission to CDS program. Introduction to the anatomical and physiological bases of hearing, respiration, phonation, resonance, and articulation.

#### CSD 311. CSD in Health Care Systems. (3 Credits)

I, II. Review of the wellness-illness spectrum and the societal response in terms of health services. Topics to be covered include the nature and functions of health services agencies and professionals, and the impact of social, political, economic, regulatory, and technological forces. Also includes a discussion of major health problems and related health care programs.

**CSD 360. Normal Speech & Lang. Dev.. (3 Credits)**

II. Formerly CDS 360. Normal speech and language acquisition from birth through the developmental years; basic linguistic concepts and theories; language differences.

**CSD 365. Language Disorders: Assessment. (3 Credits)**

I. Formerly CDS 365. Prerequisite: admission to the CDS program. Prerequisite/Corequisite: CDS 360. Methods of assessing language content/form/use. Assessment techniques will include standardized tests, language sampling and analysis, and observational techniques and scales.

**CSD 372. Methods & Materials Comm. Dis.. (3 Credits)**

II. Formerly CDS 372. Prerequisite: admission to the CDS program. Overview of scope of practice and credentials for service delivery; management of therapy sessions; clinical policies and procedures; Code of Ethics; precautions for infectious disease control; development of therapy materials and oral mechanism examination kit.

**CSD 373. Articulation & Phon. Disorders. (3 Credits)**

II. Formerly CDS 373. Prerequisite: admission to the CDS program. Characteristics of articulation and phonological problems. Principles of identification and treatment.

**CSD 374. Practicum in Speech Pathology. (3 Credits)**

I. Formerly CDS 374. Prerequisites: 25 hours of observation in communication disorders and sciences, CDS 372 and 373, and overall 3.0 GPA, or Clinic Director approval. Supervised clinical practicum in communication disorders services. May be retaken to a maximum of six credit hours.

**CSD 380. Intro to Clinical Audiology. (3 Credits)**

I, II. Formerly CDS 380. Prerequisite: admission to CDS program. Physics of sound, anatomy & physiology of hearing, auditory pathologies, and introduction of basic audiological assessment.

**CSD 464. Lang. Disorders: Intervention. (3 Credits)**

II. Formerly CDS 464. Prerequisites: CDS 360 and 365. Study of language impairment in children and principles for remediation.

**CSD 465. Disorders of Fluency. (3 Credits)**

I. Formerly CDS 465. Prerequisite: admission to the CDS program. Lectures and selected readings in the theoretical, etiological, and developmental views of assessment and management of stuttering problems in children.

**CSD 474. Adv Practicum in Speech Path. (3 Credits)**

II. Formerly CSD 474. Prerequisites: Overall 3.0 GPA and CDS 374, or Clinic Director approval. Advanced supervised clinical practice in communication disorders services. May be retaken to a maximum of six credit hours.

**CSD 475. Voice Disorders. (3 Credits)**

I. Formerly CDS 475. Prerequisite: admission to the CDS program. Lectures and selected readings in etiological perspectives of functional and organic voices disorders; assessment, classification, and treatment designs for vocal pathologies in children.

**CSD 485. Audiologic Evaluation. (3 Credits)**

II. Formerly CDS 485. Prerequisite: CDS 380. Fundamentals of audiometric assessment, immittance measurement, and electrophysiology via lecture and integrated lab simulations. Techniques for audiometric data collection, interpretation, and reporting. Lec/Lab.

**CSD 487. Aural Rehabilitation. (3 Credits)**

I. Formerly 487. Prerequisite: CDS 380 or departmental approval. Fundamentals of aural habilitation/rehabilitation in the form of amplification (hearing aids, cochlear implants, assistive listening devices), speech reading, auditory-visual-kinesthetic perception, pediatric rehab techniques, educational management, counseling.

**CSD 488. Practicum in Audiology. (1 Credit)**

I, II. Formerly CDS 488. Prerequisites: Overall 3.0 GPA or Clinic Director approval. Supervised clinical practice in audiology. May be retaken to a maximum of two credit hours.

**CSD 520. Augment & Alterna Comm Systems. (3 Credits)**

A. An overview of various approaches to aided non-oral systems of communication. Various devices and symbol systems will be discussed.

**CSD 525. Literate Language. (3 Credits)**

I. Formerly CDS 525. Prerequisites: CDS 360, CDS 365, and CDS 464 or departmental approval. Study of language disorders in children and principles for remediation in written language.

**CSD 541. School Services in Comm Dis. (3 Credits)**

II. Formerly CDS 541. Prerequisites: Overall 3.0 GPA and Admission to the CDS program, or departmental approval. Organization and management of speech-language therapy services in the schools. Lec/Lab.

**CSD 571W. Neural Bases of Communication. (3 Credits)**

A. Prerequisite: Admission to the CDS program or instructor approval and ENG 102 or ENG 105(B) or HON 102. A study of neuroanatomic and neurophysiologic bases of communication including developmental issues and neurologic deficits resulting in communication disorders. Credit will not be awarded for both CDS 571W and CDS 571.

**CSD 572. Speech & Hearing Science. (3 Credits)**

II. Formerly CDS 572. Study of the physics of sound, acoustic characteristics and processes, perceptual correlates, production of speech, and psychophysical processes of communication.

## Communication Disorders, Bachelor of Science (B.S.)

### Admission to Communication Disorders Program

Any student who is accepted by Eastern Kentucky University's Admissions Office may declare their major as Pre-communication disorders. The student will be assigned to a program advisor and will be classified as a "Pre-CD" major. However, a Pre-CD status does not guarantee admission into the CD undergraduate program. Pre-CD majors will be restricted to enrollment in the following major CSD courses: CSD 275 Intro Communication Disorders and CSD 360 Normal Speech & Lang. Dev..

To apply for admission to the CD undergraduate program, students must meet the following minimum criteria:

1. at least 40 credit hours earned on 100-level courses or higher,
2. at least a 3.0 GPA on a 4.0 scale,
3. at least a 21 composite score on the ACT or equivalent SAT Score, and
4. pass a speech/language/hearing screening.

The CD Program requires a state criminal history background check approved<sup>1</sup> by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national

criminal background check may be required as a condition of admission. Once admitted to the CD program, the student must earn a grade of "C" or higher in CSD 275 Intro Communication Disorders or equivalent transferred course before registering for any CSD courses in the major requirements. Once admitted to the CD program, students must earn a grade of "C" or higher in all CSD courses and supporting courses. Transfer students do not have to be enrolled in university courses at the time of submitting an application for admission. The CD program admits 30 new undergraduate students each year. Applicants are ranked by the GPA x ACT composite score. The most qualified applicants are admitted. Application forms are available at [cd.eku.edu](http://cd.eku.edu) (<http://cd.eku.edu>). Completed applications and all required documentation must be submitted by February 14.

It should be noted that enrollment in the graduate program in Communication Disorders is also limited. Admission into the undergraduate program does not guarantee admission into the graduate program. Refer to the *Graduate Catalog* for information on admission to the graduate program.

An additional state criminal background check approved<sup>1</sup> by the College of Education and Applied Human Sciences is required prior to beginning CSD 374 Practicum in Speech Pathology or may be required at additional points in the program. Under certain circumstances, a national criminal background check may be required prior to beginning CSD 374 Practicum in Speech Pathology. Students must purchase professional liability insurance prior to enrollment in CSD 374 Practicum in Speech Pathology, CSD 474 Adv Practicum in Speech Path, and CSD 541 School Services in Comm Dis. Further, that insurance coverage must be maintained throughout enrollment in these courses.

1

"Approved" is a formal review process of the criminal records report. Any misrepresentation of facts, by omission or addition, may result in the denial of admission to the Communication Disorders Program or enrollment in CSD 374 Practicum in Speech Pathology.

## Program Requirements

CIP Code: 51.0204

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
EDO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Communication Disorders majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
CSD 475	Voice Disorders	

<b>Major Requirements</b>		
<i>Core Courses</i>		
CSD 250	Phonetics	3
CSD 273	Observation in Comm. Disorders	1
CSD 275	Intro Communication Disorders	3
CSD 285	Anat. & Phys. Sp. Hearing Mech	3
CSD 311	CSD in Health Care Systems	3
CSD 360	Normal Speech & Lang. Dev.	3
CSD 365	Language Disorders: Assessment	3
CSD 372	Methods & Materials Comm. Dis.	3
CSD 373	Articulation & Phon. Disorders	3
CSD 374	Practicum in Speech Pathology <sup>1</sup>	3
CSD 380	Intro to Clinical Audiology	3
CSD 464	Lang. Disorders: Intervention	3
CSD 465	Disorders of Fluency	3
CSD 474	Adv Practicum in Speech Path <sup>1</sup>	3
CSD 475	Voice Disorders	3
CSD 487	Aural Rehabilitation	3
CSD 525	Literate Language	3
CSD 541	School Services in Comm Dis	3
CSD 571W	Neural Bases of Communication	3
CSD 572	Speech & Hearing Science	3

ACCT - Communication Disorders majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

<i>Supporting Course Requirements</i>		
Choose from 12-30 hours of the following:		12-30
ASL 101	American Sign Language I (Element 6) <sup>G</sup>	
BIO 307	Human Anatomy and Physiology I	
BIO 308	Human Anatomy and Physiology II	
OTS 515	Early Child Sensorimotor Development	
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
SED 390	Applied Behavior Analysis	
or PSY 406	Intro to Behavior Therapy	
SED 318	Special Education in Early Childhood	
Choose from one of the following:		

ENG 410	Grammar, Traditional and Modern	
ENG 510	Introduction to Linguistic Theory	
ENG 520	History of the English Language	
Choose from one of the following:		
PSY 200	Introduction to Psychology	
PSY 200W	Introduction to Psychology: Writing Intensive	
PSY 280	Lifespan Developmental Psych.	
PSY 280W	Lifespan Developmental Psychology: Writing Intensive (Element 5B) <sup>G</sup>	
Choose from one of the following:		
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
STA 270	Applied Statistics (Element 2) <sup>G</sup>	
STA 500		
<i>Free Electives</i>		
Choose from 13 hours of free electives		13
<i>Exit Requirements</i>		
Exit Requirements		0
<b>Total Hours</b>		<b>120-138</b>

1

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**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Department of Teaching, Learning, and Educational Leadership

### Chair

Dr. Nicola Mason, Chair  
(859) 622-2154  
Bert Combs 215

### Faculty

A. Blakely, A. Burns, R. Cleveland, R. Day, M. Grempe, C. Hodge, T. Jansky, S. Korson, M.J. Krile, R. Lauk, M. Manning, N. Mason, T. McCardle, J-M. Miller, J. Miller, J. Park, P. Petrilli, B. Phillips, J. Rutland, W. Thornburgh, S. Townsend, R. Turner, A. Yaylai, K Yi, S. Yow, and E. Zuccaro

### Bachelor's

- Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Agriculture Education (B.S.) (p. 172)
- Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Engineering/Technology Education (B.S.) (p. 174)
- Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Occupational Training and Development (B.S.) (p. 175)
- Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Technical Education (B.S.) (p. 176)
- Education of the Deaf and Hard of Hearing (P-12), Bachelor of Science with a Concentration in Elementary Education (P-5) (B.S.) (p. 178)

- Education of the Deaf and Hard of Hearing (P-12), Bachelor of Science with a Concentration in Middle Grade Education (5-9) (B.S.) (p. 179)
- Elementary Education (P-5) Teaching, Bachelor of Science (B.S.) (p. 181)
- Middle Grade Education (5-9) Teaching, Bachelor of Science (B.S.) (p. 182)
- Special Education/Teaching, Bachelor of Science with a Concentration in LBD-Elementary (B.S.) (p. 185)
- Special Education/Teaching, Bachelor of Science with a Concentration in LBD-Middle Grade Education (5-9) (B.S.) (p. 186)

### Associate's

- Career and Technical Education (Teaching), Associate of Applied Science (A.A.S.) (p. 171)

### Minor

- Special Education (Non-Teaching), Minor (p. 185)

## Courses

### Career and Technical Education

#### CTE 164. Orientation to Career and Technical Education. (3 Credits)

A. Instruction to new technical teachers in areas of principles of instruction, lesson planning, oral instruction, instructional media, demonstrations, evaluation and follow-up. Satisfactory-unsatisfactory grading.

#### CTE 204. Related Sci Math & Tech: Occ I. (3 Credits)

Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

#### CTE 205. Manipulative Skills: Occ I. (3 Credits)

A. Offered only through technical competence examination; applicant must be eligible for vocational/technical teaching certificate.

#### CTE 206. Related Knowledge: Occ I. (3 Credits)

A. Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

#### CTE 261. Foundations of Career and Technical Education. (3 Credits)

A. For in-service career and technical teachers. A study of the historical, philosophical, economical, sociological, and psychological foundations of career and technical education related to elementary, secondary, and post-secondary education. Credit will not be awarded for both CTE 261 and 262.

#### CTE 262. Foundations of Career and Technical Education (Pre-Service). (3 Credits)

A. Co-Requisite: EDF 310 (1)-Enrollment in a late term section is preferred. For pre-service career and technical teachers. A study of the historical, philosophical, economical, sociological, and psychological foundations of career and technical education related to elementary, secondary, and post-secondary education. Credit will not be awarded for both CTE 262 and 261.

#### CTE 302. New Developments in Industry. (1-6 Credits)

A. Concurrent enrollment in approved industry sponsored course. One hour credit for each week of enrollment (minimum of 20 class hours per week). Student required to present proof of completion and to develop a teaching unit on the new development. May be retaken provided the industry sponsored school is different. Graded on a satisfactory-unsatisfactory basis. Only in-service vocational education teachers may enroll.

**CTE 303. Career and Technical Education Staff Exchange. (2-9 Credits)**

A. Prerequisite: departmental approval. For in-service career and technical teachers enrolled in an approved staff exchange program designed to update technical skills and knowledge in an occupational setting. Assignments include verifying contact hours, site visit, narrative summary, and lesson development. First week of exchange is equal to two semester hours of credit with one additional hour of credit for each additional week. Satisfactory-unsatisfactory grading.

**CTE 304. Rel Sci Math & Tech in Occ. (3 Credits)**

A. Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 305. Manipul Skills Occupation II. (3 Credits)**

A. Offered only through technical competence examination; applicant must be eligible for vocational/ technical teaching certificate.

**CTE 306. Related Knowledge: Occ II. (3 Credits)**

A. Offered only through written examinations; applicant must be eligible for vocational/technical teaching certificate.

**CTE 361. Course Materials in Career and Technical Education. (3 Credits)**

A. The preparation of instructional materials and instructional techniques, including the development and use of instructional media. The content will include the development of curricula at appropriate levels of education and appropriate laboratory activities.

**CTE 363. Evaluation in Career and Technical Education. (3 Credits)**

A. Methods of evaluation, preparation of measuring devices; methods of assessing technical competency; interpretation of standardized test results; statistical analysis of test data and the improvement of instruction.

**CTE 364. Methods in Career and Technical Education. (3 Credits)**

A. Presentation and application of instructional materials, methods, techniques, and devices relevant to teaching technical subjects.

**CTE 463. Practicum in Career and Technical Education. (4-12 Credits)**

A. Prerequisites: CTE 361, 363, 364. Observation, participation and supervised teaching in vocational and technical education. Includes experiences in lesson planning, classroom management, record keeping, development and use of instructional materials and directed teaching in approved centers. Students are graded on a satisfactory-unsatisfactory basis.

**College of Education****CED 100. Clinical I: Introduction to the Education Profession. (0 Credits)**

I, II. Corequisite: EDF 203. Guided laboratory-based experiences emphasizing the identification and assessment of the roles and responsibilities of teachers and other education professionals and components of the education system. (Laboratory-based clinical experience- a minimum of 10 hours is required; additional hours may be required based upon candidate performance).

**CED 150. Clinical Transition: Education Profession. (0.5 Credits)**

Corequisite: EDF 310. Guided laboratory-based experiences emphasizing the education profession. (laboratory-based clinical experience - a minimum of 10 hours is required; additional hours may be required based upon candidate performance.)

**CED 200. Clinical II: Understanding the Learner. (0 Credits)**

I, II. Prerequisites: EDF 203(C) or 310(C); CED 100 or 150 (grade of B or higher). Corequisites: EDF 219; or CDF 235 for IECE majors. Guided laboratory-based experiences emphasizing the assessment and analysis of student learning and engagement and the school environment from varied learning theory perspectives, (laboratory-based clinical experience - a minimum of 20 hours is required; additional hours may be required based upon candidate performance).

**CED 300. Clinical III: Curriculum and Instructional Design. (0.5 Credits)**

I, II. Prerequisite CED 200 and admission to professional education. Co-requisite: EMS300 or 300W. Guided school-embedded experiences that emphasize impacting student growth through well-planned and aligned instructional units and lessons, (school-embedded clinical experience - a minimum of 45 hours is required; additional hours may be required based upon candidate performance). Must earn B or higher for professional education.

**CED 350. Integrated Clinical Experiences. (0.5 Credits)**

(.5). I, II. Prerequisite: admission to professional education, CED 300 (B). Co-requisite: EMS 300, EMS 300W, EDC 300, EDF 413, EMS 490, SED 350, SED 390, or SED 510. Integrated school-embedded experiences that emphasize skills and performances related to the content of professional core course. Successful completion of the clinical experiences and course expectation is required for candidates to progress in their teaching programs. CED 350 may be retaken for up to 1 full credit hour. Must earn a grade of B or higher for professional education.

**CED 375. Clinical V: Practicing Teaching. (1 Credit)**

Prerequisite: Admission to Professional Education or Dean approval. Corequisite: CED 450. Supervised, sustained practice teaching experiences in an assigned instructional setting. Experiences include individual, small group and whole class teaching opportunities. (school-embedded clinical experience - a minimum of 40 hours is required; additional hours may be required based on candidate performance).

**CED 400. Clinical IV: Diagnosis and Prescription. (0.5 Credits)**

I, II. Prerequisite: CED 300 (B or higher) and admission to professional education or Dean approval. Corequisites: EDF 413 and EMS 490; or SED 352 and SED 590 for IECE majors. Guided school-embedded experiences emphasizing the development, implementation, interpretation and reporting of a variety of assessment tools for learners, the classroom and school environment and the subsequent design of instruction. (School-embedded clinical experience- a minimum of 50 hours is required; additional hours may be required based upon candidate performance). Must earn a B or higher for Professional Education.

**CED 450. Clinical V: Practicing Teaching. (1 Credit)**

I, II. Prerequisite: CED 400 (B or higher) and admission to professional education or Dean approval. Corequisite: ELE 446, 446W, or EMG 447, or ESE 540, 543, 549, 550, 552, 553, 561, 556, 573, 579, 587, or SED 436 or IECE major. Supervised, sustained practice teaching experiences in an assigned instructional setting. Experiences include individual, small group and whole class teaching opportunities. (School-embedded clinical experience- a minimum of 80 hours is required; additional hours may be required based upon candidate performance). Must earn "B" or higher for Professional Education.

**CED 499. Clinical VI: The Professional Semester. (3-12 Credits)**

Prerequisites: CED 450 (B or higher) and admission to the professional semester. Full-time assignment in an accredited school to observe, participate, and teach in classroom settings with special emphasis on the impact of instruction on student learning. (School embedded clinical experience - a minimum of 70 days is required). CED 499 may only be taken with one additional course.

**CED 499I. Clinical VI: The Professional Semester- International. (1-12 Credits)**

I, II. Prerequisite: CED 450 and Admission to the Professional Semester, and application to student teach abroad with committee recommendation to the College of Education Dean for approval. Must successfully complete all pre-student teaching abroad seminars and requirements. Must demonstrate above average knowledge, skills and dispositions of a professional teacher prior to CED 499I. Overall EKU GPA must be 3.0 or above. Part-time assignment for four weeks in an EKU approved international school to observe, participate, and teach in classroom settings with special emphasis on the impact of instruction on student learning (school-embedded clinical experience – a minimum of 70 total days is required will be a combination of CED 499 and 499I).

**Early Elementary Education****ELE 101. Creative Thinking Through Performance Arts. (3 Credits)**

I,II. Study of Elementary Music and Movement activities/techniques. Perform, reflect, and implement essential age-appropriate musical instruction that highlights the importance of creative music making and the integration of the performing arts in other content areas.

**ELE 102. Creative Thinking Through Visual Arts. (3 Credits)**

I, II. Study of elementary art and media techniques. Create, reflect and implement essential age-appropriate art instruction that highlights the importance of art making and the integration of the visual and media arts in other content areas.

**ELE 201. Practical Living. (3 Credits)**

Elementary and dual certification (LBD + ELE or DHH + ELE) majors only. Explore personal wellness, nutrition, safety, psychomotor skills, and lifetime wellness for the elementary grades. Fulfills University Wellness Requirement.

**ELE 301. Mathematics Foundations P-5. (3 Credits)**

Prerequisite: Admission to professional education, MAT 107 with a minimum grade of "C". An overview of the mathematics state standards for teaching mathematics in grades K-5, and theories and research to teaching and learning mathematics. Minimum of ten field hours are required.

**ELE 302. Language Arts Foundations Grades P-5. (3 Credits)**

Prerequisite: Admission to professional education. An overview of the language arts, content and state standards for teaching the language arts, and theories and research related to teaching and learning the language arts. A minimum of 10 field hours are required.

**ELE 303. Classroom Music Methods. (2 Credits)**

(2). I. Cross-listed with MUE 302. Prerequisite: Admission to professional education. Corequisite: CED 300. Development of pedagogical skills and methods for teaching music concepts within the framework of a classroom music setting. Credit will not be awarded for both MUE 302 and ELE 303.

**ELE 314. Science Content, Pedagogy, and Assessment: Physical Sciences. (1 Credit)**

Prerequisite: Admission to professional education. Corequisite: CHE 100/PHY 102. Inquiry-based course focusing on content, pedagogy, assessment and materials for teaching physical science concepts in primary through grade five.

**ELE 322. Physical Education in the Elementary School. (2 Credits)**

I, II. Prerequisite: EDF 203 with a C or higher or EDF 310 with an S; Admission to Professional Education. Students who transfer the equivalent of EDF 203 must take EDF 310 as a pre-req or co-req. The study of the role of movement for the elementary school child; philosophy, principles, purposes, and programs of elementary physical education. Educational dance, educational gymnastics, and educational games are emphasized.

**ELE 361. Art in the Elementary Grades P-5. (3 Credits)**

I, II. Prerequisite: EDF 203 with a C or higher or EDF 310 with an S; Admission to Professional Education. Fundamental concepts of art education and those found in KERA. Exploration of art materials, processes, and activities for children in the elementary grades including those with special needs. Ten field/ clinical hours.

**ELE 362. Music Education for the Classroom Teacher. (3 Credits)**

I, II. Prerequisite: EDF 203 with a C or higher or EDF 310 with an S; Admission to Professional Education. Study and appraisal of teaching techniques, music literature, learning activities, curricular plans, and materials essential to the sequential development of musical learning in the elementary school. Ten field/clinical hours.

**ELE 365. Health Education P-5. (2 Credits)**

I, II. Prerequisite: EDF 203 with a C or higher or EDF 310 with an S; Admission to Professional Education. A study of curriculum design, teaching/learning strategies, resources, and evaluation procedures in elementary school health education. Topics include drugs, mental health, family living, nutrition, fitness, consumerism, environment, disease, and personal health. Ten field/clinical hours.

**ELE 401. Math Content, Pedagogy, & Assessment Grades 2-3. (3 Credits)**

Prerequisites: MAT 112 with a minimum grade of "C"; Admission to professional education. An examination of Mathematics for primary grades 2-3 and relevant standards, instructional practices, and assessments for learners at this developmental stage. Minimum of ten field hours are required.

**ELE 402. Language Arts Content, Pedagogy, and Assessment Grades 2-3. (3 Credits)**

Prerequisite: ELE 302 with a minimum grade of "C"; admission to professional education. An examination of beginning literacy and relevant content, standards, instructional practices, and assessments for learners at this development stage. A minimum of 10 field hours are required.

**ELE 403. Social Studies Content, Pedagogy, and Assessment: US History, Government, and Civics. (3 Credits)**

Prerequisite: Admission to professional education. An examination of relevant content, state academic standards, instructional practices, and assessments for US history government and civics for elementary P-5.

**ELE 404. Science Content, Pedagogy, and Assessment: Earth and Space Sciences. (1 Credit)**

Prerequisite: Admission to professional education. Corequisite: GLY 102. Inquiry-based course focusing on content, pedagogy, assessment, and materials for teaching earth and space science concepts in primary through grade five.

**ELE 411. Math Content, Pedagogy, & Assessment Grades 4-6. (3 Credits)**

Prerequisite: MAT 112 with a minimum grade of "C"; Admission to professional education. An examination of Mathematics for grades 4-6 and relevant standards, instructional practices, and assessments for learners at this developmental stage. Minimum of ten field hours are required.

**ELE 412. Language Arts Content, Pedagogy, and Assessment Grades 4-6. (3 Credits)**

Prerequisite: ELE 302 with a minimum grade of "C"; admission to professional education. An examination of fluent literacy and relevant content, standards, instructional practices, and assessments for learners at this development stage. A minimum of 10 field hours are required.

**ELE 420. Creative Thinking Lab. (1 Credit)**

I, II. Co-requisite: CED 450. Study of integrated elementary Arts Education. The course aims at defining, developing, and applying creative thinking skills as they relate to the integration of the Arts (art, music, drama, and dance) with other content areas (language arts, math, science, social studies, practical living, etc.) and state standards.

**ELE 421. Advanced Math Pedagog & Assess. (2 Credits)**

Prerequisites: CED 400 (B); EME 301 (C) or MAE 302 (C); Admission to professional education. Corequisites: CED 450 and ELE 422. Methods and materials of teaching P-5 mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem solving.

**ELE 422. Advanced Language Arts Pedagogy and Assessment. (2 Credits)**

Prerequisites: [ELE 302 (C) and CED 400 (B) and Elem Ed major]; or [SED 260 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/ELE concentration]; or [SED 260 (C) and CED 400 (B) and DHH major w/ELE concentration]; admission to professional education. Corequisite: CED 450 and ELE 423. An examination of advanced pedagogical skills for teaching language arts with an emphasis on assessing, diagnosing, prescribing, and monitoring for student learning, differentiated instruction, and teacher and student use of technology for instruction and assessment.

**ELE 423. Advanced Social Studies Pedagogy and Assessment. (2 Credits)**

I, II. Prerequisite: [EDF 413 (C) and CED 400 (B) and Elem Ed major]; or [SED 350 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/ELE concentration]; or [SED 510 (C) and CED 400 (B) and DHH major w/ELE concentration]; admission to professional education. Corequisite: CED 450 and ELE 424. Examination of advanced pedagogical skills for teaching the social studies in grades P-5 with an emphasis on formative and summative assessment to monitor student learning, differentiated instruction, and teacher and student use of technology.

**ELE 424. Advanced Science Pedagogy and Assessment. (2 Credits)**

I, II. Prerequisite: [EMS 490 (C) and CED 400 (B) and Elem Ed major]; or [SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/ELE concentration]; or [SED 390 (C) or EMG 490 (C), and CED 400 (B), and DHH major w/ELE concentration]; admission to professional education. Co-requisites: CED 450 and ELE 421. Modern materials and methods for teaching inquiry-based science in primary through grade five.

**ELE 445. Foundations of Reading/ Language Arts. (3 Credits)**

I, II. Cross-listed as EMG 445. Prerequisites: Admission to professional education. Corequisite or Prerequisite: EDF 219, or 219W. An overview of reading/language arts components P-5, teacher competencies, organization and planning for instruction. Up to 10 clinical hours may be required. Credit will not be awarded to students who have credit for EMG 445, EMG 445W, ELE 445W, ELE 302, or SED 260.

**ELE 445W. Foundations of Reading/ Language Arts. (3 Credits)**

I, II. Cross listed as EMG 445W. Prerequisites: junior standing; 2.75 GPA; ENG 101 and 102, or HON 102 with a minimum grade of "C", or ENG 105 with a minimum grade of "B"; admission to professional education. Corequisite or Prerequisite: EDF 319, 319W, 219, or 219W. An overview of reading/language arts components P-5, teacher competencies, organization and planning for instruction. Twenty hours of field/clinical experiences. Credit will not be awarded to students who have credit for EMG 445, EMG 445W, ELE 445, or ELE 302.

**ELE 446A. Reading & Language Arts P-5. (3 Credits)**

I, II. Prerequisites: EDF 319, EDF 319W, EDF 413, ELE 490, ELE 445 with a grade of "C" or higher and admission to professional education. Prerequisite or Corequisite: SED 402. Corequisite: CED 450. Emphasis on theory, curriculum, teaching techniques and materials, instructional planning, assessment and use of results. Credit will not be awarded to students who have credit for ELE 446S and/or ELE 446W.

**ELE 446B. Reading & Language Arts P-5. (3 Credits)**

I, II. Prerequisites: EDF 319, EDF 319W, EDF 413, ELE 490, ELE 445 with a grade of "C" or higher and admission to professional education. Prerequisite or Corequisite: SED 402. Corequisite: CED 450. Emphasis on theory, curriculum, teaching techniques and materials, instructional planning, assessment and use of results. Credit will not be awarded to students who have credit for ELE 446S and/or ELE 446W.

**ELE 446C. Reading & Language Arts P-5. (3 Credits)**

Emphasis on theory, curriculum, teaching techniques and materials, instructional planning, assessment and use of results. Twenty field/clinical hours.

**ELE 475. Diagnosing & Remediating reading Difficulties. (3 Credits)**

I,II. Prerequisites: SED 260 or ELE 302 and admission to professional education. Corequisite: CED 400. A study of the procedures for assessing and diagnosing reading difficulties, and implementing reading instruction to assist struggling readers in grades P-5. Embedded Field/Clinical Experiences: 40 hours.

**ELE 491A. Mathematics in ELE Grades P-5. (3 Credits)**

Methods and materials of teaching P-5 mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem solving. Twenty field/clinical hours.

**ELE 491B. Mathematics in ELE Grades P-5. (3 Credits)**

Methods and materials of teaching P-5 mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem solving. Twenty field/clinical hours.

**ELE 491C. Mathematics in ELE Grades P-5. (3 Credits)**

Methods and materials of teaching P-5 mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem solving. Twenty field/clinical hours.

**ELE 492A. Science in ELE Grades P-5. (3 Credits)**

Modern materials and methods for teaching science in P-5. Five discussion-laboratory hours per week. Twenty field/clinical hours.

**ELE 492B. Science in ELE Grades P-5. (3 Credits)**

Modern materials and methods for teaching science in P-5. Five discussion-laboratory hours per week. Twenty field/clinical hours.

**ELE 492C. Science in ELE Grades P-5. (3 Credits)**

Modern materials and methods for teaching science in P-5. Five discussion-laboratory hours per week. Twenty field/clinical hours.

**ELE 493A. Soc Studies in ELE Grades P-5. (3 Credits)**

Theory, content, and practice of teaching Social Studies in grades P-5. Twenty field/clinical hours.

**ELE 493B. Soc Studies in ELE Grade P-5. (3 Credits)**

Theory, content, and practice of teaching Social Studies in grades P-5. Twenty field/clinical hours.

**ELE 493C. Soc Studies in ELE Grade P-5. (3 Credits)**

Theory, content, and practice of teaching Social Studies in grades P-5. Twenty field/clinical hours.

**ELE 507. Problems in Elementary Education. (1-3 Credits)**

A. Prerequisite: advisor/ departmental approval. Independent work, special workshops, special topics, or seminar.

**ELE 519. Teaching in the Kindergarten. (3 Credits)**

I, II. Focuses upon the kindergarten movement, organization, equipment, curriculum, and procedures; leaders and literature of kindergarten education. Opportunity for observing and participating in kindergarten.

**Educational Foundations****EDF 103. Introduction to Education. (1 Credit)**

I, II. Corequisite: CED 100. An exploration of the professional qualities and expectations of a teacher/educator. Roles, responsibilities and challenges in the field of education will be reviewed. For pre-education and noneducation majors.

**EDF 200. Schools and Our Society. (3 Credits)**

I, II. Prerequisite: Score accepted by the Kentucky Education Professional Standards Board on one of the approved tests: ACT, PPST, SAT, GRE. An introduction to social and cultural influences on schools, the purposes of schooling, the governance, financing, and administration of schools, and the role of the individual as an educator. 15 hours of field experience required.

**EDF 203. Educational Foundations. (3 Credits)**

I, II. Co-requisite: CED 100. An introduction to social and cultural influences on schools, the purposes of schooling, the governance, financing, and administration of schools, and the role of the individual as an educator. Background check College approved procedure must be ordered and paid for by the first day of class.

**EDF 204. Emerging Instructional Technologies. (2 Credits)**

(2) I,II. technology applications to education, training, and instruction within educational and human services setting. Students examine, develop, and/or evaluate emerging instructional technologies. For individuals interested in exploring technological applications in teaching and learning.

**EDF 205. Creative Learning and Teaching. (3 Credits)**

(3) II. An Introduction to the basic theories and principles of creativity as applied to development of your own creative thinking and how teachers, professionals and parents can encourage creativity in others.

**EDF 219. Human Development and Learning. (3 Credits)**

(2) I, II. Corequisite: CED 200. The Study of theories and principles of human development and learning as applied to the classroom. Credit will not be awarded to students who have credit for EDF 320, EDF 219W or EDF 319.

**EDF 219W. Human Development and Learning. (3 Credits)**

(2) I, II. Prerequisite: ENG 101 or 101R and 102, or HON 105 with a minimum grade of "C", or ENG 105 with a minimum grade of "B". Corequisite: CED 200. The study of theories and principles of human development and learning as applied to the classroom. Credit will not be awarded to students who have credit for EDF 320, EDF 219 or EDF 319.

**EDF 310. Transition to Education. (1-3 Credits)**

I, II. Prerequisite: Completion of Background check prior to the first day of the semester. Candidates will follow the College of Education Licensure and Certification approved procedure. Corequisite: CED 150. EDF 310 is required of candidates who have an equivalent transfer course(s) for [EDF 203, CDF 203] or [EDF 219, CDF 235].

**EDF 320. Human Development and Learning for Vocational Education. (3 Credits)**

I, II. The study of theories and principles of human development and learning as applied within vocational-industrial technical education classrooms. Credit not awarded to students with credit for EDF 319.

**EDF 330. U.S. South and Black Education. (3 Credits)**

A. Cross listed as AFA 330. This course introduces the major themes of Black populations pursuing educational opportunities in Southern States. Students will acquire knowledge about historical events, people and policies shaping the evolution of Blacks in education. Credit will not be awarded to students who have credit for AFA 330. Gen. Ed. VIII.

**EDF 413. Assessment in Education. (2-3 Credits)**

I, II. Prerequisite: MAT 105 (or higher) or STA 215 (or higher)(C) admission to professional education. Corequisite: EMS 490 or SED 390 (for DHH/LBD education majors only); and CED 400. Principles and procedures in assessing and evaluating pupil growth in skills, attitudes, aptitudes, and understandings. Assessment construction, analysis, item analysis. Marking systems, and authentic assessment systems will be addressed. Course embedded and school-based clinical practice required: if students do not make the requisite passing grade of C in the content course, they must repeat that course and also complete an additional clinical experience.

**Middle Grade Education****EMG 430. Middle Grade Curriculum. (3 Credits)**

I. Prerequisites: admission to professional education, EDF319 with a C or higher. Corequisite: EMS 349R. An examination of the curriculum and the responsibilities of teaching in the middle grade.

**EMG 445. Foundation of Reading/Language Arts. (3 Credits)**

I, II. Cross listed as ELE 445. Prerequisites: junior standing, 2.7 GPA; Admission to Professional Education. Prerequisite/Corequisite: EDF 319, 319W, 219, or 219W. An overview of reading/language arts components 5-9, teacher competencies, organization and planning for instruction. Twenty hours of field/clinical experiences. Credit will not be awarded to students who have credit for ELE 445, EMG 445W, ELE445W, or ELE 302.

**EMG 445W. Foundation of Reading/Language Arts. (3 Credits)**

I, II. Cross listed as ELE 445W. Prerequisites: junior standing and 2.75 GPA, ENG 101 and 102, or HON 105 with a minimum grade of "C", or ENG 105 with a minimum grade of "B"; admission to professional education program. Prerequisite/Corequisite: EDF 319, 319W, 219, or 219W. An overview of reading/language arts components P-5, teacher competencies, organization and planning for instruction. Twenty hours of field/clinical experiences. Credit will not be awarded to students who have credit for ELE 445W, ELE 445, EMG 445, or ELE 302.

**EMG 447. Disciplinary Literacy in the Middle Grades. (3 Credits)**

I. Prerequisites: EMG 445 or EMG 445W; and admission to professional education. Corequisite: CED 450. The theory, content and practice of teaching reading and language arts in the middle grades utilizing disciplinary literacy materials.

**EMG 491. Mathematics in the Middle Grades. (3 Credits)**

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/EMG concentration]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG concentration]. Corequisite: CED 450. Appropriate materials and methods for teaching mathematics in the middle grades. Candidates must have completed (or be completing) at least 18 hours of math content in order to be eligible for this.

**EMG 492. Science in the Middle Grades. (3 Credits)**

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/ LBD/EMG conc]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG conc]. Corequisite: CED 450. Introduces prospective teachers to the modern materials and methods of teaching science in the middle grades. Candidates must have completed (or be completing) at least 18 hours of science content in order to be eligible for this methods course.

**EMG 493. Social Studies in the Middle Grades. (3 Credits)**

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/ LBD/EMG conc]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG conc]. Corequisite: CED 450. Appropriate materials and methods for teaching social studies in the middle grades. Candidates must have completed (or be completing) at least 18 hours of social sciences content in order to be eligible for this methods course.

**EMG 494. English and Communication in the Middle Grades. (3 Credits)**

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/EMG conc]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG conc]. Corequisite: CED 450. Study of effective teaching techniques, strategies and materials for middle grade English/communication skills. Credit will not be awarded for both EMG 494 and EMG 494W. Candidates must have completed (or be completing) at least 18 hours of English/Language Arts content in order to be eligible for this methods course.

**EMG 494W. English and Communication in the Middle Grades. (3 Credits)**

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/EMG conc]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG conc]; and grade of "C" or higher in ENG 101 and 102, or HON 102; or ENG 105 with a grade of "B" or higher. Corequisite: CED 450. Study of effective teaching techniques, strategies and materials for middle grade English/communication skills. Credit will not be awarded for both EMG 494 and 494W. Candidates must have completed (or be completing) at least 18 hours of English/Language Arts content in order to be eligible for this methods course.

**EMG 507. Problems in Middle Grade Education:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: advisor approval. Independent work, workshops, special topics, or seminar. May be retaken to a maximum of six hours under different subtitles.

**Special Education****SED 104. Special Education Introduction. (3 Credits)**

I, II, A. Overview of major categories of exceptionalities and the educational, legal, and social issues in the area of disabilities and special education. Observations/participation through field experience required. Gen. Ed Element 6.

**SED 207. Topics in Special Education. (1-3 Credits)**

A. Work related to current issues and topics in special education, special workshops, special seminars. May be retaken with a maximum of nine hours.

**SED 240. Com Skills for Hearing Imp. (3 Credits)**

I. Basic principles of manual communication and fingerspelling. Builds an expressive and receptive vocabulary of a least 1,000 signs to enable communication with individuals who use total communication.

**SED 260. Language and Speech Disorders of Exceptional Children. (3 Credits)**

I, II. Acquisition of normal language and speech in our multi-cultural society. Identification and educational management of language and speech disorders in exceptional children.

**SED 270. Technology/Strategies for MSD. (3 Credits)**

II. Formerly SED 530. The implementation of computer technology and assistive/adaptive devices and strategies for students with multiple and severe disabilities including dual sensory. The use of Milieu language strategies and symbolic/non-symbolic communication in natural environments and daily routines. Credit will not be awarded to students who have credit for SED 530.

**SED 305. Behavior Disorders. (3 Credits)**

A. Formerly SED 578. Prerequisite: ENG 102, or HON 102 with a grade of "C" or better, or ENG 105 with a grade of "B" or better. Open to non-majors. Behavior disorders and/or emotional disturbances as an educational, psychological, and sociological phenomenon. Definitions, characteristics, theoretical foundations, programmatic approaches. Credit will not be awarded to students who have credit for SED 578.

**SED 318. Special Education in Early Childhood. (3 Credits)**

I, II. Formerly SED 518. Prerequisites: SED 104; Prerequisite or Corequisite SED 260 or CDS 360; or department approval. Overview of history, philosophy, legislation and services for young children (0-5) at-risk for or with disabilities, including impact and intervention across developmental domains. Credit will not be awarded to students who have credit for SED 518.

**SED 337. Education of the Deaf and Hard of Hearing. (3 Credits)**

(2) A. Study of personality, intellectual, and emotional development of the deaf and hard of hearing. Emphasis on social maturity, motor functioning, multiple disabilities and the significant history of educational programs at all levels.

**SED 341. Behavior Management. (3 Credits)**

I, II. Techniques of behavioral management of exceptional students in educational settings. Applied behavior analysis data collection, intervention, and reporting. Practical procedures for teaching new behaviors. Open to non-majors.

**SED 350. Introduction to Special Education Assessment. (3 Credits)**

II. Formerly SED 576. Prerequisites: MAT 105 (or higher) or STA 215 (or higher) (C); SED 104 (C); and admission to professional education. Corequisites: CED 400 and SED 390. Principles of tests and measurements. Test administration, scoring, and interpretation applied to exceptional children. Application of assessment data to interdisciplinary teams. Credit will not be awarded to students who have credit for SED 576.

**SED 351. Special Educational Assessment. (3 Credits)**

I, II. Prerequisite: SED 104. Principles and application of educational assessment of learning and behavior disordered students. Educational interpretation of assessment outcomes.

**SED 352. Special Education Early Childhood Assessment. (3 Credits)**

II. Prerequisite: SED 104. Formal and informal procedures for screening and assessing young children (0-5) with disabilities or at-risk conditions in physical, communication, cognitive, psychosocial and self-help areas.

**SED 356. Methods and Materials for LBD. (3 Credits)**

A. Prerequisites: SED 104 (C) and admission to professional education. Co-requisite: CED 300 or CED 400. Instructional principles and methodology; development, implementation, and evaluation of validated educational programs and materials for LBD.

**SED 375. Practicum in Special Education. (3 Credits)**

I, II. Prerequisite: SED 510(C) or 350(C). Corequisite: CED 450. Candidates will interact with P-12 students with disabilities (IEPs) in educational settings through teaching, student engagement, assessment, and collaboration. Minimum 168 contact hours required.

**SED 390. Applied Behavior Analysis. (3 Credits)**

I, II. Formerly SED 590. Prerequisites: SED 104 (C) and admission to professional education, communication disorders major, SED minors, or departmental approval. Corequisite: CED 400 for ELE/LBD, ELE/DHH, MG/DHH, or MG/LBD majors. Behavior analysis applied to classroom and instructional management. Development of skills in data collection, intervention procedures, and evaluation of behavior change. Credit will not be awarded to students who have credit for SED 590.

**SED 401. Divers Lrnrs in Mid/Secondary. (3 Credits)**

I, II. Prerequisite: admission to teacher education. Principles for teaching and accommodating exceptional learners. Instructional modifications, management and collaboration across content areas. 20 field/clinical hours. Credit will not be awarded to students who have credit for SED 401S.

**SED 401S. Divers Lrnrs in Mid/Secondary. (3 Credits)**

I, II. Prerequisite: admission to teacher education. Principles for teaching and accommodating exceptional learners in educational settings. Instructional modifications, management, and collaboration across content areas. 20 field/clinical hours of service learning. Credit will not be awarded for both SED 401 and 401S.

**SED 402A. Differentiated Instruction. (3 Credits)**

(3) I,II Prerequisites: EDF 319, ELE, 445, admission to teacher education. Co-requisites: ELE 446 or 446W, ELE 491, ELE 492, ELE 493. Differentiating instruction for exceptional learners in elementary settings. Collaboration and planning to address diverse learners. 20 field/clinical hours.

**SED 402B. Differentiated Instruction. (3 Credits)**

(3) I,II Prerequisites: EDF 319, ELE, 445, admission to teacher education. Co-requisites: ELE 446 or 446W, ELE 491, ELE 492, ELE 493. Differentiating instruction for exceptional learners in elementary settings. Collaboration and planning to address diverse learners. 20 field/clinical hours.

**SED 436. Early Intervention Programming. (3 Credits)**

A. Prerequisite: Admission to Professional Education or departmental approval. Developmental, family-focused intervention methods, materials and programs for young children (0-5) at-risk for or with disabilities. Curriculum design across physical, communication, cognitive, psychosocial and self-help areas. Planning, implementing, monitoring and evaluating IEPs/IFSPs.

**SED 445. IEP Transition and Professional Roles in Special Education. (3 Credits)**

I, II. Formerly SED 545. Prerequisite: admission to professional education or departmental approval. Working with interdisciplinary team, including family, to design and implement IEP including instruction, related services, and transition for employment and community living. Collaboration strategies, and personnel, and records management. Credit will not be awarded to students who have credit for SED 545.

**SED 450. Assessment and Methods for Deaf and Hard of Hearing. (3 Credits)**

II. Formerly SED 510. Prerequisites: SED 260 (C), admission to professional education, or department approval. Corequisite: CED 400. Standardized and informal assessments used to measure reading and content knowledge of deaf and hard of hearing students. Principles and procedures in assessing, evaluating pupil growth, and IEP development. Sample curricula and High Leverage instructional strategies used with students who are deaf and hard of hearing. Credit will not be awarded to students who have credit for SED 510.

**SED 504. Assistive/Adaptive Technology. (3 Credits)**

I, A. Classroom use and modification of computer technology and assistive/adaptive devices. Integratio of assistive technology into assessments, IEPs, lesson plans, education activities, and daily routines. 1.5 Lab.

**SED 538. Language of the Deaf and Hard of Hearing. (3 Credits)**

(3) A. Formerly: SED 338. Prerequisite: SED 260 or departmental approval. Receptive and expressive conversational language development and written language acquisition from a developmental perspective. Concepts in bilingual education applied to deaf. Methods to assess and facilitate language development.

**SED 574. Field Experiences with Exceptional Learners. (3 Credits)**

A. Prerequisite: departmental approval. A practicum experience with exceptional individuals. Emphasis is directed at behavior management, educational assessment, and IEP/IFSP.

**SED 577. Dual Sensory and Communication. (3 Credits)**

A. Prerequisite: SED 260. Assessment, planning, and instruction for students with dual sensory impairments and severe cognitive disabilities. Augmentative and alternative communication methods, materials, and devices. Milieu language strategies, symbolic and nonsymbolic communication in natural environments and daily activities.

**SED 580. Audiology for Teachers of the Deaf and Hard of Hearing. (3 Credits)**

Physics of sound; anatamoy, physiology, pathology and medical treatment of the auditory system; introduction to the audiometer and basic pure-tone and speech (auditory) testing; hearing aids and devices.

**SED 581. Speech for the Deaf and Hard of Hearing. (3 Credits)**

A. Prerequisites: SED 580 or instructor approval. Phonological development, acoustic articulation, rhythm, phrasing, accent, fluency, effects of impairment on speech, speech reading, auditory training.

## Career and Technical Education (Teaching), Associate of Applied Science (A.A.S.)

*Note: Enrollment in this program is restricted to in-service technical teachers and graduates of a technical program at a Community or Technical College.*

The AAS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

Graduates of this program must have a minimum of 4,000 hours of supervised work experience or four years of occupational experience in the area to be taught.

## Program Requirements

CIP Code: 13.1319

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		20-21
Elements:		
Elements 1A, and 2B with a grade of "A" or "B"		
ENG 101	Reading, Writing, and Rhetoric	
ENG 102	Research, Writing, and Rhetoric	
ENG 105	First Year Writing Seminar	
Element 2		
MAT 114	College Algebra (or higher)	
Any Element 3A or 3B		
Element 5A or 5B		
Five hours of any other General Education coursework		
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
<b>Major Requirements</b>		
<i>Core Courses</i>		
TEC 161	Computer Applications in Technology	3
Choose from 21 hours from the technical area, or related to the area in which the individual proposes to teach, as approved by the advisor <sup>1,2</sup>		21
<i>Supporting Course Requirements</i>		
CTE 261	Foundations of Career and Technical Education	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 364	Methods in Career and Technical Education	3
CTE 463	Practicum in Career and Technical Education <sup>3</sup>	12
Exit Exam:		
Students must take a professional career and technical education assessment and the Teacher Occupational Competency Test (TOCT) before graduation.		
<i>Exit Requirements</i>		
PRAXIS Examination:		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>66-67</b>

1

A maximum of nine hrs (CTE 204 Related Sci Math & Tech: Occ I, CTE 205 Manipulative Skills: Occ I, CTE 206 Related Knowledge: Occ I) may be earned by proficiency examination.

2

Nine hours credit may be supervised work experience (TEC 349 Applied Learning in Technology).

3

In-service teachers should substitute CTE 164 Orientation to Career and Technical Education, CTE 363 Evaluation in Career and Technical Education, CTE 463 Practicum in Career and Technical Education and EDF 319 or SED 104 Special Education Introduction

## Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Agriculture Education (B.S.)

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

### Program Requirements

CIP Code: 13.1319

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
CTE 463	Practicum in Career and Technical Education	

or ESE 499

**Major Requirements**

*College Requirements*

BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0

**Pre-Service Teacher Education Program**

*Career and Technical Education Requirements*

CTE 262	Foundations of Career and Technical Education (Pre-Service)	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3

*Concentrations*

Students must select one of the following Concentrations: 45

- Agriculture Education
- Technical Education
- Engineering/Technology Education <sup>1</sup>

*Professional Education Requirements*

EDF 203	Educational Foundations	1
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	2
EMS 300W	Curriculum and Instructional Design	1
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	1
ESE 552	Teaching of Career and Technical Education in Middle and Secondary Schools	3
SED 104	Special Education Introduction (Element 6) <sup>G,C</sup>	
SED 402		2
TEC 368	Workshop in Technology <sup>2</sup>	3

**Clinical Experiences:**

CED 100	Clinical I: Introduction to the Education Profession	0.5
CED 200	Clinical II: Understanding the Learner	0.5
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9

**Total Hours** 122

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**C**  
Course also satisfies Core or Concentration requirements

<sup>1</sup>  
Those desiring eligibility to teach in pre-engineering education programs at the middle school and high school level should take the following general education courses: CHE 111 General Chemistry, MAT 114 College Algebra, MAT 120 Trigonometry, PHY 131 College Physics I.

<sup>2</sup>  
Course meets Professional Education Requirements.

**Concentration**

**Animal Science**

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
Choose from one of the following:		4
AGR 321	Feeds and Feeding	
AGR 327	Beef Production	
AGR 328	Swine Production	
AGR 380	Technical Management of Dairy Cattle	
<i>Agricultural Systems Management</i>		
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
Choose from one of the following:		2-3
AGR 272		
AGR 311	Agriculture Metal Fabrication	
AGR 362	Hydraulic Systems	
AGR 383	Diesel Power Systems	
<i>Soil Science</i>		
AGR 215	Principles of Soils	3
Choose from one of the following:		3
AGR 315		
AGR 317		
AGR 318	Soil/Water Conservation Technology	
<i>Plant Science</i>		
Choose from one of the following:		4
AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	
Choose from one of the following:		4
AGR 312	Ecology and Management of Grasslands and Pastures	
AGR 417		
OHO 384		
or OHO 385		
<i>Agriculture Business</i>		
AGR 308	Agricultural Economics	3
Choose from one of the following:		3
AGR 310	Principles of Agribusiness Management	
AGR 350	Agricultural Marketing	
AGR 409	Agriculture Business Records and Analysis	
AGR 440	Agricultural Financing	
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
Agriculture or Horticulture electives to make 45 credit hours selected in consultation with your advisor		7
<b>Total Hours</b>		<b>45-46</b>

Graduates completing the Pre-Service Teacher Education concentration must have a minimum of 2000 clock hours of planned and supervised work experience in the occupation in which they will teach or a minimum of three years of approved work experience in the occupation in which

they will teach. Students must also take the PRAXIS II Specialty Examination before graduation.

Candidates earning a degree that leads to pre-service teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year. Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams.

## Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Engineering/Technology Education (B.S.)

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

### Program Requirements

CIP Code: 13.1319

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
CTE 463 or ESE 499	Practicum in Career and Technical Education	
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0
<b>Pre-Service Teacher Education Program</b>		
<i>Career and Technical Education Requirements</i>		
CTE 262	Foundations of Career and Technical Education (Pre-Service)	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		45
Agriculture Education		
Technical Education		
Engineering/Technology Education <sup>1</sup>		
<i>Professional Education Requirements</i>		
EDF 203	Educational Foundations	1
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	2
EMS 300W	Curriculum and Instructional Design	1
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	1
ESE 552	Teaching of Career and Technical Education in Middle and Secondary Schools	3
SED 104	Special Education Introduction (Element 6) <sup>G,C</sup>	
SED 402		2
TEC 368	Workshop in Technology <sup>2</sup>	3
Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0.5
CED 200	Clinical II: Understanding the Learner	0.5
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<b>Total Hours</b>		<b>122</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**C**

Course also satisfies Core or Concentration requirements

1

Those desiring eligibility to teach in pre-engineering education programs at the middle school and high school level should take the following general education courses: CHE 111 General Chemistry, MAT 114 College Algebra, MAT 120 Trigonometry, PHY 131 College Physics I.

2

Course meets Professional Education Requirements.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 195	Computer Aided Drafting	3
AEM 201	Metallic Material Processes	3
AEM 371	Hydraulics and Pneumatics	3
AEM 383	CAD/CAM Integration	3
CON 121	Introduction to Construction	3
CON 201	Materials and Methods of Construction	3
CON 294	Construction Graphics	3
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
TEC 161	Computer Applications in Technology	3
TEC 190	Technical Graphics	3
TEC 303	Problem Solving and Engineering	3
TEC 404	Princ. of Engr. and Tech.	3
Choose from three hours of the following:		3
AVN 150	Introduction to Aviation	
GCM 211	Graphic Communication	
TEC 102	Technology and Society	
TEC 141	Elementary Woodworking	
<b>Total Hours</b>		<b>45</b>

Graduates completing the Pre-Service Teacher Education concentration must have a minimum of 2000 clock hours of planned and supervised work experience in the occupation in which they will teach or a minimum of three years of approved work experience in the occupation in which they will teach. Students must also take the PRAXIS II Specialty Examination before graduation.

Candidates earning a degree that leads to pre-service teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year. Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams.

## Career and Technical Education/ Teaching, Bachelor of Science with a Concentration in Occupational Training and Development (B.S.)

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

**Program Requirements**

CIP Code: 13.1319

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)	
CTE 463	Practicum in Career and Technical Education	

or ESE 499		
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0
<b>In-Service Teacher Education Program</b>		
<i>Professional Education Core</i>		
CTE 164	Orientation to Career and Technical Education	3
CTE 261	Foundations of Career and Technical Education	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3
CTE 364	Methods in Career and Technical Education	3
CTE 463	Practicum in Career and Technical Education	4
EDF 320	Human Development and Learning for Vocational Education	3
TEC 161	Computer Applications in Technology	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		
Technical Education		
Occupational Training and Development		45
<i>Supporting Course Requirements</i>		
Choose from three hours of the following:		
MAT 114	College Algebra (Element 2) (or higher) <sup>G</sup>	3
SED 104	Special Education Introduction (Element 6) <sup>G,1</sup>	
<i>Free Electives</i>		
Choose from 10 hours of free electives		
		10
<i>Exit Requirements</i>		
PRAXIS Examination		0
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>120</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**1**  
Course meets Professional Education Requirements.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
45 semester hours of technical courses to be chosen in consultation with the advisor		45
A maximum of 18 semester hours of the following may be allowed by proficiency examination:		
CTE 204	Related Sci Math & Tech: Occ I	
CTE 205	Manipulative Skills: Occ I	
CTE 206	Related Knowledge: Occ I	
CTE 304	Rel Sci Math & Tech in Occ	
CTE 305	Manipul Skills Occupation II	

CTE 306	Related Knowledge: Occ II	
<b>Total Hours</b>		<b>45</b>

# Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Technical Education (B.S.)

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

## Program Requirements

CIP Code: 13.1319

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

### Pre-Service Teacher Education Program

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

CTE 463	Practicum in Career and Technical Education or ESE 499	
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0
<b>Pre-Service Teacher Education Program</b>		
<i>Career and Technical Education Requirements</i>		
CTE 262	Foundations of Career and Technical Education (Pre-Service)	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		45
Agriculture Education		
Technical Education		
Engineering/Technology Education <sup>1</sup>		
<i>Professional Education Requirements</i>		
EDF 203	Educational Foundations	1
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	2
EMS 300W	Curriculum and Instructional Design	1
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	1
ESE 552	Teaching of Career and Technical Education in Middle and Secondary Schools	3
SED 104	Special Education Introduction (Element 6) <sup>G,C</sup>	
SED 402		2
TEC 368	Workshop in Technology <sup>2</sup>	3
<i>Clinical Experiences:</i>		
CED 100	Clinical I: Introduction to the Education Profession	0.5
CED 200	Clinical II: Understanding the Learner	0.5
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<b>Total Hours</b>		<b>122</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**C**  
Course also satisfies Core or Concentration requirements

<sup>1</sup>  
Those desiring eligibility to teach in pre-engineering education programs at the middle school and high school level should take the following general education courses: CHE 111 General Chemistry, MAT 114 College Algebra, MAT 120 Trigonometry, PHY 131 College Physics I.

2  
Course meets Professional Education Requirements.

**In-Service Teacher Education Program**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
CTE 463	Practicum in Career and Technical Education or ESE 499	
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0
<b>In-Service Teacher Education Program</b>		
<i>Professional Education Core</i>		
CTE 164	Orientation to Career and Technical Education	3
CTE 261	Foundations of Career and Technical Education	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3
CTE 364	Methods in Career and Technical Education	3
CTE 463	Practicum in Career and Technical Education	4
EDF 320	Human Development and Learning for Vocational Education	3
TEC 161	Computer Applications in Technology	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		45
Technical Education		
Occupational Training and Development		
<i>Supporting Course Requirements</i>		
Choose from three hours of the following:		3
MAT 114	College Algebra (Element 2) (or higher) <sup>G</sup>	
SED 104	Special Education Introduction (Element 6) <sup>G,1</sup>	
<i>Free Electives</i>		
Choose from three-five hours of free electives		3-5
<i>Exit Requirements</i>		
PRAXIS Examination		0
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>113-115</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

1  
 Course meets Professional Education Requirements.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
45 semester hours of technical courses to be chosen in consultation with the advisor		45
A maximum of 18 semester hours of the following may be allowed by proficiency examination:		
CTE 204	Related Sci Math & Tech: Occ I	
CTE 205	Manipulative Skills: Occ I	
CTE 206	Related Knowledge: Occ I	
CTE 304	Rel Sci Math & Tech in Occ	
CTE 305	Manipul Skills Occupation II	
CTE 306	Related Knowledge: Occ II	
TEC 349	Applied Learning in Technology (Pre-Service Teacher Education Program only)	
<b>Total Hours</b>		<b>45</b>

Graduates completing the Pre-Service Teacher Education concentration must have a minimum of 2000 clock hours of planned and supervised work experience in the occupation in which they will teach or a minimum of three years of approved work experience in the occupation in which they will teach. Students must also take the PRAXIS II Specialty Examination before graduation.

Candidates earning a degree that leads to pre-service teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year. Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams.

# Education of the Deaf and Hard of Hearing (P-12), Bachelor of Science with a Concentration in Elementary Education (P-5) (B.S.)

## Program Requirements

CIP Code: 13.1003

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3

<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
EDO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Deaf and Hard of Hearing Education majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements.)

CED 499	Clinical VI: The Professional Semester	
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### Major Requirements

<i>Core Courses</i>		
SED 260	Language and Speech Disorders of Exceptional Children	3
SED 337	Education of the Deaf and Hard of Hearing	3
SED 375	Practicum in Special Education	3
SED 445	IEP Transition and Professional Roles in Special Education	3
SED 538	Language of the Deaf and Hard of Hearing	3
SED 580	Audiology for Teachers of the Deaf and Hard of Hearing	3
SED 581	Speech for the Deaf and Hard of Hearing	3
SED 318	Special Education in Early Childhood	3

### Professional Education Requirements

EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EMS 300W	Curriculum and Instructional Design	3
EMS 490	Classroom & Behavior Management	3
or SED 390	Applied Behavior Analysis	
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	

SED 450/EDF 413 Assessment and Methods for Deaf and Hard of Hearing 3

Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	12

**Concentrations**

Students must select one of the following Concentrations: 6-27

- Elementary Education (P-5)
- Middle Grade Education (5-9)

*Supporting Course Requirements*

Choose from 21-35 hours of supporting courses	21-35
21 hours of Elementary Education (P-5)	
30-35 hours of Middle Grade and Area of Emphasis	

*Exit Requirements*

**PRAXIS Examination:**

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours 122-157**

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
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**Concentration Courses**

ELE 101	Creative Thinking Through Performance Arts	3
or ELE 102	Creative Thinking Through Visual Arts	
ELE 201	Practical Living	3
ELE 420	Creative Thinking Lab	1
ELE 421	Advanced Math Pedag & Assess	2
ELE 422	Advanced Language Arts Pedagogy and Assessment	2
ELE 423	Advanced Social Studies Pedagogy and Assessment	2
ELE 424	Advanced Science Pedagogy and Assessment	2
ELE 475	Diagnosing & Remediating reading Difficulties	3
EME 301	Mathematical Concepts for P-9 III	3
or MAE 302	Mathematical Concepts for P-9 III	
EME 313	Interdisciplinary Approach to Social Studies Teaching	3
LIB 301	Children's Literature and Related Materials	3

**Supporting Course Requirements**

Choose from 21 hours of the following:	21
ASL 101	American Sign Language I (Element 6) <sup>G</sup>
ASL 102	American Sign Language II (Element 6) <sup>G</sup>
ASL 201	American Sign Language III

**Social Science:**

Element 5A and 5B<sup>G</sup>

HIS 102	American Civilization to 1877
or HON 312V	Honors Seminar in the Social and Behavioral Sciences:___

POL 101	Introduction to American Government
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**English:**

Element 3B <sup>G</sup>	
ENG 210	Enjoying Literature
ENG 210W	Enjoying Literature
ENG 211	Survey of World Literature I
ENG 211W	Survey of World Literature I
ENG 212	Survey of World Literature II
ENG 212W	Survey of World Literature II

HON 306W	
or HON 308V	Honors Seminar in the Humanities:___

ENG 303	Advanced Composition for Teachers
EME 452	Teaching Grammar and Punctuation P-8
or ENG 410	Grammar, Traditional and Modern

**Sciences/Engineering:**

BIO 102	Inquiry Biology for Teachers (Element 4) <sup>G</sup>
GLY 102	Earth Science for Elementary Teachers (Element 4) <sup>G</sup>

CHE 104	Inquiry Physical Science for Elementary Teachers
or PHY 104	Inquiry Physical Science for Elementary Teachers

EDC 314	Engineering in Classroom Context
or TEC 314	Engineering in Classroom Context

**Mathematics:**

MAT 112	Algebra with Applications (Element 2) <sup>G</sup>
MAE 201	Mathematical Concepts for P-9 I
MAE 202	Mathematical Concepts for P-9 II

**Total Hours 48**

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

In order to receive certification in Hearing Impaired with Sign Proficiency candidates must be admitted to that program and pass the American Sign Language Proficiency Interview (ASLPI).

**PRAXIS Disclaimer:** Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Certification at (502)-564-5846.

# Education of the Deaf and Hard of Hearing (P-12), Bachelor of Science with a Concentration in Middle Grade Education (5-9) (B.S.)

## Program Requirements

CIP Cod: 13.1003

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
EDO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Deaf and Hard of Hearing Education majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements.)		
CED 499	Clinical VI: The Professional Semester	
<b>Major Requirements</b>		
<i>Core Courses</i>		
SED 260	Language and Speech Disorders of Exceptional Children	3
SED 337	Education of the Deaf and Hard of Hearing	3
SED 375	Practicum in Special Education	3
SED 445	IEP Transition and Professional Roles in Special Education	3
SED 538	Language of the Deaf and Hard of Hearing	3
SED 580	Audiology for Teachers of the Deaf and Hard of Hearing	3
SED 581	Speech for the Deaf and Hard of Hearing	3
SED 318	Special Education in Early Childhood	3
<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3

EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EMS 300W	Curriculum and Instructional Design	3
EMS 490	Classroom & Behavior Management	3
or SED 390	Applied Behavior Analysis	
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
SED 450/EDF 413	Assessment and Methods for Deaf and Hard of Hearing	3
<i>Clinical Experiences:</i>		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	12

### Concentrations

Students must select one of the following Concentrations: 6-27

Elementary Education (P-5)

Middle Grade Education (5-9)

### Supporting Course Requirements

Choose from 21-35 hours of supporting courses 21-35

21 hours of Elementary Education (P-5)

30-35 hours of Middle Grade and Area of Emphasis

### Exit Requirements

PRAXIS Examination:

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours 122-157**

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EMG 447	Disciplinary Literacy in the Middle Grades	3
Choose from one of the following: 3		
EMG 491	Mathematics in the Middle Grades	
EMG 492	Science in the Middle Grades	
EMG 493	Social Studies in the Middle Grades	
EMG 494	English and Communication in the Middle Grades	
<b>Supporting Course Requirements</b>		
ASL 101	American Sign Language I (Element 6) <sup>G</sup>	
ASL 102	American Sign Language II (Element 6) <sup>G</sup>	
ASL 201	American Sign Language III	3
MAE 201	Mathematical Concepts for P-9 I	3
MAE 202	Mathematical Concepts for P-9 II	3
EME 301	Mathematical Concepts for P-9 III	3
or MAE 302	Mathematical Concepts for P-9 III	

### Area of Emphasis

Candidates seeking middle grade (5-9) certification must select one area of emphasis from the following:<sup>1</sup>

- English and Communications
- Mathematics
- Science
- Social Studies

**Total Hours 36-41**

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

<sup>1</sup>  
See options list under Middle Grade Education (5-9) for a list of courses and block statements. Some emphasis courses are also General Education courses and therefore will count in both areas, reducing total hours to degree.

In order to receive certification in Hearing Impaired with Sign Proficiency candidates must be admitted to that program and pass the American Sign Language Proficiency Interview (ASLPI).

**PRAXIS Disclaimer:** Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Certification at (502)-564-5846.

## Elementary Education (P-5) Teaching, Bachelor of Science (B.S.)

Upon completion of a degree in Elementary Education, candidates will:

1. demonstrate specific pedagogical skills and content knowledge necessary to perform as effective elementary educators;
2. demonstrate understanding and appreciation for students and families from diverse socioeconomic, cultural, learning and ethnic backgrounds as demonstrated through course observations, assignments and/or reflections.

**Candidates have a choice of:**

- Elementary only; or
- Dual Certification in Elementary and Special Education

(See catalog for Learning and Behavior Disorders + Elementary or Deaf and Hard of Hearing + Elementary.)

## Program Requirements

CIP Code: 13.1202

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3

<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
Choose from one of the following:		1
EDO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	
HON 100	Engaging in Honors (waived for transfers with 30+ hrs.)	
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Elementary Education majors will fulfill ACCT with the following. (Credit hours are included in Professional Education requirements.)		
CED 499	Clinical VI: The Professional Semester	
<b>Major Requirements</b>		
<i>Core Courses</i>		
ELE 101	Creative Thinking Through Performance Arts	3
ELE 102	Creative Thinking Through Visual Arts	3
ELE 201	Practical Living	3
ELE 420	Creative Thinking Lab	1
ELE 421	Advanced Math Pedag & Assess	2
ELE 422	Advanced Language Arts Pedagogy and Assessment	2
ELE 423	Advanced Social Studies Pedagogy and Assessment	2
ELE 424	Advanced Science Pedagogy and Assessment	2
ELE 445	Foundations of Reading/ Language Arts	3
ELE 475	Diagnosing & Remediating reading Difficulties	3
EME 301	Mathematical Concepts for P-9 III	3
	or MAE 302 Mathematical Concepts for P-9 III	
EME 313	Interdisciplinary Approach to Social Studies Teaching	3
LIB 301	Children's Literature and Related Materials	3
	or LIB 301S Children's Literature and Related Materials	
<i>Professional Education Requirements</i>		

EDC 106	Culturally Responsive Perspectives	3
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3
EMS 490	Classroom & Behavior Management	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	

**Clinical Experiences:**

CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	12

**Supporting Course Requirements**

Choose from 21 hours of supporting courses 21

**Social Science:****Element 5A and 5B<sup>G</sup>**

HIS 102 American Civilization to 1877  
or HON 312W Honors Seminar in the Social and Behavioral  
Sciences:\_\_\_

POL 101 Introduction to American Government

GEO 100 Regions and Nations of the World  
or GEO 220

**English:****Element 3B<sup>G</sup>**

ENG 210 Enjoying Literature

ENG 210W Enjoying Literature

ENG 211 Survey of World Literature I

ENG 211W Survey of World Literature I

ENG 212 Survey of World Literature II

ENG 212W Survey of World Literature II

HON 306W

or HON 308V Honors Seminar in the Humanities:\_\_\_

ENG 303 Advanced Composition for Teachers

EME 452 Teaching Grammar and Punctuation P-8

**Natural Sciences/Engineering:**BIO 102 Inquiry Biology for Teachers (Element 4)<sup>G</sup>GLY 102 Earth Science for Elementary Teachers (Element 4)<sup>G</sup>

CHE/PHY 104 Inquiry Physical Science for Elementary Teachers

EDC/TEC 314 Engineering in Classroom Context

**Mathematics:**MAT 112 Algebra with Applications (Element 2) (or higher)<sup>G</sup>

MAE 201 Mathematical Concepts for P-9 I

& MAT 202 and Mathematical Concepts for Middle and  
Elementary School Teachers II**Exit Requirements**

PRAXIS Examination:

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours****128****G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**PRAXIS Disclaimer:** Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Certification at (502)-564-5846.

## Middle Grade Education (5-9) Teaching, Bachelor of Science (B.S.)

Upon completion of a degree in Middle Grade Education, candidates will:

1. demonstrate the broad general background knowledge, dispositions, and skills necessary to function as a literate, informed, active citizen, and to serve as a model for middle level students;
2. demonstrate the pedagogical skills and content knowledge necessary to meet Kentucky's Teacher Standards in middle level classrooms;
3. demonstrate the appropriate dispositions to effectively meet the diverse needs of middle level students found in public schools.

Candidates earning a degree that leads to teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams to be recommended for licensure in Kentucky. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year ([www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov/>) and [www.ets.org/praxis](http://www.ets.org/praxis) (<http://www.ets.org/praxis/>)). Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams. For additional information, candidates may also contact the EPSB Division of Professional Learning and Assessment at (859) 564-5778 or (888) 598-7667 (toll free).

## Program Requirements

CIP Code: 13.1203

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		

Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
Middle Grade majors must meet General Knowledge for Professional Education requirements for math, arts, literature, history and science.		
<i>Student Success Seminar</i>		
Choose from one of the following:		1
EDO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	
HON 100	Engaging in Honors (waived for transfers with 30+ hrs.)	
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Middle Grade Education majors will fulfill ACCT with the following. (Credit hours are included in Professional Education requirements.)		
CED 499	Clinical VI: The Professional Semester	
<b>Major Requirements</b>		
<i>Core Courses</i>		
EMG 445	Foundation of Reading/Language Arts	3
or EMG 445W	Foundation of Reading/Language Arts	
EMG 447	Disciplinary Literacy in the Middle Grades	3
Choose from six hours of the following:		
EMG 491	Mathematics in the Middle Grades	
EMG 492	Science in the Middle Grades	
EMG 493	Social Studies in the Middle Grades	
EMG 494	English and Communication in the Middle Grades	
EMG 494W	English and Communication in the Middle Grades	
<i>Professional Education Requirements</i>		
Applied Field Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	12
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 219	Human Development and Learning	3

or EDF 219W	Human Development and Learning	
EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3
EMS 490	Classroom & Behavior Management	3
<i>Supporting Course Requirements</i>		
EDF 204	Emerging Instructional Technologies	2
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
EDC 106	Culturally Responsive Perspectives	3

### Concentrations (Areas of Emphasis)

Students seeking middle grade (5#9) certification must select **two** 36-40 areas of emphasis from English and Communications, Mathematics, Science, and Social Studies. Supporting courses which are also general education courses will have their credit hours count above in the 36 hr. Gen Ed area.

English and Communications
Mathematics
Science
Social Studies

### Exit Requirements

PRAXIS Examination:

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours 116-120**

## G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. Note that a max of 6 credit hours will count toward Element 4 or 5.

## Concentrations

### English and Communications

Code	Title	Hours
Choose from one of the following: (Element 3B) <sup>G</sup>		
ENG 210	Enjoying Literature	
ENG 210W	Enjoying Literature	
HON 308W	Honors Seminar in the Humanities:___	
Choose from one of the following:		3
ENG 211	Survey of World Literature I	
ENG 211W	Survey of World Literature I	
ENG 212	Survey of World Literature II	
ENG 212W	Survey of World Literature II	
ENG 303	Advanced Composition for Teachers	3
ENG 312	British and American Literature Survey I	3
or ENG 313	British and American Literature II	
EME 452	Teaching Grammar and Punctuation P-8	3
LIB 401	Adolescent Literature and Resources	3
Choose from one of the following: (Element 1C)		
CMS 100	Introduction to Human Communication	
HON 102	Honors Rhetoric	
& HON 103	and Honors Communication <sup>G</sup>	
Choose from one of the following:		3
ENG 405	Introduction to Composition	

ENG 510	Introduction to Linguistic Theory	
ENG 520	History of the English Language	
EME 551	Linguistics in the Curriculum	
<b>Total Hours</b>		<b>18</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. Note that a max of 6 credit hours will count toward Element 4 or 5.

**Mathematics**

Code	Title	Hours
EME 301	Mathematical Concepts for P-9 III	3
or MAE 302	Mathematical Concepts for P-9 III	
MAE 305	Problem Solving and Technology	3
MAE 201 & MAE 202	Mathematical Concepts for P-9 I and Mathematical Concepts for P-9 II	6
Choose from one of the following: (Element 2)		
MAT 211	Applied Calculus	
MAT 234	Calculus I <sup>G</sup>	
MAT 203 & MAT 303	Geometry for 7-12 Teachers and Mathematical Models and Applications	6
MAE 303	Math Models and Applications	3
STA 230	Probability and Statistics for Middle Grades Teachers	3
<b>Total Hours</b>		<b>24</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. Note that a max of 6 credit hours will count toward Element 4 or 5.

**Science**

Code	Title	Hours
AST 135	Introductory Astronomy	3
BIO 102	Inquiry Biology for Teachers (Element 4) <sup>G</sup>	
BIO 590	Ecology for Teachers	3
CHE 100	Inquiry Chemistry for Middle School Teachers (Element 4) <sup>G</sup>	
or CHE 101/101L	Introductory Chemistry	
GLY 103	Earth Science for Middle Grades Teachers	3
GEO 115	Hollywood Weather	3
PHY 102	Inquiry Physics for MS Teachers	3
EDC/TEC 314	Engineering in Classroom Context	3
<b>Total Hours</b>		<b>18</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. Note that a max of 6 credit hours will count toward Element 4 or 5.

**Social Studies**

Must take at least one HIS course at the 300 or 400 level.

Code	Title	Hours
Choose from one of the following: (Element 5B)		
ECO 120	Economic Reasoning and Issues	

ECO 130	Contemporary Economic Problems	
ECO 230	Fundamentals of Microeconomics	
ECO 231	Fundamentals of Macroeconomics <sup>G</sup>	
GEO 100 or GEO 220	Regions and Nations of the World	3
HIS 102	American Civilization to 1877 (Element 5A) <sup>G</sup>	
Choose from one of the following:		3
HIS 103	American Civilization Since 1877	
HIS 303	Women in American History	
HIS 304	Slavery in the Americas	
HIS 305	African-American History	
HIS 308	Native Americans to 1830	
HIS 401	American Colonial Period	
HIS 402	Revolutionary America	
HIS 405	America's Westward Expansion	
HIS 424	Civil War and Reconstruction	
HIS 100	World Topics to 1500:___	3
Choose from one of the following:		3
HIS 101	World Topics Since 1500:___	
HIS 321	Islamic Societies to 1800	
HIS 331	Topics in Ancient Egypt/Near Eastern History:___	
HIS 336	Greco-Roman Civilization	
HIS 339	The Dark Ages Illuminated	
HIS 343	The Renaissance & Reformation	
HIS 351	Topics in English History:___	
HIS 359	Topics in Modern European History:___	
HIS 361	Topics in the History of Eurasia:___	
HIS 374	East Asian History to 1600	
HIS 379	China- Empire and Revolution	
HIS 385	Early African History	
REL 301	World Religions	
REL 320	Judaism	
REL 335	Islam	
REL 340	Religions of India	
REL 350	Buddhism	
POL 100 or POL 101	Principles of Politics and Government Introduction to American Government	3
Choose from one of the following:		3
ANT 120	Introduction to Cultural Anthropology	
EME 313	Interdisciplinary Approach to Social Studies Teaching	
SOC 131	Introductory Sociology	
SOC 345		
<b>Total Hours</b>		<b>18</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. Note that a max of 6 credit hours will count toward Element 4 or 5.

# Special Education (Non-Teaching), Minor

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
SED 104	Special Education Introduction	3
SED 260	Language and Speech Disorders of Exceptional Children	3
SED 318	Special Education in Early Childhood <sup>1</sup>	3
SED 390	Applied Behavior Analysis <sup>1</sup>	3
<b>Free Electives</b>		
Choose from six hours of the following:		6
SED 270	Technology/Strategies for MSD	
SED 305	Behavior Disorders	
SED 337	Education of the Deaf and Hard of Hearing	
SED 436	Early Intervention Programming	
SED 538	Language of the Deaf and Hard of Hearing <sup>1</sup>	
CSD 275	Intro Communication Disorders	
<b>Total Hours</b>		<b>18</b>

<sup>1</sup>  
Course has an SED prerequisite

# Special Education/Teaching, Bachelor of Science with a Concentration in LBD-Elementary (B.S.)

Students must see their advisor early in the program.

## Program Requirements

CIP Code: 13.1001

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
EDO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Special Education Teaching majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
CED 499	Clinical VI: The Professional Semester	

### Major Requirements

<i>LBD Core Courses</i>		
SED 260	Language and Speech Disorders of Exceptional Children	3
SED 305	Behavior Disorders	3
SED 356	Methods and Materials for LBD	3
SED 375	Practicum in Special Education	3
SED 445	IEP Transition and Professional Roles in Special Education	3

<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 219	Human Development and Learning	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
SED 270/EDF 204	Technology/Strategies for MSD	3
SED 350/EDF 413	Introduction to Special Education Assessment	3
SED 390/EMS 490	Applied Behavior Analysis	3
EMS 300W	Curriculum and Instructional Design	3
Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	12

<i>Concentrations</i>	
Students must select one of the following Concentrations:	
LBD-Elementary	45
LBD-Middle Grade Education (5-9)	
<i>Supporting Course Requirements</i>	
Choose from 18-31 of supporting courses:	
18 hours of Elementary	

27-31 hours of Middle Grade and Area of Emphasis

**Exit Requirements**

PRAXIS Examination:

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours 132**

**Concentration**

Code	Title	Hours
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**Concentration Courses**

*LBD-Elementary Core Courses*

ELE 101 or ELE 102	Creative Thinking Through Performance Arts Creative Thinking Through Visual Arts	3
ELE 201	Practical Living	3
ELE 420	Creative Thinking Lab	1
ELE 421	Advanced Math Pedag & Assess	2
ELE 422	Advanced Language Arts Pedagogy and Assessment	2
ELE 423	Advanced Social Studies Pedagogy and Assessment	2
ELE 424	Advanced Science Pedagogy and Assessment	2
ELE 475	Diagnosing & Remediating reading Difficulties	3
EME 301 or MAE 302	Mathematical Concepts for P-9 III Mathematical Concepts for P-9 III	3
EME 313	Interdisciplinary Approach to Social Studies Teaching	3
LIB 301	Children's Literature and Related Materials	3

*Supporting Course Requirements*

Choose from 18 hours of the following: 18

Social Science:

Element 5A and 5B <sup>G</sup>

HIS 102 American Civilization to 1877  
or HON 312V Honors Seminar in the Social and Behavioral Sciences:\_\_\_

POL 101 Introduction to American Government

English:

Element 3B <sup>G</sup>

ENG 210 Enjoying Literature  
or ENG 210W Enjoying Literature

ENG 211 Survey of World Literature I  
or ENG 211WSurvey of World Literature I

ENG 212 Survey of World Literature II  
or ENG 212WSurvey of World Literature II

HON 306W  
or HON 308WHonors Seminar in the Humanities:\_\_\_

ENG 303 Advanced Composition for Teachers

EME 452 Teaching Grammar and Punctuation P-8  
or ENG 410 Grammar, Traditional and Modern

Sciences/Engineering:

BIO 102 Inquiry Biology for Teachers (Element 4) <sup>G</sup>

GLY 102 Earth Science for Elementary Teachers (Element 4) <sup>G</sup>

CHE 104 Inquiry Physical Science for Elementary Teachers  
or PHY 104 Inquiry Physical Science for Elementary Teachers

EDC 314 Engineering in Classroom Context  
or TEC 314 Engineering in Classroom Context

Mathematics:

MAT 112 Algebra with Applications (Element 2) <sup>G</sup>

MAE 201 Mathematical Concepts for P-9 I

MAE 202 Mathematical Concepts for P-9 II

**Total Hours 45**

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**PRAXIS Disclaimer:** Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Certification at (502)-564-5846.

## Special Education/Teaching, Bachelor of Science with a Concentration in LBD-Middle Grade Education (5-9) (B.S.)

Students must see their advisor early in the program.

### Program Requirements

CIP Code: 13.1001

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
EDO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Special Education Teaching majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
CED 499	Clinical VI: The Professional Semester	
<b>Major Requirements</b>		
<i>LBD Core Courses</i>		
SED 260	Language and Speech Disorders of Exceptional Children	3
SED 305	Behavior Disorders	3
SED 356	Methods and Materials for LBD	3
SED 375	Practicum in Special Education	3
SED 445	IEP Transition and Professional Roles in Special Education	3
<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 219	Human Development and Learning	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
SED 270/EDF 204	Technology/Strategies for MSD	3
SED 350/EDF 413	Introduction to Special Education Assessment	3
SED 390/EMS 490	Applied Behavior Analysis	3
EMS 300W	Curriculum and Instructional Design	3
Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	12
<i>Concentrations</i>		
Students must select one of the following Concentrations:		
LBD-Elementary		
LBD-Middle Grade Education (5-9)		33-37
<i>Supporting Course Requirements</i>		
Choose from 18-31 of supporting courses:		
18 hours of Elementary		
27-31 hours of Middle Grade and Area of Emphasis		
<i>Exit Requirements</i>		
PRAXIS Examination:		

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

<b>Total Hours</b>	<b>120-124</b>
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**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EMG 447	Disciplinary Literacy in the Middle Grades	3
Choose from three hours of the following (associated with area of emphasis):		3
EMG 491	Mathematics in the Middle Grades	
EMG 492	Science in the Middle Grades	
EMG 493	Social Studies in the Middle Grades	
EMG 494	English and Communication in the Middle Grades	
<i>Supporting Course Requirements</i>		
MAE 201	Mathematical Concepts for P-9 I	3
MAE 202	Mathematical Concepts for P-9 II	3
EME 301	Mathematical Concepts for P-9 III	3
	or MAE 302	Mathematical Concepts for P-9 III
<i>Area of Emphasis</i>		
Candidates seeking middle grade (5-9) certification must select one 18-22 area of emphasis from the following list and complete the specified courses: <sup>1</sup>		
English and Communications		
Mathematics		
Science		
Social Studies		
<b>Total Hours</b>		<b>33-37</b>

<sup>1</sup>  
See options list under Middle Grade Education (5-9) (p. 182) for a list of courses and block statements. Some emphasis courses are also General Education courses and therefore will count in both areas, reducing total hours to degree.

**PRAXIS Disclaimer:** Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Certification at (502)-564-5846.

## College of Health Sciences

Dr. Daniel Czech, Dean  
Rowlett 203  
(859) 622-1137

Dr. Michael Ballard  
Interim Associate Dean  
Rowlett 204  
(859) 622-1916

## Mission

The mission of the College of Health Sciences is to prepare outstanding health and human service professionals and leaders who contribute to the success and vitality of their communities, the Commonwealth, and the world.

## Vision

The College of Health Sciences will be the premier college that shapes and improves health and well-being, advancing Kentucky and impacting the world!

## Values

- Intellectual vitality: rigor and academic excellence among faculty and students
- Cultural competency: dignity, diversity, and inclusion through culturally sensitive human services and care
- Civic responsibility: stewardship through community, professional service and engagement to enhance quality of life
- Collaboration: inter-professional and cooperative efforts among faculty, staff, students and other stakeholders
- Accountability: characterized by ethical and professional responsibility

## Goals

### EKU Goal 1: Academic Excellence

#### EKU Strategic Direction 1.1 Invest in our Faculty

**CHS SD 1.1.1** The College of Health Sciences (CHS) will support faculty scholarly research and creative endeavors.

#### EKU Strategic Direction 1.2 Promote Innovative Instruction and Programming

**CHS SD 1.2.1** The CHS will assess teaching effectiveness and use the results to enhance instruction.

#### EKU Strategic Direction 1.3 Strengthen Academic Programs

**CHS SD 1.3.1** The CHS will continually assess and strengthen academic programs.

**CHS SD 1.3.2** The CHS will provide nationally recognized, high quality, accredited and approved programs.

### EKU Goal 2: Commitment to Student Success

#### EKU Strategic Direction 2.1 Invest in our Students

**CHS SD 2.1.1** The CHS graduates will meet or exceed national pass rates on licensure certifications and standardized exam results.

**CHS SD 2.1.2** The CHS will support students' scholarly research and creative endeavors.

#### EKU Strategic Direction 2.2 Focus on Strategic Enrollment

**CHS SD 2.2.1** The CHS will demonstrate a commitment to diversity.

#### EKU Strategic Direction 2.3 Increase Efforts to Retain and Graduate Students

**CHS SD 2.3.1** The CHS will assess advising effectiveness and use the results to strengthen advising.

### EKU Goal 3: Institutional Distinction

#### EKU Strategic Direction 3.1 Invest in our Staff

**CHS SD 3.1.1** The CHS will support staff professional development opportunities.

#### EKU Strategic Direction 3.2 Advance the EKU Brand

**CHS SD 3.2.1** The CHS will have a brand and communication strategy.

#### EKU Strategic Direction 3.3 Create a Diverse, and Inclusive University Culture

**CHS SD 3.3.1** The CHS will celebrate faculty, staff and student scholarly research and creative endeavors.

### EKU Goal 4: Financial Strength

#### EKU Strategic Direction 4.1 Optimize Campus Resources

**CHS SD 4.1.1** The Administrative Council for CHS will annually examine measures related to our financial effectiveness to include: workload, class size, and faculty and staff issues to strengthen programs.

#### EKU Strategic Direction 4.2 Increase External Support

**CHS SD 4.2.1** The CHS will engage alumni, friends and other stakeholders.

### EKU Goal 5: Campus Revitalization

**EKU Strategic Direction 5.1** Initiate and complete ECU Revitalization plan, which includes rehabilitation of existing facilities and construction of new ones with a focus on the ECU student experience.

**CHS SD 5.1.1** The CHS will assess classrooms, labs, offices, technology, and student-centered facilities required to support program growth.

### EKU Goal 6: Service to Communities and Region

**EKU Strategic Direction 6.1** Become the 1st Choice Partner in Regional Educational, Economic, Cultural, and Social Development

**CHS SD 6.1.1** Collaborate with the University's regional community partners to promote academic achievement, economic development, and quality of life.

#### EKU Strategic Direction 6.2 Become Nationally Prominent in Fields and Regional Relevance

**CHS SD 6.2.1** The CHS will continue to strengthen quality community and regional partnerships.

**CHS SD 6.2.2** The CHS will continue to bring distinction to our region with nationally recognized, accessible programs to promote engagement and improve health and quality of life.

#### EKU Strategic Direction 6.3 Bring ECU to Our Service Region

**CHS SD 6.3.1** Collaborate with the University's regional community partners to promote academic achievement, economic development, and quality of life. (Same as 6.1.1)

#### EKU Strategic Direction 6.4 Bring Our Service Region to ECU

**CHS SD 6.4.1** CHS will offer college programs, activities, and events to encourage travel to EKU campus that improve health and quality of life.

## Admission Requirements for College

The College of Health Sciences accepts applications from all persons who are qualified for admission to the University. All applicants must provide evidence of their ability to meet the academic standards established by the various programs. Due to enrollment limitations of some programs, applications should be made early. Applications received after the deadline of a program will be processed and admissions recommended on a space available basis. Specific entrance requirements for each program are shown in the departmental sections of this *Catalog*.

## Admission Policies

1. Students must meet requirements and be admitted by the University before being considered for enrollment in programs within the College of Health Sciences. Specific admission criteria are provided under each of the Health Sciences programs. The student is responsible for obtaining information for the application process including department deadlines.
2. Transfer work must be from an accredited institution and with a minimum grade of "C" in major and supporting courses. The applicant must be eligible to return to the last institution attended.
3. Work taken more than eight years previously must be approved by the Dean of the College.
4. In the event that a student is not accepted for a program, the student who wishes to reapply must submit a new application and related materials that will be considered when a new class is accepted.

Students desiring to complete collegiate work required for admission to professional programs may complete this work at any accredited college or university. Students are urged to carefully plan their course of study to be consistent with the individual program's curriculum progression plan of study. Students who plan to complete coursework before declaring a major in a College of Health Sciences program should consult with the individual program directors or with the College of Health Sciences Advisors.

Students who have not reached a decision on a specific health science major may obtain counseling/guidance from individual program directors in the College of Health Sciences or from College of Health Sciences Advisors.

The programs in the College of Health Sciences are designed to prepare graduates for practice in health and human services professions. Most require licensure and/or certification after graduation and prior to practice. A criminal record (excluding minor traffic violations) may make a person ineligible for licensure or certification in these professions. Students with such a history should contact the licensing or certifying body prior to enrollment to determine whether this might be the case.

## Clinical Agency Placement Requirements

Placement in clinical sites for certain programs in the College of Health Sciences requires students to meet specific clinical agency placement requirements. Clinical agency placement requirements for certain programs (particularly those involving direct patient contact and/or practice with children) require a criminal background check and/or a urine drug screen. Students whose results from these screenings do not meet clinical agency placement requirements will be unable to participate in clinical experiences which are required for satisfactory progression and completion of the program. Most clinical agencies and programs where

students may be potentially exposed to blood borne pathogens mandate that students comply with the Hepatitis B vaccination requirement. [see Blood Borne Pathogens and Hepatitis B Statement]. Other requirements may include documentation of tuberculosis screenings indicating student is free of disease, specific immunizations, certifications, licensures, student professional liability insurance purchased through the University [see Student Liability (Malpractice) Insurance], and individual health insurance. Students who have not met clinical agency placement requirements will not be permitted to participate in clinical and laboratory learning experiences mandated for satisfactory progression and completion of the program. Specific requirements for individual programs may be obtained by contacting the departmental office for the program.

## Readmission Policies

After being admitted to one of the programs in the College, students who withdraw or who are unable to progress due to being unsuccessful in one or more courses must submit application for readmission according to the guidelines for the specific program. **Readmission to the program is not guaranteed to any student.**

## Readmission Appeal Process

The student who has been denied readmission may appeal the decision following these guidelines:

1. Notify the chair of the program's readmission committee of the desire to appeal the decision and to provide additional pertinent information to support the appeal. The committee chair will schedule a time for the student to appear before the committee to present the appeal. A student who has agreed to a time for a meeting of the departmental readmission committee and who does not appear at that meeting may forfeit the right to present evidence beyond that furnished in the original application for readmission.
2. The student will be notified within five working days of the committee's decision.
3. If the student is not satisfied with the decision, the student shall schedule an appointment to present the appeal to the Department Chair. The student will be notified within five working days of the Department Chair's decision.
4. If the student is not satisfied with the decision of the Department Chair, the student shall submit a written appeal to the Dean of the College of Health Sciences. If the Dean determines there are extenuating circumstances surrounding the student's request for readmission and/or if the procedure for readmission has not been followed, a meeting of the College's Readmission Committee will be scheduled. A time will be appointed for the student to appear before the committee to present the appeal. A student who has agreed to a time for a meeting of the College Readmission Committee and who does not appear at that meeting may forfeit the right to present evidence beyond that furnished in the original application for readmission.
5. Decisions of the College Readmission Committee are binding. The student will be notified of the decision within five working days.

## Student Agreement Statement

Programs in the College of Health Sciences may require a student to sign an agreement statement that encompasses professional expectations related to the program. This statement is to be signed when the student enters courses in the major.

## Student Liability (Malpractice) Insurance

All students whose programs require participation in clinical learning experiences must purchase and maintain liability insurance through the University during the entire clinical experience. Proof of such insurance coverage must be furnished to the department before the clinical experience is scheduled to begin. The University has arranged for appropriate insurance coverage at a modest cost to the student. Further information may be obtained at the student's major departmental office.

## Accrediting Agencies

### Accreditation Council for Occupational Therapy Education

6116 Executive Boulevard  
Suite 200  
North Bethesda, Maryland 20852-4929

### Commission on Collegiate Nursing Education

655 K Street, NW, Suite 750  
Washington, DC 20001  
(202) 887-6791

### Accreditation Council for Education in Nutrition and Dietetics (ACEND)

**Academy of Nutrition and Dietetics**  
120 South Riverside Plaza, Suite 2190  
Chicago, IL 60606  
(312) 899-0040

### Commission on Accreditation for Health Informatics and Information Management Education

233 N. Michigan Avenue, 21st Floor  
Chicago, IL 60601-5800  
312-233-1100

### Council on Education for Public Health

1010 Wayne Avenue, Suite 220  
Silver Spring, MD 20910  
(202) 789-1050

### National Accrediting Agency for Clinical Laboratory Science

5600 N. River Rd.  
Suite 720  
Rosemont, IL 60018-5119  
847-939-3597 or 773-714-8880

### National Council for Accreditation

**National Recreation and Park Association/Council on Accreditation**  
22377 Belmont Ridge Road  
Ashburn, VA 20148-4501  
703-858-2150

### National Council for the Accreditation of Teacher Education

2010 Massachusetts Ave., NW, Suite 500  
Washington, DC 20036-1023  
202-466-7496

### National Association for Sport and Physical Education

1900 Association Drive  
Reston, VA 22091-1599  
800-213-7193

### National Environmental Health Science and Protection Accreditation Council

2632 SE 25th Avenue, Suite F  
Portland, OR 97202

(503) 235-6047

### Accreditation Commission for Education in Nursing (ACEN)

3343 Peachtree Rd. NE, Suite 850  
Atlanta, GA 30326  
(404) 975-5000 / (fax) (404) 975-5020

## Clinical Facilities

The University maintains formal contracts with many health care human services and educational agencies located throughout Kentucky and the United States. Almost every specialty within the entire health care spectrum is available for use in providing high quality experiences for students enrolled in the programs. A list of cooperating agencies is available through the Office of the Dean.

The University is not liable for, nor is there a fund from which payment can be made for those who are inconvenienced or incur expenses based upon canceled classes, assignments, or clinical placements, etc.

## Bloodborne Pathogens and Hepatitis B Statement

The College of Health Sciences attempts to minimize the risk of exposure to blood borne pathogens for students who will be involved in clinical and laboratory learning experiences where the risk of exposure could occur. To this end, students majoring in clinical programs within the College of Health Sciences where a potential risk of exposure could occur are required to receive education in universal precautions and the Occupational Safety and Health Administration's (OSHA) Bloodborne Pathogens Standard Regulations. Students will be responsible for complying with the Hepatitis B vaccination requirement when indicated before participation in the clinical training phase of their respective programs. [see Clinical Agency Placement Requirements]. The Blood Borne Pathogens Exposure Control Plan is posted on the College of Health Sciences website and should be carefully reviewed. More information regarding specific program requirements may be obtained through the departmental offices, program student handbooks, and other program informational sources.

## Degree Requirements

The students are responsible for selection and registration for courses needed for reasonable progress toward their degree or certificate that will enable the students to satisfy requirements for graduation.

General Academic Information described in Section Five of this *Catalog*, and specific course requirements set forth in the description of curricula, must be met by students completing associate and baccalaureate programs administered by the College of Health Sciences. See programs under each department for major and minor requirements. All first-year students in the College of Health Sciences must enroll in the Student Success Seminar (HSO 100 Student Success Seminar).

## Appeals

Appeals procedures are detailed in the Departmental and University Handbooks and in the department sections.

## Health Sciences Learning Resource Center

### Director

Dr. Raglena Salmans

(859) 622-2091  
Rowlett 312

The Health Sciences Learning Resource Center (HSLRC) is a center for all students in the College of Health Sciences providing resources for student success. The HSLRC is a one stop shop for students, faculty, and staff as a resource consortium. The full-time staff and student workers, work congruently to provide assistance for students to navigate college and the University system. The staff also provide referrals to other EKU resources which students and faculty may not be aware.

- The center includes: audio visuals, manipulative assessments, textbooks for house use, a quiet and group study/homework center with white boards and large tables for use. A full computer lab with printing and color printing available. As well as student success tutorials and workshops.
- Testing for any required admission exams as well as mid-curricular and exit exams for the School of Nursing. The Center may be used for make-up testing when set up by faculty.
- Tutoring is available through our Study Buddy program. Upperclassmen provide tips, encouragement, and guidance to their peers through meeting and discussing concerns and challenges their fellow students have encountered.
- Research assistance is available in the HSLRC with collaboration from the University Library.

## School of Nursing Chair

Dr. Brooke Bentley  
(859) 622-1956  
Rowlett 223

## Associate Chair

Dr. Lisa Jones  
(859) 622-1941  
Rowlett 223

## Faculty

M. Adams#Johnson, B. Bentley, M. Bradshaw, J. Brocato, C. Catron, C. Edwards, S. Evans, W. France, M. Gibson, W. Harmon, B. Holleran, R. Hovermale, A. Hume, R. Janes, A. Jones, L. Jones, T. Loan, J. Merrick, Q. Moore, S. Muhlenkamp K. New, N. Owens, J. Pinheiro, G. Purdue, F. Sands, C. Short, A. Wood, P. Woods, and M. Zoellers.

The programs in the School of Nursing include Associate of Science in Nursing, Bachelors of Science in Nursing, Masters of Science in Nursing and Doctor of Nursing Practice.

The mission of the school is to educate nurses at the Associate, Baccalaureate, Masters and Doctorate levels who work in interprofessional environments to promote health and well-being for diverse populations across the Commonwealth, country and world.

## Definition of Associate of Applied Science in Nursing

Associate of Applied Science in Nursing (AAS) provides the basic education necessary to become a registered nurse. After graduation with an Associate of Applied Science Degree and successful completion of the National Council of State Boards of Nursing (NCLEX-RN), graduates

are prepared to practice in a variety of care settings. AAS incorporates nursing knowledge, knowledge of key biological and social sciences and the study of humanities. Graduates of the AAS program exhibit competencies of human flourishing, nursing judgment, professional identity and the spirit of inquiry.

## Student Learning Outcomes

Upon completion of the program, the AAS graduate will:

- Human Flourishing: "Advocate for patients and families in ways that promote their self-determination, integrity and ongoing growth as human beings" (NLN, 2010, p. 38).
  - a. Incorporate culturally competent, individualized plans of care focusing on services and activities that promote independence, maintain or restore health, or support a peaceful death.
- Nursing Judgment: "Make judgements in practice, substantiated with evidence, that integrate nursing science in the provision of safe, quality care and promote the health of patients within a family and community context" (NLN, 2010, p. 38).
  - a. Utilize the nursing process as a basis for clinical judgment to optimize outcomes of care for the patient, family and community.
  - b. Advocate for access and quality of care for patients
  - c. Apply evidence-based practice to support clinical decision making in the provision of safe quality care.
- Professional Identity: "Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy, and safe quality care for diverse patients within a family and community context" (NLN, 2010, p. 38).
  - a. Exhibit professional behaviors/practice as defined by the ethical, legal and regulatory frameworks of nursing.
  - b. Establish and maintain effective/therapeutic communication in collaboration with patients, families, significant others and members of the health care team.
  - c. Use information and technology to communicate, manage knowledge, mitigate error and support decision making.
- Spirit of Inquiry: "Examine evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions and new insights to improve the quality of care for patients, families and communities" (NLN, 2010, p. 38).
  - a. Utilize evidence-based literature/research for use in nursing practice.

## Admission Requirements and Procedures

All students who are admitted to EKU and declare their major as Associate of Applied Science in Nursing are admitted as pre-associate degree nursing majors. However, admission to the University does not guarantee admission to the Associate of Applied Science in Nursing Program. Students are eligible to be considered for admission to the Associate of Applied Science in Nursing Program only after having been admitted to the University. Applications for the Associate Degree Nursing program are available through the department office or online at [www.nursing.eku.edu](http://www.nursing.eku.edu)

Applicants are eligible to be considered for admission who have:

1. Met University requirements for proficiency in English, reading and mathematics.
2. Met the Pre-College Curriculum requirements.
3. A minimum high school or college (institutional) GPA of 2.5 on a 4.0 scale.

- Grades of "C" or better in any supporting courses that have been completed. Some support courses (BIO 307, BIO 308, and BIO 273 or MLS 209) must have been taken within five years prior to the time application is made for admission, unless an exception has been approved by the department.
- Completed the Nursing Assessment (A2) exam with a minimum score of 75 in specified areas of Reading, Vocabulary, Grammar and Math.
- In addition to the academic criteria required for admission, applicants must meet the standards written into the Commonwealth of Kentucky Nurse Practice Act. Specifically, the Nurse Practice Act requires that each student be of good moral and ethical character, good mental and physical health, and be academically qualified to fulfill the role and responsibilities of a person licensed to practice as a professional nurse. Students must meet all clinical agency placement requirements.

Applications are considered for the fall semester (received by March 31) and for the spring semester (received by October 31). Applications received after the deadline will be processed on a space availability basis. The Associate of Applied Science in Nursing Degree Admissions Committee will evaluate each applicant's academic history and select those applicants who are the most academically qualified. Should there be more qualified applicants than spaces available, admission becomes competitive and applicants will be ranked according to the admission scoring rubric found on the Department's website. Admission to the program is limited and completion of eligibility criteria does not ensure admission into the program.

### Students Transferring from Another Nursing Program

Transfer students must meet the following criteria in addition to admission criteria of Eastern Kentucky University and the School of Nursing:

- The nursing credits transferred must be comparable to Associate Degree Program nursing credits for a maximum of 16 semester hours credit.
- A complete course outline and/or syllabi must be submitted for each nursing course being evaluated for transfer credit.
- Transfer credits must meet passing standards of the nursing program from which they are transferred.
- Transfer credits must be from a nationally accredited program. Each transfer student's application will be evaluated on an individual basis by the Department Chair and the Associate Degree Admissions Committee.

### Progression in the Program

In order for students to follow the established progression of the program sequence, they must:

- Meet all prerequisites.
- Maintain an institutional GPA of 2.0 on a 4.0 scale.
- Complete all major courses and supporting courses with a "C" or better.

### Clinical Requirements

Transportation to all clinical experiences is the responsibility of the student. Students are expected to adhere to all program and clinical agency policies and must meet all clinical agency placement requirements. To be compliant with Joint Commission regulations, clinical agency contractual agreements, and ensure a safe clinical

environment the following items are required before a student can progress to a clinical experience:

- Proof of professional liability insurance purchased through the University.
- Proof of CPR for the Health Care Professional.
- Proof of Rubella, Measles (Rubeola), and Mumps immunity.
- Proof of Hepatitis B immunity.
- Proof of negative Tuberculosis screening.
- Proof of Varicella immunity.
- Documentation of adult TDaP vaccine (Tetanus, Diphtheria, Acellular Pertussis)
- Documentation of annual influenza vaccine.
- Documentation of full COVID vaccination.
- Documentation of the CHS-approved Criminal Background Check.
- Documentation of the CHS-approved Drug Screening.
- Proof of Personal Health Insurance.
- Other documentation as required by specific clinical facilities.

### Readmission Policies and Procedures

A student who fails to progress in the nursing curriculum is dismissed from the program and must apply and be processed through the Admissions/Readmission Committee. This committee represents the Associate Degree Nursing Program and has the authority in readmission decisions for the department. Readmission to a nursing course is not guaranteed to any student. The student is advised to refer to the Department's Student Handbook for specific procedures concerning readmission.

### Bachelor's

- Post-Baccalaureate 2nd Degree Concentration, Bachelor of Science in Nursing (B.S.N.) (p. 196)
- Pre-RN Nursing, Bachelor of Science in Nursing (B.S.N.) (p. 197)
- R.N. to B.S.N. Pathway, Bachelor of Science in Nursing (B.S.N.) (p. 200)

### Associate's

- Nursing, Associate of Applied Science (A.A.S.) (p. 196)

### Courses

#### NSC 114. Nursing Concepts I. (5 Credits)

I, II. Formerly NUR 114. Prerequisite: Admission to the Associate Degree Nursing Program. Corequisite: NSC 114C. Provides fundamental theoretical nursing concepts. Student learning outcomes are human flourishing, nursing judgment, professional identity, and spirit of inquiry. Credit will not be awarded for both NUR 114 and NSC 114.

#### NSC 114C. Nursing Concepts Clinical. (3 Credits)

I II Formerly NUR 114C. Prerequisite: Admission to the Associate Degree Nursing Program. Corequisite: NSC114. This course provides application of fundamental nursing concepts in the laboratory and clinical settings. Credit will not be awarded for both NUR 114C and NSC 114C.

**NSC 124. Medical-Surgical Nursing I. (3 Credits)**

I, II. Formerly NUR 124. Prerequisites: BIO 307, HSO 100, NSC114, 114C and ENG 101 or 101R, each with a grade of "C" or better. Corequisite: NSC 124C. Builds upon previously learned concepts and skills. Provides theories and concepts for applying the nursing process while caring for patients experiencing selected health issues. Credit will not be awarded for both NUR 124 and NSC 124.

**NSC 124C. Medical-Surgical Nursing I Clinical. (2 Credits)**

I,II. Formerly NUR 124C. Prerequisite: BIO 307, HSO 100, NSC 114 & 114C and ENG 101 or 101R, each with a grade of "C" or better. Corequisite: NSC 124. This course provides application of nursing concepts in the clinical setting while caring for patients experiencing selected health issues. Credit will not be awarded for both NUR 124C and NSC 124C.

**NSC 126. Mental Health Nursing. (2 Credits)**

I,II. Formerly NUR 234. Prerequisites: BIO 307, HSO 100, NSC 114, and ENG 101 or 101R, each with a minimum grade of "C". NSC 114C with a grade of "S". Corequisites: NSC 124, 124C, and 126C. This course provides application of nursing concepts in the clinical setting while caring for patients experiencing selected health issues. Credit will not be awarded for both NUR 234 and NSC 126.

**NSC 126C. Mental Health Nursing Clinical. (1 Credit)**

I, II. Formerly NUR 234C. Prerequisites: BIO 307, HSO 100, NSC 114, and ENG 101 or 101R, each with a minimum grade of "C". NSC 114C with a grade of "S". Corequisites: NSC 124, 124C, and 126. Application of the nursing process when caring for patients with mental health needs. Credit will not be awarded for NUR 234C and NSC 126C.

**NSC 223. Medical-Surgical Nursing II. (4 Credits)**

I, II. Formerly NUR 232. Prerequisites: BIO 308, NSC 124, 126, ENG 102 or 102R, and PSY 200 or SOC 131, each with a minimum grade of "C". NSC 124C and 126C with a grade of "S". Corequisites: NSC 223C, 225, and 225C. Provides theories and concepts for applying nursing judgment while caring for adult and pediatric patients experiencing selected complex health issues. Credit will not be awarded for NUR 232 and NSC 223.

**NSC 223C. Medical-Surgical Nursing II Clinical. (2 Credits)**

I,II. Formerly NUR 232C Prerequisite: BIO 308, NSC 124, 126, ENG 102 or 102R, and PSY 200 or SOC 131, each with a minimum grade of "C". NSC 124C and 126C with a grade of "S". Corequisites: NSC 223, 225, 225C. This course provides application of nursing concepts in the clinical setting when caring for adult patients experiencing selected complex health issues. Credit will not be awarded for both NUR 232C and NSC 223C.

**NSC 225. Family Nursing. (4 Credits)**

I, II. Prerequisite: BIO 308, NSC 124 and 126, ENG 102 or 102R and SOC 131, each with a minimum grade of "C". NSC 124C and 126C with a grade of "S". Corequisites: NSC 223, 223C, and 225C. This course provides application of nursing concepts for obstetric and pediatric patients experiencing selected complex health issues.

**NSC 225C. Family Nursing Clinical. (2 Credits)**

I, II. Prerequisite: BIO 308, NSC124 and 126, ENG 102 or 102R and PSY 200 or SOC 131, each with a minimum grade of "C". NSC 124C and 126C with a grade of "S". Corequisites: NSC 223, 223C, and 225. This course provides application of nursing concepts in the clinical setting when caring for obstetric and pediatric patients experiencing selected complex health issues. This clinical course is taken over 2 parts of term during the same semester. Credit will only be awarded at the end of the term.

**NSC 232. Health Assessment and Promotion. (2 Credits)**

I, II. Prerequisites: taken in semester immediately prior to expected enrollment in NSC 380 and students must meet minimum program GPA requirements of 2.5 and department approval. Corequisite: NSC 232L, 242, and 252. Students repeating NSC 232 must also enroll in NSC 232L and the most recent grade in these two corequisites will be applied toward student's GPA. Development of assessment and health promotion skills to be used with clients throughout the life cycle.

**NSC 232L. Health Assessment and Promotion. (1 Credit)**

Prerequisites: GPA 2.5 and Departmental approval. Corequisite: NSC 232, 242 and 252. Students repeating NSC 232L must also enroll in NSC 232 and the most recent grade in these two corequisites will be applied toward student's GPA. Development of assessment and health promotion skills to be used with clients throughout the life cycle.

**NSC 240. Med-Surgical Nursing III. (4 Credits)**

I, II. Formerly NUR 240. Prerequisites: NSC 223, 225, and BIO 273 or MLS 209 (with a minimum grade of "C"), NSC 223C and 225C with a minimum grade of S. Corequisite: NSC 240C, 250, and 255. Students repeating NSC 240 must also enroll in NSC 240C and NSC 250. The most recent grade in these corequisites will be applied towards student's GPA. Provides theory and concepts for applying nursing judgment for the care of groups of patients experiencing selected complex health issues. Credit will not be awarded for NUR 240 and NSC 240.

**NSC 240C. Med-Surgical Nurs III Clinical. (3 Credits)**

I, II. Formerly NSC 241C. Prerequisite: NSC 223, 225 and BIO 273 or MLS 209, each with a minimum grade of "C"; NSC 223C and 225C with a minimum grade of "S". Corequisite: NSC 240, 250, and 255. Students repeating NSC 240C must also enroll in NSC 240 and NSC 250. The most recent grade in these corequisites will be applied toward student's GPA. Clinical immersion synthesizing nursing judgment in caring for groups of patients experiencing complex health issues. Must be taken during the last semester of the AAS program. Credit will not be awarded for both NSC 240C and NSC 241C.

**NSC 242. Communication in Nursing. (3 Credits)**

I, II. Prerequisite: sophomore standing and minimum 2.5 cumulative GPA requirement or department approval. Corequisite: NSC 232, 232L, and 252. Students repeating NSC 242 must also enroll in NSC 232 and NSC 232L. The most recent grade in these corequisites will be applied toward student's GPA. Therapeutic communication processes, theories, and techniques for building nurse client relationships throughout the life cycle. Development of beginning skills in nursing informatics and oral communication. Credit will not be awarded for both NSC 242 and NSC 243.

**NSC 243. Communication in Healthcare. (3 Credits)**

I, II. Prerequisite: department approval. Communication processes, theories, and techniques for building professional, therapeutic relationships throughout the life cycle. Introduction to skills in informatics and oral communication. Credit will not be awarded for both NSC 242 and NSC 243.

**NSC 250. NCLEX Review. (1 Credit)**

(I) I, II Prerequisites: NSC 223, 225, BIO 273 or MLS 209 each with a minimum grade of "C"; NSC 223C and NSC 225C each with a minimum grade of "S". Corequisites: NSC 240, NSC 240C, and NSC 255. Provides a framework for interpreting structural and functional changes associated with diseases, facilitating critical thinking and decision-making required of the associate degree nurse. Students repeating NSC 250 must also enroll in NSC 240 and 240C and the most recent grades in these two corequisites will be applied toward student's GPA.

**NSC 252. Intro to Professional Nursing. (3 Credits)**

I, II. Prerequisite: sophomore standing and minimum 2.5 cumulative GPA requirement or department approval. Corequisite: NSC 232, 232L, and 242. Students repeating NSC 252 must also enroll in NSC 232 and NSC 232L. The most recent grade in these corequisites will be applied toward student's GPA. Nursing science foundation using selected concepts and constructs. Emphasis on past and current knowledge in the formulation of nursing as a basic and applied science. Application of epidemiology to nursing practice.

**NSC 255. Trends and Issues in Nursing. (2 Credits)**

I, II. Formerly NUR 255. Prerequisites: NSC 223 and 225; BIO 273 or MLS 209 each with a minimum grade of "C"; NSC 223C and 255C each with a minimum grade of "S". Corequisite: NSC 240, 240C and 250. Focuses on current issues and trends in nursing. Ethical, legal, and professional responsibilities and career opportunities are examined. Students repeating NSC 255 must also enroll in NSC 240 and 240C and the most recent grades in these two corequisites will be applied toward student's GPA. Credit will not be awarded for both NUR 255 and NSC 255.

**NSC 262. Professional Nursing Concepts. (4 Credits)**

I, II, A. Prerequisite: Admission to the BSN Program- Second Degree Option or departmental approval. Corequisite: NSC 232 and 232L. Introduction to concepts and theories of professional nursing practice. Development of beginning skills for building nursing-patient relationships.

**NSC 300. Nursing Externship. (1-6 Credits)**

I, II. Prerequisite: departmental approval. Integrates practice and education through a health care based service model and collaborative partnerships to enhance clinical nursing competencies.

**NSC 330. Clinical Drug Therapy. (3 Credits)**

I, II, A. Prerequisites: NSC 332, 350, and 380 each with a minimum grade of "C". NSC 332L with a minimum grade of "S". Corequisite: NSC 386 and 386C. Foundation for applying drug knowledge in client care, with emphasis on increasing therapeutic effects and decreasing adverse effects. Includes study of selected drug classes, prototypes and individual drugs.

**NSC 331. Clinical Pharmacology for RN. (3 Credits)**

A. Prerequisite: RN status. Builds on a basic foundation of drug knowledge with an emphasis on both the therapeutic and adverse effects of drug therapy. Includes the study of selected individual drugs, drug classes, and current prototypes.

**NSC 332. Health Assessment and Promotion II. (1 Credit)**

I, II, A. Prerequisites: NSC 232, 242, and 252 with a minimum grade of "C"; NSC 232L with a minimum grade of "S", and admission to the BSN major. Corequisites: NSC 332L, 350, 380, and 380C. Students repeating NSC 332 must also enroll in NSC 332L and the most recent grade in these two corequisites will be applied toward student's GPA. Development of physical assessment skills and evaluation of health patterns for clients throughout the life cycle.

**NSC 332L. Health Assessment and Promotion. (1 Credit)**

Prerequisites: NSC 232, 242 and 252 all with a minimum grade of "C"; NSC 232L with a minimum grade of "S", and admission to the BSN Program. Corequisite: NSC 332, 350, 380 and 380C. Students repeating NSC 332L must also enroll in NSC 332 and the most recent grade in these two corequisites will be applied toward student's GPA. Development of physical assessment skills and evaluation of health patterns for clients throughout the life cycle.

**NSC 350. Pathophysiology. (3 Credits)**

A. Prerequisites: NSC 232, 242, and 252 each with a minimum grade of "C", NSC 232L with a minimum grade of "S", and admission to the baccalaureate nursing major. Corequisite: NSC 332, 332L, 380, and 380C. Provides a framework for interpreting structural and functional changes associated with disease, facilitating critical thinking and decision making required of the professional nurse.

**NSC 370. Health Disparities. (3 Credits)**

A. Prerequisite: junior standing or departmental approval. Explores the social, economic, political and historical context of health disparities experienced by groups with an emphasis on racial/ethnic, gender and socioeconomic aggregates. Explores contributing factors and potential solutions to domestic and global health disparities.

**NSC 378. Short Topics in Clinical Nursing. (1-3 Credits)**

A. Prerequisites: NSC 392, 392C, 396 and 396C. Provides enrichment learning for upper division nursing students and practicing registered nurses. Each segment of the course describes the current trends in nursing theory and practice including relevant pathologic processes and usual nursing management. Emphasis on in-depth study of current interest topics.

**NSC 380. Adult Health Nursing I. (2 Credits)**

I, II. Prerequisites: NSC 232, 242, and 252 all with a minimum grade of "C"; NSC 232L with a minimum grade of "S" and admission to the BSN program. Corequisite: NSC 332, 332L, 350 and 380C. Students repeating NSC 380 must also enroll in NSC 380C and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 380C. Adult Health Nursing I Clinical. (2 Credits)**

I, II. Prerequisites: NSC 232, 242 and 252, all with a minimum grade of "C"; NSC 232L with a minimum grade of "S" and admission to the BSN Program. Corequisite: NSC 332, 332L, 350 and 380. Students repeating NSC 380C must also enroll in NSC 380 and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 381. Perspectives in Professional Nursing I. (3 Credits)**

A. Prerequisites: RN status and admission to the RN-BSN option. Transition to the professional nursing role for the RN student emphasizing foundational concepts of professional nursing practice.

**NSC 383. Perspectives in Professional Nursing II. (3 Credits)**

(3) Prerequisite: NSC 381. Transition to the professional nursing role for the RN student emphasizing the knowledge development of concepts and theories essential for professional practice.

**NSC 385. Perspectives in Professional Nursing III. (4 Credits)**

(4) A. Prerequisite: NSC 383. Advanced concepts and skills for professional nursing practice.

**NSC 386. Adult Health Nursing II. (7 Credits)**

I, II, A. Prerequisites: NSC 332, 350, and 380, all with a minimum grade of "C"; NSC 332L and 380C with a minimum grade of "S". Corequisites: NSC 330 and 386C. Students repeating NSC 386 must also enroll in NSC 386C and the most recent grade in these two corequisites will be applied toward student's GPA.

**NSC 386C. Adult Health Nursing II. (3 Credits)**

I, II, A. Prerequisites: NSC 332, 350 and 380, all with a minimum grade of "C"; NSC 380C and 332L with a minimum grade of "S"; Admission to the BSN Program. Corequisite: NSC 330 and 386. Students repeating NSC 386C must also enroll in NSC 386 and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 390W. Research for EBNP. (2 Credits)**

I, II, A. Prerequisites: STA 215, or 270, or SOC 232 with a minimum grade of "C"; ENG 102, 102R, 105(B), HON 102. Applies research findings for evidence-based nursing practice.

**NSC 392. Mental Health Nursing. (3 Credits)**

I, II, A. Prerequisites: NSC 330 and 386, each with a minimum grade of "C"; NSC 386C with a minimum grade of "S". Corequisite: NSC 392C. Students repeating NSC 392 must also enroll in NSC 392C and the most recent grade in these two corequisites will be applied toward student's GPA.

**NSC 392C. Mental Health Nursing Clinical. (2 Credits)**

I, II, A. Prerequisites: NSC 330 and 386, each with a minimum grade of "C"; NSC 386C with a minimum grade of "S". Corequisite: NSC 392. Students repeating NSC 392C must also enroll in NSC 392CC and the most recent grade in these two corequisites will be applied toward student's GPA. Uses the nursing process to develop practice solutions for clients throughout the life cycle with selected mental health issues.

**NSC 396. Family Health Nursing. (5 Credits)**

I, II, A. Prerequisites: NSC 330 and 386, each with a minimum grade of "C"; NSC 386C with a minimum grade of "S". Corequisite: NSC 396C. Students repeating NSC 392 must also enroll in NSC 392C and the most recent grade in these two corequisites will be applied toward student's GPA. Uses the nursing process to develop practice solutions for families during childbearing and child rearing experience.

**NSC 396C. Family Health Nursing. (2 Credits)**

I, II. Prerequisites: NSC 330 and 386, each with a minimum grade of "C"; NSC 386C with a minimum grade of "S". Corequisite: NSC 396. Students repeating NSC 396C must also enroll in NSC 396 and the most recent grade in these two corequisites will be applied toward student's GPA. Uses the nursing process to develop practice solutions for families during childbearing and child rearing experience. This clinical course is taken over 2 parts of term during the same semester. Credit will only be awarded at the end of the term.

**NSC 440. Leadership and Management. (3 Credits)**

A. Prerequisites: RN status and admission to the RN-BSN option. An overview of leadership and management theory in health care explores the leadership role of nursing. Strategies for facing challenges, promoting cost-effective health care, and promoting leadership success in the dynamic health care system.

**NSC 442. Complex Health Systems. (3 Credits)**

(3) A. Prerequisites: NSC 440, 445, 486, each with a minimum grade of "C". Corequisite: NSC 442C. Synthesis of professional nursing competencies and concepts to address human diversity and manage care in today's complex health systems.

**NSC 442C. Complex Health Systems. (2 Credits)**

(2) Prerequisites: NSC 440, 445, NSC and 486, each with a minimum grade of "C". Corequisite: NSC 442. Synthesis and performance of professional nursing care competencies to address human diversity and manage care in today's complex health systems.

**NSC 445. Professional Role Transitions. (2 Credits)**

A. Prerequisites: RN status and admission to the RN-BSN option. Role development seminar for RNs. Critical analysis of trends which shape professional nursing practice. Analysis of strategies for instituting change in various health care delivery systems.

**NSC 480. Health Care Leadership. (3 Credits)**

I, II. Prerequisites: NSC 390W, 392, and 396 each with minimum grades of "C"; NSC 392C and 396C with a minimum grade of "S". An overview of leadership and management theory within nursing including legal, ethical and economic concepts. Prepares students to assume leadership in dynamic health care systems to promote comprehensive, cost effective health care.

**NSC 484. Adult Health Nursing III. (2.5 Credits)**

I, II. Prerequisites: NSC 390W, 392 and 396, with minimum grade of "C"; NSC 392C and 396C with a minimum grade of "S". Corequisite: NSC 484C. Students repeating NSC 484 must also enroll in NSC 484C and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 484C. Adult Health III Clinical. (2.5 Credits)**

I, II, A. Prerequisites: NSC 390W, 392 and 396, all with a minimum grade of "C"; NSC 392C and 396C with a minimum grade of S. Corequisite: NSC 484. Students repeating NSC 484C must also enroll in NSC 484 and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 486. RN Public Health Nursing. (3 Credits)**

(3) Prerequisite: NSC 385 and 390W, each with a minimum grade of "C". Synthesizes nursing concepts and applies the nursing process to develop practice partnerships with communities and their subsystems.

**NSC 487. Public Health Nursing. (2.5 Credits)**

I, II, A. Prerequisite: NSC 390W, 392 and 396, all with a minimum grade of "C"; NSC 392C and 396C with a minimum grade of "S". Corequisite: NSC 487C. Students repeating NSC 487 must also enroll in NSC 487C and the most recent grade in these two corequisites will be applied toward student's GPA. Synthesizes nursing concepts and applies the nursing process to develop practice partnerships with communities and their subsystems.

**NSC 487C. Public Health Nursing. (2.5 Credits)**

I, II, A. Prerequisite: NSC 390W, 392 and 396, all with a minimum grade of "C"; NSC 392C and 396C with a minimum of "S". Corequisite: NSC 487. Students repeating NSC 487C must also enroll in NSC 487 and the most recent grade in these two corequisites will be applied toward student's GPA. Synthesizes nursing concepts and applies the nursing process to develop practice partnerships with communities and their subsystems.

**NSC 492. Complex Client Health Care. (2 Credits)**

I, II. Prerequisites: NSC 480, 484, and 487 each with a minimum grade of "C"; NSC 484C and 487C with a minimum grade of "S". Corequisite: NSC 492C, 495, and 496. Students repeating NSC 492 must also enroll in NSC 492C and 496. The most recent grade in these corequisites will be applied toward student's GPA. Synthesizes nursing competencies to manage complex health problems, integrating legal, ethical and economic concepts.

**NSC 492C. Complex Client Health Care Clinical. (3 Credits)**

I, II, A. Prerequisites: NSC 480, 484 and 487 each with a minimum grade of "C"; NSC 484C and 487C with a minimum grade of "S". Corequisite: NSC 492 and 495, and 496. Students repeating NSC 492C must also enroll in NSC 492 and 496. The most recent grade in these two corequisites will be applied toward student's GPA. Synthesizes nursing competencies to manage complex health problems, integrating legal, ethical and economic concepts.

**NSC 495. Professional Role Transition. (2 Credits)**

I, II. Prerequisite: NSC 480, 484, and 487 each with minimum grades of "C", NSC 484C and 487C with minimum grade of "S". Corequisite: NSC 492, 492C and 496. Students repeating NSC 495 must also enroll in NSC 492, 492C, and 496. The most recent grade in these corequisites will be applied toward student's GPA. Role development seminar emphasizing refinement of oral presentation skills. Critical analysis of role theory, political, economic and socio-ethical systems which shape nursing practice. Analyzes strategies for instituting change in the health care delivery system.

**NSC 496. Application of Nursing Theory. (2 Credits)**

I, II. Prerequisites: NSC 480, 484, and 487 each with minimum grades of "C", NSC 484C and 487C with minimum grade of "S". Corequisites: NSC 492, 492C and 495. Students repeating NSC 496 must also enroll in NSC 492 and 492C. The most recent grade in these corequisites will be applied toward student's GPA. Facilitates synthesis of nursing knowledge and strengthens the student's ability to apply theory to specific patient situations. Patient case situations from all nursing clinical areas are utilized.

**NSC 498. Independent Study. (1-6 Credits)**

A. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. Directed study or research on an issue or area of interest to nursing. May be retaken to a maximum of six hours.

**NSC 500. Early Childhood Health Care. (3 Credits)**

A. Prerequisite: education major or instructor approval. Focuses on the development of competencies necessary for health management of young children (ages birth through five years) with special health care needs. Appropriate for non-health care professionals in the community or classroom.

## Nursing, Associate of Applied Science (A.A.S.)

### Program Requirements

CIP Code: 51.3801

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		15
Elements 1A and 1B with a grade of "A" or "B" of the following:		
ENG 101	Reading, Writing, and Rhetoric	
ENG 102	Research, Writing, and Rhetoric	
ENG 105	First Year Writing Seminar	
Any Element 3A or 3B		
Choose from one of the following:		
SOC 131	Introductory Sociology	
PSY 200	Introduction to Psychology (Element E-5B) <sup>G</sup>	
Choose from one of the following:		
Element 2 <sup>G</sup>		
Element 4 <sup>G</sup>		
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1

**Major Requirements***Core Courses*

NSC 114	Nursing Concepts I	5
NSC 114C	Nursing Concepts Clinical	3
NSC 124	Medical-Surgical Nursing I	3
NSC 124C	Medical-Surgical Nursing I Clinical	2
NSC 126	Mental Health Nursing	2
NSC 126C	Mental Health Nursing Clinical	1
NSC 223	Medical-Surgical Nursing II	4
NSC 223C	Medical-Surgical Nursing II Clinical	2
NSC 225	Family Nursing	4
NSC 225C	Family Nursing Clinical	2
NSC 240	Med-Surgical Nursing III	4
NSC 240C	Med-Surgical Nurs III Clinical	6
NSC 250	NCLEX Review	1
NSC 255	Trends and Issues in Nursing	2
<i>Supporting Course Requirements</i>		
BIO 307 & BIO 308	Human Anatomy and Physiology I and Human Anatomy and Physiology II	6
BIO 273 or MLS 209	Clinical Microbiology or Microbiology for Health Sciences	3-4
Choose from one of the following: (Element E-5A or B)		
SOC 131	Introductory Sociology	
PSY 200	Introduction to Psychology <sup>G</sup>	

**Total Hours** **66-67**

**G**

Course also satisfies a General Education element. Hours are included within the General Education requirement above.

## Post-Baccalaureate 2nd Degree Concentration, Bachelor of Science in Nursing (B.S.N.)

### Plan for B.S.N. Second Degree Concentration

The School of Nursing offers students who already hold a non-nursing bachelor's degree from a regionally accredited institution the opportunity to complete the Bachelor of Science in Nursing degree in a specially sequenced progression plan for second-degree students. Second degree students must have completed supporting course requirements

Code	Title	Hours
BIO 273 or MLS 209	Clinical Microbiology or Microbiology for Health Sciences	4
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
NFA 201	Essentials of Nutrition	3
STA 215	Introduction to Statistical Reasoning	3
Or approved substitutions prior to admission to the Second Degree Concentration nursing major		

Students with a non-nursing bachelor's degree who apply for admission are admitted as pre-nursing second bachelor's degree majors. Admission as a pre-nursing second bachelor's degree student does not guarantee admission to the B.S.N. Second Degree Concentration major. Classes

are admitted one time per year. Spaces are limited and admission is competitive and based on a review of all required material submitted with the application packet and the entire academic history.

For additional admission information please refer to the Selection Criteria at: <https://nursing.eku.edu/baccalaureate-programs> (<https://nursing.eku.edu/baccalaureate-programs/>)

## Clinical Requirements:

Transportation to all clinical experiences is the responsibility of the student. Students are expected to adhere to all program and clinical agency policies and must meet all clinical agency placement requirements. To be compliant with Joint Commission regulations, clinical agency contractual agreements, and ensure a safe clinical environment the following items are required before a student can progress to a clinical experience:

1. Proof of professional liability insurance purchased through the University.
2. Proof of CPR for the Health Care Professional.
3. Proof of Rubella, Measles (Rubeola), and Mumps immunity.
4. Proof of Hepatitis B immunity.
5. Proof of negative Tuberculosis screening.
6. Proof of Varicella immunity.
7. Documentation of adult TDaP vaccine (Tetanus, Diphtheria, Acellular Pertussis)
8. Documentation of annual influenza vaccine.
9. Proof of full vaccination for Covid 19.
10. Documentation of the CHS-approved Criminal Background Check.
11. Documentation of the CHS-approved Drug Screening.
12. Proof of Personal Health Insurance.
13. Other documentation as required by specific clinical facilities.

## Program Requirements

CIP Code: 51.3801

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education (waived for Post-Baccalaureate Students)		
Student Success Seminar (waived for Post-Baccalaureate Students)		
Writing Intensive Course (waived for Post-Baccalaureate Students)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - BSN 2nd degree majors will fulfill the ACCT with the following. (Credit hours are incorporated into Major requirements below.)		
NSC 492	Complex Client Health Care	
<b>Major Requirements</b>		
<i>Core Courses</i>		
NSC 232	Health Assessment and Promotion	2
NSC 232L	Health Assessment and Promotion	1

NSC 262	Professional Nursing Concepts	4
NSC 330	Clinical Drug Therapy	3
NSC 332	Health Assessment and Promotion II	1
NSC 332L	Health Assessment and Promotion	1
NSC 350	Pathophysiology	3
NSC 380	Adult Health Nursing I	2
NSC 380C	Adult Health Nursing I Clinical	2
NSC 386	Adult Health Nursing II	7
NSC 386C	Adult Health Nursing II	3
NSC 390W	Research for EBNP	2
NSC 392	Mental Health Nursing	3
NSC 392C	Mental Health Nursing Clinical	2
NSC 396	Family Health Nursing	5
NSC 396C	Family Health Nursing	2
NSC 480	Health Care Leadership	3
NSC 484	Adult Health Nursing III	2.5
NSC 484C	Adult Health III Clinical	2.5
NSC 487	Public Health Nursing	2.5
NSC 487C	Public Health Nursing	2.5
NSC 492	Complex Client Health Care	2
NSC 492C	Complex Client Health Care Clinical	3
NSC 495	Professional Role Transition	2
NSC 496	Application of Nursing Theory	2
<i>Supporting Course Requirements</i>		
BIO 307	Human Anatomy and Physiology I	3
BIO 273	Clinical Microbiology	3-4
or MLS 209	Microbiology for Health Sciences	
BIO 308	Human Anatomy and Physiology II	3
NFA 201	Essentials of Nutrition	3
Choose from one of the following:		3-4
STA 215	Introduction to Statistical Reasoning	
STA 270	Applied Statistics	
SOC 232	Social Statistics	
Approved substitutions		
<b>Total Hours</b>		<b>80-82</b>

## Pre-RN Nursing, Bachelor of Science in Nursing (B.S.N.)

The baccalaureate nursing program is based upon the belief that preparation for professional nursing encompasses a broad liberal, general, and professional education. The mission of the School of Nursing is to educate nurses at the Associate, Baccalaureate, Masters and Doctorate levels who work in inter-professional environments to promote health and well-being for diverse populations across the Commonwealth, country and world.

## Professional Nursing Practice Outcomes

Upon completion of the baccalaureate nursing program the BSN graduate:

1. Treats patients as holistic, unique and self-directive with the right to make decisions for themselves concerning health matters.

2. Uses the nursing process to provide, manage, and evaluate culturally competent primary, secondary, and tertiary prevention for diverse clients across the life span in a variety of settings.
3. Uses evidence-based nursing practice, critical thinking, research methodologies, informatics, and healthcare technology to provide therapeutic interventions, predict outcomes, and influence the delivery of health care.
4. Assumes a leadership role in health care by communicating and collaborating with patients, health care professionals, and health care systems.
5. Supports safe, quality, responsible, and economic interdisciplinary health care as a consumer and sociopolitical advocate within multiple health care systems.
6. Promotes the ethical and legal practice of professional nursing.
7. Demonstrates self-care, professionalism, accountability, and competence in nursing practice, with a commitment to advancing the profession of nursing and respecting clients' rights to self-direction and decision making.

## Specific Degree Requirements for Bachelor of Science in Nursing Degree

In addition to the general requirements for the baccalaureate degree, students must earn a grade of "C"/2.0 or better in all nursing and supporting courses.

## Admission and Progression Requirements

All students who are accepted by EKU's Admissions Office and declare their major as baccalaureate nursing (four-year nursing) are admitted to the University as pre-baccalaureate nursing majors. However, admission to the freshman year does not guarantee admission to the laboratory nursing courses. Students seeking to enter NSC 232 Health Assessment and Promotion, NSC 242 Communication in Nursing, and NSC 252 Intro to Professional Nursing in the third semester of the curriculum must meet minimum program GPA requirements of 2.5 and have School of Nursing chair approval. Spaces in these courses are limited and are reserved for students whose academic record indicates they are more likely to be eligible to be considered for and admitted to the clinical nursing courses. To be eligible to be considered for admission to the clinical nursing courses, students must have completed the first three semesters of college work as outlined in the curriculum plan and have submitted a complete department application. All prerequisite courses must be completed with a grade of "C"/2.0 or better, and a minimum institutional GPA of 2.5 on a 4.0 scale must be obtained. For the prelicensure nursing program, [Nursing Pre-RN (B.S.N.)], some prerequisite courses (BIO 307 Human Anatomy and Physiology I, BIO 273 Clinical Microbiology/MLS 209 Microbiology for Health Sciences, BIO 308 Human Anatomy and Physiology II, CHE 105 Chemistry for the Health Sciences, NFA 201 Essentials of Nutrition, NSC 232 Health Assessment and Promotion, NSC 232L Health Assessment and Promotion, NSC 242 Communication in Nursing, and NSC 252 Intro to Professional Nursing) must have been taken within five years prior to the time application is made for admission to the clinical nursing courses unless an exception has been approved by the department. For the prelicensure Nursing (B.S.N.) Second Degree Concentration, the courses in BIO 307 Human Anatomy and Physiology I, BIO 273 Clinical Microbiology/MLS 209 Microbiology for Health Sciences, BIO 308 Human Anatomy and Physiology II, and NFA 201 Essentials of Nutrition must have been taken within five years prior to the time application is made for admission to the concentration unless an exception has been

approved by the department. Completion of eligibility criteria does not guarantee admission to the clinical nursing courses. Admission to the clinical courses is competitive and based on review of the applicants' academic history by the Baccalaureate Nursing Admission/Readmission Committee. Spaces are limited and the most qualified applicants will be selected for admission.

In addition to the academic criteria required for admission, the student must meet the standards written into the Commonwealth of Kentucky Nurse Practice Act. Specifically, the Nurse Practice Act requires that each student be of good moral and ethical character, good mental and physical health, and be academically qualified to fulfill the role and responsibilities of a person licensed to practice as a professional nurse. Students must meet all clinical agency placement requirements.

For progression, students must earn a grade of "C"/2.0 or better in all nursing and supporting courses. Students who fail to meet the requirements for progression must apply for readmission through the Baccalaureate Admission/Readmission Committee. Readmission to a nursing course is not guaranteed to any student. Please refer to the Baccalaureate Nursing Student Handbook for specific information on readmission procedures. The program reserves the right to alter the suggested plan as necessary to enhance a quality educational program.

For additional admission information please refer to the Selection Criteria at <https://nursing.eku.edu/baccalaureate-programs> (<https://nursing.eku.edu/baccalaureate-programs/>)

## Transfers from Other Colleges and Universities

Academic credits earned at other accredited colleges or universities are transferable upon approval of the appropriate department at Eastern Kentucky University. Official transcripts are to be submitted by the student to the Office of the Registrar. Credits more than eight years old must be approved.

Transfer students must submit copies of all transcripts along with their application to the program. These transcripts will be considered a part of the application process and are necessary to determine admission and placement.

Students wishing to transfer nursing courses from another accredited institution must have a grade equivalent of "C"/2.0 or better in any nursing course to be transferred. In addition, the applicant must submit complete course outlines and/or syllabi. This material should be submitted well in advance of expected matriculation to provide time for necessary evaluation.

## Clinical Requirements:

Transportation to all clinical experiences is the responsibility of the student. Students are expected to adhere to all program and clinical agency policies and must meet all clinical agency placement requirements. To be compliant with Joint Commission regulations, clinical agency contractual agreements, and ensure a safe clinical environment the following items are required before a student can progress to a clinical experience:

1. Proof of professional liability insurance purchased through the University.
2. Proof of CPR for the Health Care Professional.

3. Proof of Rubella, Measles (Rubeola), and Mumps immunity.
4. Proof of Hepatitis B immunity.
5. Proof of negative Tuberculosis screening.
6. Proof of Varicella immunity.
7. Documentation of adult TDaP vaccine (Tetanus, Diphtheria, Acellular Pertussis)
8. Documentation of annual influenza vaccine.
9. Proof of full vaccination for Covid 19.
10. Documentation of the CHS-approved Criminal Background Check.
11. Documentation of the CHS-approved Drug Screening.
12. Proof of Personal Health Insurance.
13. Other documentation as required by specific clinical facilities.

## Protocol for Accepting RN-BSN Students as General Education Certified

Eastern Kentucky University will consider all RN-BSN applicants, who are currently licensed nurses with professional work experience, as General Education certified based on the following standards:

- Applicants will have completed an associate degree for which they have earned a minimum of fifteen (15) General Education credit hours.
- Applicants will have taken and passed the NCLEX RN licensure exam. Competencies demonstrated by this exam are sufficient to satisfy certain General Education competencies.
- Applicants have practical experiential learning that can be applied to the General Education competencies.

Note: Must have 120 total credit hours to complete BSN

## Program Requirements

CIP Code: 51.3801

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
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### University Graduation Requirements

General Education	36
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### Student Success Seminar

HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Nursing Pre-RN majors will fulfill ACCT with the following. (Credit hours are incorporated into Major requirements)

NSC 492	Complex Client Health Care
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### Major Requirements

#### Core Courses

NSC 232	Health Assessment and Promotion	2
NSC 232L	Health Assessment and Promotion	1
NSC 242	Communication in Nursing	3
NSC 252	Intro to Professional Nursing	3
NSC 330	Clinical Drug Therapy	3
NSC 332	Health Assessment and Promotion II	1
NSC 332L	Health Assessment and Promotion	1
NSC 350	Pathophysiology	3
NSC 380	Adult Health Nursing I	2
NSC 380C	Adult Health Nursing I Clinical	2
NSC 386	Adult Health Nursing II	7
NSC 386C	Adult Health Nursing II	3
NSC 390W	Research for EBNP	2
NSC 392	Mental Health Nursing	3
NSC 392C	Mental Health Nursing Clinical	2
NSC 396	Family Health Nursing	5
NSC 396C	Family Health Nursing	2
NSC 480	Health Care Leadership	3
NSC 484	Adult Health Nursing III	2.5
NSC 484C	Adult Health III Clinical	2.5
NSC 487	Public Health Nursing	2.5
NSC 487C	Public Health Nursing	2.5
NSC 492	Complex Client Health Care	2
NSC 492C	Complex Client Health Care Clinical	3
NSC 495	Professional Role Transition	2
NSC 496	Application of Nursing Theory	2
<i>Supporting Course Requirements</i>		
BIO 307	Human Anatomy and Physiology I	3
BIO 273	Clinical Microbiology	3-4
or MLS 209	Microbiology for Health Sciences	
BIO 308	Human Anatomy and Physiology II	3
CHE 105	Chemistry for the Health Sciences (Element 4) <sup>G</sup>	

CHE 105L	Health Science Chemistry Lab (Element 4) <sup>G</sup>	
MAT 105	Mathematics with Applications (or higher level math course with a minimum grade of C) (Element 2) <sup>G</sup>	
NFA 201	Essentials of Nutrition	3
Choose from one of the following:		3-4
SOC 232	Social Statistics	
STA 215	Introduction to Statistical Reasoning	
STA 270	Applied Statistics	
Choose from one of the following:		
PSY 200	Introduction to Psychology (Element 5) <sup>G</sup>	
PSY 200W	Introduction to Psychology: Writing Intensive (Element 5) <sup>G</sup>	
<i>Free Electives</i>		
Choose from three hours of free electives		3
<b>Total Hours</b>		<b>122-124</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## R.N. to B.S.N. Pathway, Bachelor of Science in Nursing (B.S.N.)

The baccalaureate nursing program is based upon the belief that preparation for professional nursing encompasses a broad liberal, general, and professional education. The mission of the School of Nursing is to educate nurses at the Associate, Baccalaureate, Masters and Doctorate levels who work in inter-professional environments to promote health and well-being for diverse populations across the Commonwealth, country and world.

## Professional Nursing Practice Outcomes

Upon completion of the baccalaureate nursing program the BSN graduate:

1. Treats patients as holistic, unique and self-directive with the right to make decisions for themselves concerning health matters.
2. Uses the nursing process to provide, manage, and evaluate culturally competent primary, secondary, and tertiary prevention for diverse clients across the life span in a variety of settings.
3. Uses evidence-based nursing practice, critical thinking, research methodologies, informatics, and healthcare technology to provide therapeutic interventions, predict outcomes, and influence the delivery of health care.
4. Assumes a leadership role in health care by communicating and collaborating with patients, health care professionals, and health care systems.
5. Supports safe, quality, responsible, and economic interdisciplinary health care as a consumer and sociopolitical advocate within multiple health care systems.
6. Promotes the ethical and legal practice of professional nursing.
7. Demonstrates self-care, professionalism, accountability, and competence in nursing practice, with a commitment to advancing the profession of nursing and respecting clients' rights to self-direction and decision making.

## Specific Degree Requirements for Bachelor of Science in Nursing Degree

In addition to the general requirements for the baccalaureate degree, students must earn a grade of "C"/2.0 or better in all nursing and supporting courses.

## Plan for Registered Nurses (RN-BSN)

The School of Nursing offers the opportunity for Associate Degree registered nurses to earn a baccalaureate degree in nursing. Admission requirements include an Associate Degree in Nursing from a program accredited by ACEN or NLN CNEA (or 3 year diploma program), and a RN license from an approved state that is free and unrestricted, meaning that it has not been subject to reprimand, revocation, probation, suspension, restriction, limitation, disciplinary action, discretionary review/hearing or encumbrance nor had any type of complaint filed against it.

## Admission and Progression Requirements

All students who are accepted by EKU's Admissions Office and declare their major as baccalaureate nursing (four-year nursing) are admitted to the University as pre-baccalaureate nursing majors. However, admission to the freshman year does not guarantee admission to the laboratory nursing courses. Students seeking to enter NSC 232 Health Assessment and Promotion, NSC 242 Communication in Nursing, and NSC 252 Intro to Professional Nursing in the third semester of the curriculum must meet minimum program GPA requirements of 2.5 and have School of Nursing chair approval. Spaces in these courses are limited and are reserved for students whose academic record indicates they are more likely to be eligible to be considered for and admitted to the clinical nursing courses. To be eligible to be considered for admission to the clinical nursing courses, students must have completed the first three semesters of college work as outlined in the curriculum plan and have submitted a complete department application. All prerequisite courses must be completed with a grade of "C"/2.0 or better, and a minimum institutional GPA of 2.5 on a 4.0 scale must be obtained. For the prelicensure nursing program, [Nursing Pre-RN (B.S.N.)], some prerequisite courses (BIO 307 Human Anatomy and Physiology I, BIO 273 Clinical Microbiology/MLS 209 Microbiology for Health Sciences, BIO 308 Human Anatomy and Physiology II, CHE 105 Chemistry for the Health Sciences, NFA 201 Essentials of Nutrition, NSC 232 Health Assessment and Promotion, NSC 232L Health Assessment and Promotion, NSC 242 Communication in Nursing, and NSC 252 Intro to Professional Nursing) must have been taken within five years prior to the time application is made for admission to the clinical nursing courses unless an exception has been approved by the department. For the prelicensure Nursing (B.S.N.) Second Degree Concentration, the courses in BIO 307 Human Anatomy and Physiology I, BIO 273 Clinical Microbiology/MLS 209 Microbiology for Health Sciences, BIO 308 Human Anatomy and Physiology II, and NFA 201 Essentials of Nutrition must have been taken within five years prior to the time application is made for admission to the concentration unless an exception has been approved by the department. Completion of eligibility criteria does not guarantee admission to the clinical nursing courses. Admission to the clinical courses is competitive and based on review of the applicants' academic history by the Baccalaureate Nursing Admission/Readmission Committee. Spaces are limited and the most qualified applicants will be selected for admission.

In addition to the academic criteria required for admission, the student must meet the standards written into the Commonwealth of Kentucky Nurse Practice Act. Specifically, the Nurse Practice Act requires that each

student be of good moral and ethical character, good mental and physical health, and be academically qualified to fulfill the role and responsibilities of a person licensed to practice as a professional nurse. Students must meet all clinical agency placement requirements.

For progression, students must earn a grade of "C"/2.0 or better in all nursing and supporting courses. Students who fail to meet the requirements for progression must apply for readmission through the Baccalaureate Admission/Readmission Committee. Readmission to a nursing course is not guaranteed to any student. Please refer to the Baccalaureate Nursing Student Handbook for specific information on readmission procedures. The program reserves the right to alter the suggested plan as necessary to enhance a quality educational program.

For additional admission information please refer to the Selection Criteria at <https://nursing.eku.edu/baccalaureate-programs> (<https://nursing.eku.edu/baccalaureate-programs/>)

## Transfers from Other Colleges and Universities

Academic credits earned at other accredited colleges or universities are transferable upon approval of the appropriate department at Eastern Kentucky University. Official transcripts are to be submitted by the student to the Office of the Registrar. Credits more than eight years old must be approved.

Transfer students must submit copies of all transcripts along with their application to the program. These transcripts will be considered a part of the application process and are necessary to determine admission and placement.

Students wishing to transfer nursing courses from another accredited institution must have a grade equivalent of "C"/2.0 or better in any nursing course to be transferred. In addition, the applicant must submit complete course outlines and/or syllabi. This material should be submitted well in advance of expected matriculation to provide time for necessary evaluation.

## Protocol for Accepting RN-BSN Students as General Education Certified

Eastern Kentucky University will consider all RN-BSN applicants, who are currently licensed nurses with professional work experience, as General Education certified based on the following standards:

- Applicants will have completed an associate degree for which they have earned a minimum of fifteen (15) General Education credit hours.
- Applicants will have taken and passed the NCLEX RN licensure exam. Competencies demonstrated by this exam are sufficient to satisfy certain General Education competencies.
- Applicants have practical experiential learning that can be applied to the General Education competencies.

Note: Must have 120 total credit hours to complete BSN

## Program Requirements

CIP Code: 51.3801

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
(See above for Protocol for Accepting RN-BSN Students as General Education Certified)		
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - RN to B.S.N. majors will fulfill ACCT with the following. (Credit hours are incorporated into Major requirements)		
NSC 442	Complex Health Systems	
<b>Major Requirements</b>		
<i>Core Courses</i>		
NSC 381	Perspectives in Professional Nursing I	3
NSC 383	Perspectives in Professional Nursing II	3
19 hours upon completion of NSC 385:		19
NSC 385	Perspectives in Professional Nursing III <sup>1</sup>	4
NSC 390W	Research for EBNP	2
NSC 440	Leadership and Management	3
NSC 442	Complex Health Systems	3
NSC 442C	Complex Health Systems	2
NSC 445	Professional Role Transitions	2
NSC 486	RN Public Health Nursing	3
NSC 386C	Adult Health Nursing II	3
<i>Supporting Course Requirements</i>		
Choose from 0-3 hours of the following:		0-3

SOC 232	Social Statistics (does not meet Element 2)
STA 215	Introduction to Statistical Reasoning (Element 2)
STA 270	Applied Statistics (Element 2) <sup>G</sup>
<b>Free Electives</b>	
Choose from 36-39 hours of free electives	36-39
May be met with previous Associate Nursing degree courses.	
<b>Total Hours</b>	<b>120-126</b>

1

Upon successful completion of NSC 385 Perspectives in Professional Nursing III, the RN is granted credit for NSC 380 Adult Health Nursing I, NSC 380C Adult Health Nursing I Clinical, NSC 386 Adult Health Nursing II, NSC 386C Adult Health Nursing II, NSC 484 Adult Health Nursing III, and NSC 484C Adult Health III Clinical (19 hrs.).

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Department of Environmental Health Science

### Chair

Dr. Ismail El-Amouri  
(859) 622-3078  
Dizney 220

### Faculty

G. Brown, A. Davis, V. Grabeel, J. Hisel, J. Marion.

The Environmental Health Science and Sustainability program offers the Bachelor of Science degree. Established in the early 1970's, the program is currently the state's only accredited program and one of only 30 such programs in the United States accredited by the National Environmental Health Science and Protection Council. The program includes extensive study of the physical, chemical and biological threats to human health and focuses on both engineered barriers and behavioral changes required for protecting and enhancing human health. The program includes general education and support courses in biology, chemistry, and mathematics, plus a variety of environmental health courses dealing with air quality, water quality, wastewater disposal and treatment, hazardous and solid waste management, risk assessment and epidemiology, industrial hygiene, control of disease vectors, food hygiene, radiological health, environmental health program planning and law, and toxicology. During upper division study, the student must complete three credit hours of supervised field experience with appropriate agencies, industries, consulting companies, etc. Also, cooperative education opportunities are available to all students who may wish to gain experience in addition to credit hours.

Eastern Kentucky University's Environmental Health Science and Sustainability graduates are qualified for positions with federal, state, and local government departments of environmental health, as well as public health protection agencies such as the United States Public Health Service, the Environmental Protection Agency, Food and Drug Administration, Department of Energy, and Occupational Safety and Health Administration. Graduates are also qualified for employment in private industry and environmental consulting firms. This work may include quality control, industrial hygiene and safety, loss control and risk assessment, or many other facets of environmental health consultation.

The demand for qualified environmental health practitioners is currently high and exceeds the number of graduates from accredited programs and projected to increase over the next decade.

## Progression Criteria

A student majoring or minoring in environmental health science and sustainability must achieve a grade of "C"/2.0 or better in all EHS and supporting courses.

## Bachelor's

- Environmental Health Science and Sustainability, Bachelor of Science (B.S.) (p. 204)

## Minor

- Environmental Health Science and Sustainability, Minor (p. 205)

## Certificate

- Environmental Public Health Studies (EPHS), Certificate (p. 205)

## Courses

### EHS 225. African/African-Amer Hlth Iss. (3 Credits)

I. Cross listed as AFA 225. Provides the student with an understanding of the medical and public health issues relevant to the maintenance of health conditions both in the United States and Africa. Credit will not be awarded to students who have credit for AFA 225.

### EHS 230. Recreational Health. (3 Credits)

II. Provides the student with an understanding of the biological, chemical and physical threats to health and life from the recreational, amusement, travel and tourist environments.

### EHS 280. One Health: Global Environmental Public Health. (3 Credits)

A. Elements of global environmental health from a One Health Perspective, including water and waste treatment, air pollution, food sanitation, vector control, solid waste disposal, and general sanitation problems.

### EHS 290. Seminar in Environ Health. (2 Credits)

A. Prerequisite: departmental approval. Discussion and analysis of literature related to selected current environmental health problems.

### EHS 300W. Water and Health. (4 Credits)

I, II. Prerequisite: ENG 102 or 102R, 105(B), or HON 102, EHS 280, BIO 320 or MLS 209 and MLS 211. Drinking water safety in both individual private systems and larger public systems. Maintenance of raw water quality, water purification, delivery systems, and surveillance. Techniques for collection, treatment, and disposal of sewerage also discussed. Credit will not be awarded for students who have credit for EHS 300.

### EHS 335. Hazardous and Solid Waste Management. (3 Credits)

II. Prerequisites: CHE 111, 111L and EHS 280; or departmental approval. Nature of toxic and hazardous wastes and methods for their disposal to protect health and the environment and to prevent contamination of groundwater. The environmental health and safety aspects of solid waste collection, treatment and disposal, and regulations governing waste management are also discussed.

### EHS 340. Total Worker Health Principles. (3 Credits)

I, II. Prerequisites: BIO 111, CHE 111, 111L and EHS 280; or departmental approval. The impact of the workplace on safety and health, and methods for avoiding work-related illnesses. Emphasis will be on the evaluation and the control of the work environment to protect worker health.

**EHS 345. Applied Total Worker Health. (4 Credits)**

II. Prerequisite: EHS 340 or departmental approval. In-depth discussion of the chemical and physical hazards of the workplace and their evaluation and to provide hands-on experience in industrial hygiene sampling and analysis.

**EHS 349. Applied Learning in Environmental Health Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 349A. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 349B. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349C. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349D. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349E. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349F. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349G. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349H. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349I. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349J. Cooperative Study: Environmental Health Science. (0.5-8 Credits)****EHS 349K. Cooperative Study: Environmental Health Science. (1-8 Credits)****EHS 349L. Cooperative Study: Environmental Health Science. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 349M. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 349N. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 355. CBR Terrorism & Environmental Health. (3 Credits)**

II. This course will provide students with environmental health principles required to protect individuals and communities in times of war, general emergencies and disaster, both natural and human, due to chemical, biological and radioactive threats.

**EHS 360. Air Quality & Climate Change. (4 Credits)**

A. Prerequisites: CHE 112, 112L and EHS 280; or departmental approval. Health effects of air pollution, including a discussion of the primary sources of airborne pollutants, their transport and transformation, the control of air pollution, state and national standards.

**EHS 370. Environmental Disease Detectives: Epidemiology. (3 Credits)**

I, II. Prerequisites: EHS 280 and STA 215; or departmental approval. The use of data to define the health effects of exposed individuals or populations to hazardous materials and situations.

**EHS 380. Food Security and Sanitation. (3 Credits)**

I, II. Prerequisites: EHS 280 or departmental approval. A study of the health effects of food-borne disease, including an in-depth discussion of the physical, chemical, and biological contaminants that cause an estimated 76 million cases of food-borne illnesses annually in the U.S. An examination of the food processing and food service industry's failings and efforts to prevent food-borne illness will be the primary focus.

**EHS 390. EHS Special Problems in Environmental Health. (1-4 Credits)**

A. Prerequisite: departmental approval. For independent work, or special workshops, or special topics as they relate to environmental health issues and problems. May be retaken for maximum of eight hours.

**EHS 395. Environmental Problem Analysis. (3 Credits)**

II. Prerequisites: EHS 335, 340, and MAT 107 or 109; or departmental approval. Application of the student's knowledge gained from technical course work to analyze environmental problems. Emphasis is on logically solving environmental health issues that the student can expect when working in the field.

**EHS 425. One Health: Planning to Practical Application. (3 Credits)**

A. Prerequisites: EHS 280 and 335. Administration, planning, implementation, and evaluation of environmental health programs. Discussion of resources and promotional techniques, and the role of the environmental health specialist dealing with community, state, and regional agencies.

**EHS 440. Environmental and Industrial Toxicology. (3 Credits)**

II. Prerequisites: CHE 112, 112L and EHS 280; or departmental approval. Health effects and nature of toxic substances with discussion of dose-response relationships, latency, target organs, and potential exposures in the environment.

**EHS 460. Healthy Housing and Sustainability. (3 Credits)**

A. Prerequisite: EHS 280 or departmental approval. Corequisite: EHS 485. Discusses the requirements for healthful housing means of attaining and maintaining these requirements. Reviews environmental health concerns relating to day-care centers, schools, hospitals, nursing homes, and prisons. Describes surveillance, evaluative, and corrective methods.

**EHS 463. Field Experience in Environmental Health. (3 Credits)**

A. Prerequisites: EHS 300, 335, 380, and departmental approval. Supervised and directed field experience in local, state, regional environmental health agencies, or with appropriate industries. Eight to ten weeks full-time required depending on work place.

**EHS 485. Life After College: The Professional. (1 Credit)**

A. Prerequisite: 90 hours. Corequisite: EHS 460. Provides the graduating student a certification and licensure review for their required state and national exams. The student will also be taught how to develop professional success strategies and long range career plans.

**EHS 498. Independent Study in Environmental Health. (1-3 Credits)**

A. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department coordinator prior to enrollment. Opportunity for individual work on an environmental health research problem in a supervised situation.

**EHS 510. Radiological Health and Safety. (3 Credits)**

A. Provides the student with the principles of health effects from ionizing radiation, including radiation sources, detection, measurement, control, and safety devices. Student will be able to identify, evaluate and control radiation in the work environment; implement a radiation monitoring program; establish emergency plans for actions to be taken in event of radiological accident; develop risk assessment and communication program. Credit will not be awarded to students who have received credit for EHS 710.

**EHS 530. Emerging and Re-emerging Infectious Diseases. (3 Credits)**

I, II. Prerequisite: Senior Standing; BIO 111 and EHS 280. The student will acquire an understanding of the principles, biology, identification, evaluation, and control of vector borne diseases and other emerging/re-emerging diseases of public health concern.

# Environmental Health Science and Sustainability, Bachelor of Science (B.S.)

## Program Requirements

CIP Code: 51.2202

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Environmental Health Science majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
EHS 463	Field Experience in Environmental Health	
or EHS 349	Applied Learning in Environmental Health Science	
<b>Major Requirements</b>		
<i>Core Courses</i>		
EHS 230	Recreational Health	3
EHS 280	One Health: Global Environmental Public Health	3
EHS 300W	Water and Health	4
EHS 335	Hazardous and Solid Waste Management	3
EHS 340	Total Worker Health Principles	3
EHS 345	Applied Total Worker Health	4
EHS 360	Air Quality & Climate Change	4
EHS 370	Environmental Disease Detectives: Epidemiology	3
EHS 380	Food Security and Sanitation	3
EHS 425	One Health: Planning to Practical Application	3
EHS 440	Environmental and Industrial Toxicology	3
EHS 460	Healthy Housing and Sustainability	3
EHS 463	Field Experience in Environmental Health	3
EHS 485	Life After College: The Professional	1
EHS 510	Radiological Health and Safety	3
EHS 530	Emerging and Re-emerging Infectious Diseases	3
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 308	Human Anatomy and Physiology II	3
BIO 320	Principles of Microbiology	4
or MLS 209 & MLS 211	Microbiology for Health Sciences and Medical Microbiology Laboratory	
CHE 111	General Chemistry (Element 4) <sup>G</sup>	
CHE 111L	General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
GEO 100	Regions and Nations of the World	3
GEO 353	Geographic Information Systems	3
Choose from one of the following: (Element 2)		
MAT 114	College Algebra <sup>G</sup>	
MAT 122	Precalculus Mathematics <sup>G</sup>	
MAT 211	Applied Calculus <sup>G</sup>	
PHY 131	College Physics I <sup>1</sup>	5

STA 215	Introduction to Statistical Reasoning	3
<i>Free Electives</i>		
Choose from 5 hours of free electives		5
<b>Total Hours</b>		<b>120</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1  
 MAT 120 Trigonometry or department approval is a pre-requisite for PHY 131 College Physics I.

A minimum score of 22 on the mathematics portion of the ACT or 530 on the mathematics portion of the SAT.

## Environmental Health Science and Sustainability, Minor

A student may minor in environmental health science and sustainability by completing with a grade of "C" or better.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
EHS 280	One Health: Global Environmental Public Health	3
EHS 380	Food Security and Sanitation	3
EHS 510	Radiological Health and Safety	3
Choose from nine hours of EHS courses with advisor approval for a minimum of 18 hours		9
<b>Total Hours</b>		<b>18</b>

## Environmental Public Health Studies (EPHS), Certificate

A student may complete a certificate in Environmental Public Health Studies (EPHS) by earning a total of 18 credit hours with a grade of "C" or better.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
EHS 230	Recreational Health	3
EHS 280	One Health: Global Environmental Public Health	3
EHS 335	Hazardous and Solid Waste Management <sup>1</sup>	3
EHS 380	Food Security and Sanitation	3
EHS 390	EHS Special Problems in Environmental Health <sup>2</sup>	3
EHS 425	One Health: Planning to Practical Application	3
<b>Total Hours</b>		<b>18</b>

1  
 Course may have pre-requisite or co-requisite

2  
 EHS 390 EHS Special Problems in Environmental Health is a variable credit course (1-4 hrs.), students in the EPHS program are required to take the course for 3 hours credit.

## Department of Exercise and Sport Science

### Chair

Dr. Eric Fuchs  
 (859) 622-1889  
 Moberly 233

### Faculty

H. Adams#Blair, J. Cormier, E. Fuchs, M. Lane, J. Larkin, A. Monk, C. Perry, M. Sabin, and T. Spigelman

The Department of Exercise and Sport Science offers Bachelor of Science degrees in Sport Management, and Exercise and Sport Science with three program concentrations: Physical Fitness and Wellness Management, Pre-Physical Therapy, and Pre-Athletic Training. In addition, the department offers two accelerated, 3+2 dual degree leading to graduate degrees offered by the department: a MS in Exercise and Sport Science: Exercise Wellness concentration and the MS in Athletic Training. The department also offers minors in Physical Education (non-teaching), and Coaching (non-teaching). The Department also offers a certificate in Coaching/Personal Training.

Students who transfer from another college or university must earn a minimum of 12 hours at EKU in their major. Students who transfer from another college or university must earn a minimum of six hours at EKU in their minor.

### Bachelor's

- Exercise & Sport Science, Bachelor of Science with a Concentration in Physical Fitness & Wellness Management (B.S.) (p. 210)
- Exercise & Sport Science, Bachelor of Science with a Concentration in Pre-Physical Therapy (B.S.) (p. 211)
- Exercise & Sport Science, Bachelor of Science with a Concentration in Pre#Athletic Training (B.S.) (p. 212)
- Sport Management, Bachelor of Science (B.S.) (p. 216)

### Accelerated

- Exercise and Sport Science, Bachelor of Science (B.S.) and Athletic Training, Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Pre-Athletic Training (p. 213)
- Exercise and Sport Science, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Physical Fitness & Wellness Management (p. 214)

### Minor

- Coaching (Non-Teaching), Minor (p. 209)

### Certificate

- Coaching/Personal Training, Certificate (p. 209)

## Courses

### Athletic Training

#### **ATR 325. Applied Palpation Anatomy for Healthcare Providers. (3 Credits)**

A. Formerly ATR 225. Pre-requisite: BIO 107 or 307 with a minimum grade of "C". Co-requisite: ATR 325L. Students repeating ATR 325 must also enroll in 325L. Provide students with the opportunity to identify, differentiate and assess human musculoskeletal, nerve, and vascular body structures. This course will focus on anatomy function and assessment from the healthcare perspective. Credit will not be awarded for both ATR 225 and 325. 3 Lec.

#### **ATR 325L. Applied Palpation Anatomy for Healthcare Providers Lab. (1 Credit)**

A. Formerly ATR 225L. Co-requisite: ATR 325. Students repeating ATR 325L must also enroll in ATR 325. Provide students with hands on opportunity to identify, differentiate, and assess human body structures through palpation. This course will focus on musculoskeletal, nerve and vascular structures assessment for healthcare providers. Credit will not be awarded for both ATR 225L and ATR 325L. 2 Lab.

#### **ATR 330. Foundations of Orthopedic Evaluation. (3 Credits)**

I. Prerequisite: ATR 325, 325L and ESS 212, each with a grade of "C" or better. Students will learn how to properly evaluate common injuries of the lower and upper extremity and spine. Students will learn how to apply these techniques to various structures and pathologies across the entire human body. 3 Lec.

#### **ATR 340. Foundations of Rehabilitation. (2 Credits)**

A. Prerequisite: ATR 330 with a minimum grade of "C". Co-requisite: ATR 304L. Students repeating ATR 340 must also enroll in ATR 340L and the most recent grade in these two co-requisites will be applied toward student's GPA. Study and development of therapeutic exercise program design. Emphasis on understanding the interaction between healing, exercise selection and the return to function. 2 Lec.

#### **ATR 340L. Foundations of Rehabilitation Lab. (1 Credit)**

A. Co-requisite: ATR 304. Students repeating ATR 340L must also enroll in ATR 340 and the most recent grade in these two co-requisites will be applied toward student's GPA. Application of rehabilitation to further understand the interaction between healing, exercise selection and the return to function. 2 Lab.

#### **ATR 430. Foundations of Clinical Practice. (3 Credits)**

A. Prerequisite/Corequisite: ATR 340 and 340L each ATR 330 with a grade of "C" or better. Students will receive an introduction to the clinical practice of athletic training and/or physical therapy through didactic education, basic skill performance, and clinical observation; preparing them for future clinical practice.

### Exercise and Sport Science

#### **ESS 180. Lifetime Wellness. (3 Credits)**

I, II. Formerly PHE 180. Interactive learning and laboratory experiences for individual assessment, practice of exercise systems, and improvement of body function. This course offers a comprehensive discussion of the critical areas of health, physical fitness, and wellness. Gen. Ed. VI. Fulfills University Wellness Requirement.

#### **ESS 190. Wellness Experience:\_\_\_\_. (1-2 Credits)**

I, II. Formerly PHE 190. Wellness activities of current interest and/or need for students. May be retaken to a maximum of six hours, if subtitles are different. Credit will not be awarded to students who have received credit for HPR 190.

#### **ESS 200. Dance and Culture. (3 Credits)**

I. Formerly PHE 200. Introduction to dance and its role as a non-verbal means of expression. The course examines several dance forms and their cultural context including folk, social, ethnic, entertainment, and dance as an art form. Gen. Ed. Element 3A.

#### **ESS 201. Foundations of Sport Science. (3 Credits)**

I, II. Formerly PHE 201. Introduction to the profession, exposure to professional standards in the field, and historical perspective and philosophies in physical education and sports science.

#### **ESS 212. Care and Prevention of Athletic and Exercise Injuries. (3 Credits)**

I, II. Formerly PHE 212. Overview of the mechanism, prevention, management, and rehabilitation of athletic and exercise injuries.

#### **ESS 220. Team Sports I. (2 Credits)**

I. Formerly PHE 220. Basic skills, strategy, rules, officiating, and teaching techniques related to various team sports.

#### **ESS 224. Team Sports II. (3 Credits)**

I, II. Formerly PHE 224. Prerequisite: Open only to majors in Physical Education, Sports Management, those who have declared a coaching minor, coaching/personal training certificate, or those with departmental approval. Basic skills, strategy, rules, officiating, and teaching techniques related to basketball, volleyball, soccer, and track and field.

#### **ESS 230. Social Dance I. (1 Credit)**

I, II. Formerly PHE 230. This course introduces the basic movement concepts of social dancing. Rhythm, style and variations of several popular social dances are covered as well as leading and following skills. Some of the dances covered include: swing, salsa, merengue, tango, waltz and hustle.

#### **ESS 241. Introduction to Swimming. (1 Credit)**

A, I, II. Develop swimming skills and endurance to intermediate level; study of fundamental mechanical principles; basic safety skills; ability to conduct a variety of aquatic activities.

#### **ESS 250. Modern Dance. (1 Credit)**

I, II. Formerly PHE 250. A beginning level modern dance technique class designed to introduce the student to basic modern dance skills and concepts including some improvisation and choreographic skills. No prior dance experience is necessary. May be retaken up to a maximum of 3 hours.

#### **ESS 261. Coaching Baseball and Softball. (2 Credits)**

I, II. Formerly PHE 261. Theory and practice in coaching the fundamentals of baseball and softball; team offense and defense.

#### **ESS 271. Ballet I. (1 Credit)**

A. Formerly PHE 271. A beginning ballet class designed to introduce the student to the art of ballet. Basic barre, center floor and across the floor combinations are performed. Ballet history and terminology are covered through the textbook readings and videos.

#### **ESS 300. Dance Activities in the Schools. (3 Credits)**

II. Formerly PHE 300. Teaching creative and social forms of dance in the educational and recreational setting.

#### **ESS 301. Foundations of Coaching. (3 Credits)**

I, II. Formerly PHE 301. Coaching communication, organization, motivational skills, sports skills, tactics, and philosophy. American Sport Education Program (ASEP) certification awarded to those who qualify.

**ESS 305. Individual and Dual Sports I. (3 Credits)**

I, II. Formerly PHE 305. Prerequisite: Open only to majors in Physical Education or Sport Management, those who have declared a Coaching minor, Coaching/Personal Training Certificate, or those with departmental approval. Basic skills, strategy, etiquette, rules, and teaching techniques related to tennis, golf, and badminton.

**ESS 306. Individual and Dual Sports II. (3 Credits)**

A. Formerly PHE 306. Basic skills, strategy, etiquette, rules, and teaching techniques related to archery, bowling, and racquetball.

**ESS 310. Physical Activity and Child Development. (3 Credits)**

II. Formerly PHE 310. Prerequisite: EDF 219 or 219W with a minimum grade of "C". Understanding of motor development and the improvement of human movement through developmental movement activities which are basic to readiness for performance at school.

**ESS 313. Lifeguard Training. (3 Credits)**

I, II. Formerly PHE 313. Prerequisite: ability to pass American Red Cross swimming test. Advanced technique of water safety and rescue; American Red Cross certification awarded to those who qualify.

**ESS 315. Physical Fitness Concepts and Applications. (3 Credits)**

(3) I, II. Formerly PHE 315. Prerequisite: Open only to majors in Physical Education or those with departmental approval. Discussion, demonstration, practice of fitness concepts and various methods of developing physical fitness.

**ESS 320. Biomechanics. (3 Credits)**

I, II. Formerly PHE 320. Prerequisite: BIO 107 or 301. Qualitative study of human movement through anatomical, physiological, and biomechanical concepts; analysis and application.

**ESS 322. Legal Issues in Sport. (3 Credits)**

I. Formerly PHE 322. Prerequisite: GBU204. Legal issues involved in the supervision, management, and business operations of sport. A critical perspective of the American legal system as it applies to sport.

**ESS 323. Movement Concepts and Skill Themes. (3 Credits)**

I. Formerly PHE 323. Prerequisites: physical education major, CED 100 and EDF 203. Motor skill themes and movement concepts required for planning and teaching the appropriate sequence and scope for achievement of learner outcomes through elementary physical education.

**ESS 324. Policy and Governance in Sport. (3 Credits)**

I. Formerly PHE 324. Designed to encourage students to integrate management theory with governance and policy development. Provides an overview of the sport industry from the perspective of the sport management professional.

**ESS 325. Physiology of Activity. (3 Credits)**

I, II. Formerly PHE 325. Prerequisite: BIO 171 OR 307 and 301 OR 308. Effects of physical activities on various systems of the human body. Credit will not be awarded for both ESS 325 and PHE 325.

**ESS 327. Sport in American Society. (3 Credits)**

II. Formerly PHE 327. Impact of sport in American society with attention to relationship of political, economic, ethnic, and institutional forces operating within the phenomenon of sport.

**ESS 328. Sport Finance. (3 Credits)**

II. Formerly PHE 328. Course will examine all aspects of successful sport business operations, including budgeting, legal issues, marketing, competitive positioning, regulatory compliance, and strategies for success in sport and recreation industry.

**ESS 330. Social Dance II. (1 Credit)**

A. Formerly PHE 330. This course will build on skills learned in Social Dance I. New dances covered will include: Triple Swing, West Coast Swing, Bolero, Samba and Quickstep. More variations will also be introduced for dances learned in Social Dance I.

**ESS 340. Water Safety Instructor. (3 Credits)**

I, II. Prerequisite: proficient swimming ability. This American Red Cross course will train students to become certified swimming instructors. Course consists of lecture, lab, technique instruction, and practice teaching. WSI certification for those who qualify.

**ESS 343. Lifeguard Instructor. (3 Credits)**

A. Requires American Red Cross Lifeguard certification and age of 17 years or older. Course is designed to teach students who are already certified as American Red Cross Lifeguards to become American Red Cross lifeguard instructors (LGIs), allowing them to instruct American Red Cross Lifeguard Training, First Aid and CPR for the Professional Rescuer/AED. Focuses on classroom and in-water instruction, planning, organizing, sequencing, skill development, and Red Cross operation policies and procedures.

**ESS 345. Dance Choreography. (2 Credits)**

II. Formerly PHE 345. Basics of dance choreography, applicable to entertainment and art forms of dance.

**ESS 349. Applied Learning in Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349A. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349A. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349B. Cooperative Learning: Physical Education. (0.5-8 Credits)**

**ESS 349C. Cooperative Learning: Physical Education. (0.5-8 Credits)**  
A. Formerly PHE 349C. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349D. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349D. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349E. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349E. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349F. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349F. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349G. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349G. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349H. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349H. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349I. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349I. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349J. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349J. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349K. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349K. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349L. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349L. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349M. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349M. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349N. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349N. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 350. Modern Dance I, II. (1 Credit)**

A. Formerly PHE 350. An intermediate level Modern Dance technique class including floor, center floor and across the floor dance combinations. The course is designed to help the student improve his/her alignment, technique, improvisation and choreographic skills.

**ESS 355. Ethnic Dance Forms. (1 Credit)**

A. Formerly PHE 355. A beginning/intermediate dance class in a particular ethnic form of dance. Basic steps and rhythms characteristic of the dance form will be learned as well as information about the culture from which it is derived.

**ESS 360. Coaching Basketball. (2 Credits)**

I, II. Formerly PHE 360. Theory and practice in coaching the fundamentals of basketball; team offense and defense.

**ESS 361. Coaching Volleyball. (2 Credits)**

I, II. Formerly PHE 361. Theory and practice in coaching the fundamentals of volleyball; team offense and defense.

**ESS 362. Coaching Track and Field. (2 Credits)**

II. Formerly PHE 362. Theory and practice in coaching fundamentals involved in track and field.

**ESS 383. Sports Officiating. (1 Credit)**

I, II. Formerly PHE 383. Technique and skill of officiating, structure of officiating, and relationship between performance, behavior, and the official's duties.

**ESS 390. Lifetime Activity Series:\_\_\_\_. (0.5-2 Credits)**

I, II. Formerly PHE 390. A series of activities suitable for participation throughout life. Includes rules, skills, techniques, and strategies. May be retaken to a maximum of four hours toward graduation requirements. Credit will not be awarded to students who have received credit for HPR 390.

**ESS 400. Management of Sport Organizations. (3 Credits)**

I, II. Formerly PHE 400. Aspects of sport management including disciplinary foundations of sport, theoretical and applied foundations of organization and management, opportunities available in various segments of the sport industry, and professional preparation and development.

**ESS 407. Strength and Conditioning Programming. (3 Credits)**

I, II. Formerly PHE 407. Advanced skills in developing, implementing, and evaluating strength training programs. Knowledge of strength and resistance training, spotting techniques, and safety techniques, exercises and associated anatomy, periodization, and general guidelines for all fitness levels and ages.

**ESS 415. Outdoor and Lifelong Leisure Motor Activities. (3 Credits)**

II. Formerly PHE 415. Prerequisites: EDF 203. Knowledge and skills needed to conduct cooperative, leisure, adventure, and outdoor motor activities for achievement of important personal and educational goals in the school system.

**ESS 418. Dance Science. (3 Credits)**

A. Formerly PHE 418. Application of functional anatomy, basic physiology and physics to dance movement. Offers knowledge base for teachers to instruct safe and effective dance classes and prevent injury. Requirement for Dance Certification.

**ESS 420. Coaching Football. (2 Credits)**

I, II. Formerly PHE 420. Theory and practice in coaching the fundamentals of football; team offense and defense.

**ESS 423. Psychology of Coaching. (3 Credits)**

I. Formerly PHE 423. Study of the dynamics of coaching including performance enhancement and understanding the functions of the coaching process.

**ESS 430. Fitness Program Administration. (3 Credits)**

I. Formerly PHE 430. Prerequisites: ESSC majors and junior or senior standing. Students will learn aspects of fitness and wellness program administration, including management skills, risk management, member tracking, promotion, and record keeping. Additionally, students will be introduced to clinical exercise electrocardiography.

**ESS 433. Adult Physical Fitness Programs. (3 Credits)**

II. Formerly PHE 433. Prerequisites: ESSC Physical Fitness & Wellness Concentration and junior or senior standing. Practice and study of exercise programs meeting the guidelines of the American College of Sports Medicine (ACSM) for improving health-related fitness.

**ESS 435. Group Fitness Instruction. (3 Credits)**

I. Formerly PHE 435. Prerequisites: PHE 320 and 325. A methods class for teaching group fitness classes. Students will learn movement and rhythmic fundamentals, effective teaching methods, how to develop appropriate and creative choreography, injury prevention, marketing techniques, and legal issues involved in starting and running a group exercise class.

**ESS 450. Modern Dance III. (1 Credit)**

I, II. Formerly PHE 450. An advanced level modern dance technique class including floor, center floor and across the floor dance combinations. The course is designed for the dancer that has had several years of dance training and is prepared for more challenging and complex dance skills. May be retaken to a maximum of three hours.

**ESS 467. Skill Acquisition. (3 Credits)**

I. Formerly PHE 467. Practical application of principles of learning and performing motor skills taught in the physical activity environment and the influence of historical events on research in the area of skill acquisition.

**ESS 470. Internship: Sport Management. (1-6 Credits)**

A. Formerly PHE 470. Prerequisite: 2.0 GPA, completion of sport management core and supporting courses. Students are required to document a minimum of 50 hours of sport management related experiences prior to enrollment in PHE 470. Supervised experiences in the directing of sports and physical activities in various settings. May be retaken to a maximum of six hours.

**ESS 471. Practicum in Teaching Dance. (3 Credits)**

A. Formerly PHE 471. Practical experience creating lesson plans and teaching dance in the P-12 school system. Practicum students will teach primary, elementary, middle and secondary students, dance as an art form along with ethnic, folk and social dance. Required for Dance Certification.

**ESS 472. Internship: Physical Fitness and Wellness Management. (1-6 Credits)**

A. Formerly PHE 472. Prerequisite: 2.0 GPA; completion of physical education core courses and physical fitness and wellness option courses. Students are required to document a minimum of 50 hours of physical fitness and wellness related experiences prior to enrollment in PHE 472. Supervised experiences in the directing of wellness and physical fitness activities in various settings. May be retaken to a maximum of six hours.

**ESS 485. Independent Study. (1-3 Credits)**

I, II. Formerly PHE 485. Individual work on a physical education related problem in supervised situation. Restricted to undergraduate physical education major or minor student. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ESS 490. Experiences in Research. (1-3 Credits)**

I, II. Formerly PHE 490. Prerequisites: ATR 100 or PHE 201 and departmental approval. Directed research experience in athletic training, physical education or sports management. May be retaken to a maximum of 9 hours. Students must have research proposal form approved by faculty supervisor and department chair prior to enrollment.

**ESS 517. Bioenergetics in Physical Activity. (3 Credits)**

A. Formerly PHE 517. Prerequisite: Junior/senior standing in major or with departmental approval. Study of bioenergetics processes and the relationship to energy storage, transformation and utilization in biological systems. Study of energy metabolism during different physiological conditions and the applications to clinical exercise science and sport.

**ESS 520. Advanced Strength and Condition. (3 Credits)**

I, II Prerequisites: ESS 407 with a minimum grade of "C"; or Instructor approval. Course is an advanced education in the field of strength and conditioning, principles, organization, and techniques. Higher level understanding of human physiology will be gained with specific emphasis on optimizing adaptation response.

**ESS 530. Sport Communications. (3 Credits)**

II. Formerly PHE 530. Students will explore and apply communication theories to the sport and exercise industry. Emphasis will be on examination of public and media relations with a special focus on organizational communication to external and internal publics.

**ESS 562. Adapted Physical Activity. (3 Credits)**

I, II. Formerly PHE 562. Principles and practices of adapted physical education emphasizing the needs of people with disabilities. Emphasis will be placed on the importance of physical activity, recent legislation, assessments, individual education plans, and adapting activities.

**ESS 575. Texts and Measurements. (3 Credits)**

I, II. Formerly PHE 575. Administration and scoring of tests; evaluation of use of results obtained.

**ESS 590. Special Topics in Exercise and Sport Science. (1-4 Credits)**

A. Formerly PHE 590. Study of various topics in physical education and sport selected to meet special student needs and interests.

## Coaching (Non-Teaching), Minor Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
ESS 212	Care and Prevention of Athletic and Exercise Injuries	3
ESS 301	Foundations of Coaching	3
ESS 322	Legal Issues in Sport	3
ESS 383	Sports Officiating	1
ESS 423	Psychology of Coaching	3
ESS 224 or ESS 305	Team Sports II Individual and Dual Sports I	3
ESS 407 or ESS 590	Strength and Conditioning Programming Special Topics in Exercise and Sport Science	3
<b>Total Hours</b>		<b>19</b>

Current CPR and First Aid certification required at the time of graduation.

## Coaching/Personal Training, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
ESS 212	Care and Prevention of Athletic and Exercise Injuries	3
ESS 301	Foundations of Coaching	3
ESS 383	Sports Officiating	1
ESS 423	Psychology of Coaching	3
ESS 407	Strength and Conditioning Programming	3
	Choose from one of the following:	2

ESS 261	Coaching Baseball and Softball	
ESS 360	Coaching Basketball	
ESS 361	Coaching Volleyball	
ESS 362	Coaching Track and Field	
ESS 420	Coaching Football	
ESS 224	Team Sports II	3
or ESS 305	Individual and Dual Sports I	
Choose from one of the following:		1
EMC 104	Healthcare Basic Life Support	
CPR certification		
<b>Total Hours</b>		<b>19</b>

Current CPR required at the time of graduation.

# Exercise & Sport Science, Bachelor of Science with a Concentration in Physical Fitness & Wellness Management (B.S.)

## Program Requirements

CIP Code: 31.0505

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - ESS majors pursuing Physical Fitness & Wellness Management and Pre-Athletic Training/Pre-Physical Therapy concentrations will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)

ESS 472	Internship: Physical Fitness and Wellness Management (Physical Fitness & Wellness Management)	
ATR 430	Foundations of Clinical Practice (Pre-Athletic Training/Pre-Physical Therapy)	

### Major Requirements

#### Core Courses

ESS 212	Care and Prevention of Athletic and Exercise Injuries	3
ESS 315	Physical Fitness Concepts and Applications	3
ESS 320	Biomechanics	3
ESS 325	Physiology of Activity	3
ESS 562	Adapted Physical Activity	3
ESS 575	Texts and Measurements	3

Current CPR certification required at time of graduation. Students within all ESS concentrations will take these common "core" courses.

#### Concentrations

Students must select one of the following Concentrations:

Physical Fitness & Wellness Management	27-29
Pre-Athletic Training	
Pre-Physical Therapy	

#### Supporting Course Requirements

All Concentrations:

BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
NFA 201	Essentials of Nutrition	3
Choose from 15-26 hours of supporting courses		15-26
15 hours of Physical Fitness & Wellness Management		
25-26 hours of Pre-Athletic Training/Pre-Physical Therapy		

#### Free Electives

Choose from 14-16 hours of free electives		14-16
12-14 hours of Physical Fitness & Wellness Management		
Two-three hours of Pre-Athletic Training/Pre-Physical Therapy <sup>1</sup>		

**Total Hours** **120-135**

<sup>1</sup>

Two hours of free electives must be at or above the 300 level

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESS 407	Strength and Conditioning Programming	3
ESS 430	Fitness Program Administration	3
ESS 433	Adult Physical Fitness Programs	3
ESS 435	Group Fitness Instruction	3
ESS 472	Internship: Physical Fitness and Wellness Management <sup>1</sup>	6

ESS 517	Bioenergetics in Physical Activity	3
ESS 190 & ESS 390	Wellness Experience:____ and Lifetime Activity Series:____	5
ESS 241	Introduction to Swimming	1
ESS 313 or ESS 340	Lifeguard Training Water Safety Instructor	3
<i>Supporting Course Requirements</i>		
HEA 202	Community First Aid and CPR	3
HEA 320	Introduction to Behavior Change	3
HEA 315 or HEA 380	Issues in Health and Disease Mental Health Education	3
MGT 301	Principles of Management (NB)	3
MKT 301	Principles of Marketing (NB)	3
Current first aid & CPR certification at time of graduation		
<b>Total Hours</b>		<b>45</b>

1  
Students must document fifty (50) hours of Fitness & Wellness Management related experiences prior to enrolling in ESS 472 Internship: Physical Fitness and Wellness Management.

## Exercise & Sport Science, Bachelor of Science with a Concentration in Pre-Physical Therapy (B.S.)

### Program Requirements

CIP Code: 31.0505

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - ESS majors pursuing Physical Fitness & Wellness Management will use ESS 472, and those in the Pre-Physical Therapy and Pre-Athletic Training concentrations will use ATR 430. (Credit hours are incorporated into the major requirements below.)		
ESS 472	Internship: Physical Fitness and Wellness Management (Physical Fitness & Wellness Management)	
ATR 430	Foundations of Clinical Practice (Pre-Athletic Training/Pre-Physical Therapy)	

#### Major Requirements

<i>Core Courses</i>		
ESS 212	Care and Prevention of Athletic and Exercise Injuries	3
ESS 315	Physical Fitness Concepts and Applications	3
ESS 320	Biomechanics	3
ESS 325	Physiology of Activity	3
ESS 562	Adapted Physical Activity	3
ESS 575	Texts and Measurements	3

Current CPR certification required at time of graduation. Students within all ESS concentrations will take these common "core" courses.

#### Concentrations

Students must select one of the following Concentrations:		
Physical Fitness & Wellness Management		
Pre-Physical Therapy		61
Pre-Athletic Training		

#### *Supporting Course Requirements*

All Concentrations:		
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
NFA 201	Essentials of Nutrition	3

#### *Free Electives*

Choose from 6-7 hours of free electives		
<b>Total Hours</b>		<b>125</b>
1		

Two hours of free electives must be at or above the 300 level

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ATR 325	Applied Palpation Anatomy for Healthcare Providers	3
ATR 325L	Applied Palpation Anatomy for Healthcare Providers Lab	1

ATR 330	Foundations of Orthopedic Evaluation	3
ATR 340 & 340L	Foundations of Rehabilitation and Foundations of Rehabilitation Lab	3
ATR 430	Foundations of Clinical Practice	3
HSA 200	Medical Terminology	3
ESS 407	Strength and Conditioning Programming	3
ESS 517	Bioenergetics in Physical Activity	3
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	4
BIO 112	Ecology and Evolution	4
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
EMC 104	Healthcare Basic Life Support	1
MAT 120	Trigonometry (or higher)	3
PHY 131	College Physics I	5
PHY 132	College Physics II	5
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	3
PSY 280	Lifespan Developmental Psych.	3
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3
<b>Total Hours</b>		<b>61</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

For students interested in the Pre-Physical Therapy or Pre-Athletic Training concentrations, additional courses may be required outside of the Core, Concentration and Supporting courses to meet requirements of some post-baccalaureate professional programs.

# Exercise & Sport Science, Bachelor of Science with a Concentration in Pre#Athletic Training (B.S.)

## Program Requirements

CIP Code: 31.0505

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		

A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3

<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - ESS majors pursuing Physical Fitness & Wellness Management will use ESS 472, and those in the Pre-Physical Therapy and Pre-Athletic Training concentrations will use ATR 430. (Credit hours are incorporated into the major requirements below.)		
ESS 472	Internship: Physical Fitness and Wellness Management (Physical Fitness & Wellness Management)	
ATR 430	Foundations of Clinical Practice (Pre-Athletic Training/Pre-Physical Therapy)	

### Major Requirements

<i>Core Courses</i>		
ESS 212	Care and Prevention of Athletic and Exercise Injuries	3
ESS 315	Physical Fitness Concepts and Applications	3
ESS 320	Biomechanics	3
ESS 325	Physiology of Activity	3
ESS 562	Adapted Physical Activity	3
ESS 575	Texts and Measurements	3

Current CPR certification required at time of graduation. Students within all ESS concentrations will take these common "core" courses.

### Concentrations

Students must select one of the following Concentrations:		
Physical Fitness & Wellness Management		
Pre-Physical Therapy		
Pre-Athletic Training		38-39
<i>Supporting Course Requirements</i>		
All Concentrations:		
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
NFA 201	Essentials of Nutrition	3
<i>Free Electives</i>		
Choose from 18 hours of free electives		18
<b>Total Hours</b>		<b>120-121</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ATR 325	Applied Palpation Anatomy for Healthcare Providers	3
ATR 325L	Applied Palpation Anatomy for Healthcare Providers Lab	1
ATR 330	Foundations of Orthopedic Evaluation	3
ATR 340 & 340L	Foundations of Rehabilitation and Foundations of Rehabilitation Lab	3
ATR 430	Foundations of Clinical Practice	3
HSA 200	Medical Terminology	3
ESS 407	Strength and Conditioning Programming	3
ESS 517	Bioenergetics in Physical Activity	3
<b>Supporting Course Requirements</b>		
Choose from one of the following:		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution (Element 4) <sup>G</sup>	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
EMC 104	Healthcare Basic Life Support	1
MAT 120	Trigonometry (or higher)	3
PHY 131	College Physics I	5
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	3
STA 215 or STA 270	Introduction to Statistical Reasoning (Element 2) <sup>G</sup> Applied Statistics	3
<b>Total Hours</b>		<b>45</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

For students interested in Pre-Athletic Training/Pre-Physical Therapy, additional courses may be required outside of the Core, Concentration and Supporting courses to meet requirements of some post-baccalaureate professional programs.

## Exercise and Sport Science, Bachelor of Science (B.S.) and Athletic Training, Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Pre-Athletic Training

Students accepted to the B.S. Exercise and Sport Science to M.S. in Athletic Training 3+2 accelerated dual degree program will complete the B.S. in ESS: Pre-Athletic Training concentration and the MS in Athletic Training degree within 5 calendar years because 21 semester hours of graduate-level coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in

the accelerated 3+2 program, careful coordination with their advisor is required.

Admission requirements for graduate portion of the 3+2 programs adhere to the requirements for the M.S. in Athletic Training degree program in the Graduate Catalog. Students admitted into the program will remain coded as undergraduate until fulfilling their B.S. requirements. Students admitted into the 3+2 program must complete the B.S. in Exercise and Sport Science: Pre-Athletic Training Concentration degree with a minimum 3.0 GPA to be allowed to proceed on with graduate program coursework and then maintain a 3.0 GPA with graduate coursework to remain in the graduate courses. Students must fulfill all graduation requirements listed below. Students may apply to the Graduate School for admission to the 3+2 program in their junior year or senior year.

## Admissions Requirements:

### You must satisfy all the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 option
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Apply and be accepted into MS in AT Program (see requirements at <https://athletictraining.eku.edu/>)
5. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements

CIP Code: 31.0505/51.0913

Students in the 3+2 Accelerated Dual Degree Program must complete the listed BS in Exercise and Sport Science: Pre-Athletic Training requirements along with the requirements for the MS in Athletic Training. Eighteen credit hours of graduate-level course work are applicable to the undergraduate degree.

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
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### University Graduation Requirements

General Education	36
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#### Student Success Seminar

H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - majors pursuing Pre- Athletic Training concentration will use ATR 430. (Credit hours are incorporated into the major requirements below.)

### Major Requirements

#### Core Courses

ESS 212	Care and Prevention of Athletic and Exercise Injuries	3
ESS 315	Physical Fitness Concepts and Applications	3
ESS 320	Biomechanics	3
ESS 325	Physiology of Activity	3
ESS 562	Adapted Physical Activity	3
ESS 575	Texts and Measurements	3

Current CPR certification required at time of graduation. Students within all ESS concentrations will take these common "core" courses.

#### Concentrations

Students must select one of the following Concentrations: 68

#### Pre-Athletic Training

<b>Total Hours</b>	<b>123</b>
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## Concentration

Code	Title	Hours
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### Concentration Courses

ATR 325	Applied Palpation Anatomy for Healthcare Providers	3
ATR 325L	Applied Palpation Anatomy for Healthcare Providers Lab	1
ATR 330	Foundations of Orthopedic Evaluation	3
ATR 340 & 340L	Foundations of Rehabilitation and Foundations of Rehabilitation Lab	3
ATR 430	Foundations of Clinical Practice	3
HSA 200	Medical Terminology	3
ESS 407	Strength and Conditioning Programming	3
ESS 517	Bioenergetics in Physical Activity	3
ESS 807		
ESS 808		
ESS 809		
ESS 815		
ESS 802		

ESS 812 & 812L	Lifetime Fitness and Wellness and	4
ESS 813 & 813L	and	4

#### Supporting Course Requirements

BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
BIO 111 or BIO 112	Cell and Molecular Biology (Element 4) <sup>G</sup> Ecology and Evolution	4
CHE 111 or CHE 111L	General Chemistry (Element 4) <sup>G</sup> General Chemistry Lab I	4
EMC 104	Healthcare Basic Life Support	1
EMC 110	Introduction to Emergency Medical Care	3
EMC 110L	Introduction to Emergency Medical Care Laboratory	2
MAT 120	Trigonometry (or higher)	3
NFA 201	Essentials of Nutrition	3
PHY 131	College Physics I	5
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	3
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	4
<b>Total Hours</b>		<b>68</b>

#### G

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

## M.S. in Athletic Training Major Requirements

See M.S. in Athletic Training (p. 725) page.

# Exercise and Sport Science, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Physical Fitness & Wellness Management

Students accepted to the B.S. in Exercise and Sport Science to M.S. in Exercise and Sport Science 3+2 accelerated dual degree program will complete the B.S. in ESS: Physical Fitness and Wellness Management concentration and the M.S. in ESS: Exercise and Wellness Concentration within 5 calendar years because 9 semester hours of graduate-level coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required.

Admission requirements for the graduate portion of the 3+2 programs adhere to the requirements for the M.S. Exercise and Sport Science – Exercise and Wellness Concentration in the Graduate Catalog. Students admitted into the program will remain coded as undergraduate until fulfilling their B.S. requirements. Students admitted into the 3+2 program must complete the B.S. in Exercise and Sport Science: Physical Fitness & Wellness Management Concentration degree with a minimum 3.0 GPA

to be allowed to proceed on with graduate program coursework and then maintain a 3.0 GPA with graduate coursework to remain in the graduate courses. Students must fulfill all graduation requirements listed below. Students may apply to the Graduate School for admission to the 3+2 program in their junior or senior year.

## Admissions Requirements:

### You must satisfy all the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 option
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements:

Students in the 3+2 Accelerated Dual Degree Program must complete the listed BS in Exercise and Sport Science: Physical Fitness and Wellness Management requirements along with the requirements for the MS in Exercise and Sport Science: Exercise and Wellness concentration. Nine credit hours of graduate-level course work are applicable to the undergraduate degree.

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	

HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - ESS majors pursuing Physical Fitness & Wellness Management will use the following (Credit hours are incorporated into major requirements below.)		
ESS 472	Internship: Physical Fitness and Wellness Management (Physical Fitness & Wellness Management)	

### Major Requirements

Core Courses		
ESS 212	Care and Prevention of Athletic and Exercise Injuries	3
ESS 315	Physical Fitness Concepts and Applications	3
ESS 320	Biomechanics	3
ESS 325	Physiology of Activity	3
ESS 562	Adapted Physical Activity	3
ESS 575	Texts and Measurements	3

Current CPR certification required at time of graduation. Students within all ESS concentrations will take these common "core" courses.

### Concentrations

(each student in this accelerated dual degree program must complete the requirements for the Physical Fitness & Wellness Management concentration)

Students must select one of the following Concentrations:	29
Physical Fitness & Wellness Management	

### Supporting Course Requirements

All Concentrations:		
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
EMC 104	Healthcare Basic Life Support	1
ESS 812	Lifetime Fitness and Wellness	3
ESS 869	Org Behavior & Leadrshp in ESS	3
HEA 320	Introduction to Behavior Change	3
HEA 315	Issues in Health and Disease	3
or HEA 380	Mental Health Education	
MGT 301	Principles of Management (NB)	3
NFA 201	Essentials of Nutrition	3
NFA 201	Essentials of Nutrition	3

### Free Electives

Choose from 8-10 hours of free electives	8-10
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<b>Total Hours</b>	<b>120-122</b>
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### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESS 407	Strength and Conditioning Programming	3
ESS 430	Fitness Program Administration	3
ESS 433	Adult Physical Fitness Programs	3
ESS 435	Group Fitness Instruction	3

ESS 472	Internship: Physical Fitness and Wellness Management <sup>1</sup>	6
ESS 717	Bioenergetics & Phy Activity	3
ESS 190 & ESS 390	Wellness Experience:____ and Lifetime Activity Series:____	4
ESS 241	Introduction to Swimming	1
ESS 313 or ESS 340	Lifeguard Training Water Safety Instructor	3
<b>Total Hours</b>		<b>29</b>

1

Students must document fifty (50) hours of Fitness & Wellness Management related experiences prior to enrolling in ESS 472 Internship: Physical Fitness and Wellness Management.

M.S. Exercise and Sport Science: Exercise and Wellness Concentration Major Requirements

See M.S. in Exercise and Sport Science (p. 725): Exercise and Wellness concentration (p. 725) page.

## Sport Management, Bachelor of Science (B.S.)

The sport management major is offered both as a traditional on-campus degree program or 100% on-line degree program through e-Campus. The major in Sport Management prepares the student for administrative careers in recreational and competitive sports programs, fitness centers, and other sport-related organizations. The complexities and challenges of sports require a well-prepared professional with qualifications in sports programming, supervision, management, facility planning, promotions, and purchasing.

The Sport Management major provides a quality educational experience that will prepare the student for a career in the rapidly changing arena of sport. The students receive cutting-edge instruction in a practice major of study that culminates in an internship experience that gives the student the "hands-on" experience necessary to secure employment within the industry. The internship is offered cooperatively with a variety of sport organizations, including professional sports teams, college athletic departments, and community organizations.

Students majoring in Sport Management are strongly encouraged to also declare a minor in Business and take the additional nine hours required for the minor.

## Program Requirements

CIP Code: 31.0504

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3

B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Sports Management majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
ESS 470	Internship: Sport Management	

### Major Requirements

#### Core Courses

ESS 201	Foundations of Sport Science	3
ESS 322	Legal Issues in Sport	3
ESS 324	Policy and Governance in Sport	3
ESS 327	Sport in American Society	3
ESS 328	Sport Finance	3
ESS 400	Management of Sport Organizations	3
ESS 423	Psychology of Coaching	3
ESS 470	Internship: Sport Management <sup>1</sup>	6
ESS 530	Sport Communications	3

#### Supporting Course Requirements

BUS 204	Fundamentals of Business Law and Ethics	3
ACC 200	Survey of Accounting	3
MGT 301	Principles of Management (NB)	3
MKT 301	Principles of Marketing (NB)	3
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
CIS 212 or INF 104	Introduction to Computer Information Systems Computer Literacy with Software Applications	3

#### Free Electives

Choose from 38 hours of free electives

**Total Hours** **120**

1

Students are required to document a minimum of fifty (50) hours of appropriately related experiences prior to enrolling in ESS 470 Internship: Sport Management.

G

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

## Department of Health Promotion and Administration

### Interim Chair

Dr. Michelyn Bhandari  
(859) 622-1915  
Dizney 117

### Faculty

M. Ballard, M. Bhandari, P. Bryden, J. Hess, L. Larkin, J. Lasslo, A. MacDonald, M. McKinney, B. Moberly, M. Mundy, L. Schwartz, H. Tudor, and J. Vorbeck

The Department of Health Promotion and Administration is comprised of programs in: Health Services Administration and Public Health.

Admission to all programs is based on the regular admission policies of the University. Specific policies related to each discipline can be found following the program heading as listed.

### Bachelor's

- Health Services Administration, Bachelor of Science with a Concentration in Health Care Management (B.S.) (p. 219)
- Health Services Administration, Bachelor of Science with a Concentration in Health Informatics and Information Management (B.S.) (p. 221)
- Public Health, Bachelor of Science with a Concentration in Health Promotion (B.S.) (p. 226)
- Public Health, Bachelor of Science with a Concentration in Pre#Professional (B.S.) (p. 228)

### Accelerated

- Public Health, Bachelor of Science (B.S.) & Master of Public Health (M.P.H.) Accelerated 3 + 2 Dual Degree Program with a Concentration in Health Promotion (p. 223)
- Public Health, Bachelor of Science (B.S.) & Master of Public Health (M.P.H.) Accelerated 3 + 2 Dual Degree Program with a Concentration in Pre#Professional (p. 225)

### Minor

- Health Services Administration, Minor (p. 223)
- Public Health, Minor (p. 229)
- Substance Use Prevention, Minor (p. 230)

### Certificate

- Health Services Administration, Certificate (p. 223)
- Public Health, Certificate (p. 229)

## Courses

### Health Education

#### HEA 202. Community First Aid and CPR. (3 Credits)

I, II. Instruction and practice in first aid and safety procedures. Includes assessment and first aid procedures regarding life-threatening emergencies, injuries, medical emergencies, and rescues. Focus on prevention, as well as first aid. Includes American Red Cross certification in First Aid, Adult CPR with AED, child CPR, and Infant CPR. Credit will not be awarded for both HEA 202 and EMC 102.

#### HEA 216. Introduction to Public Health. (3 Credits)

I, II, A. Formerly HEA 316. An introduction to the public health discipline, the health of a population as influenced by social, cultural, behavioral, biological, environmental, and economic factors, and an overview of strategies to protect and promote the health in populations. Credit will not be awarded for both HEA 216 and HEA 316. Gen. Ed. E-5B [SB].

#### HEA 285. Health Across the Lifespan. (3 Credits)

I, II. Consideration of the various conditions and factors affecting individual and community health; special emphasis is on responsible decision-making, formulating philosophies, attitudes, and a behavioral understanding necessary to establish health living practices. Gen. Ed. VI. Fulfills University Wellness Requirement.

#### HEA 290. Foundations of Health Education. (3 Credits)

II. The history, foundational disciplines, and principles that led to the establishment of health education. The role of health education in the present health care system.

#### HEA 300. Infectious Dis. and Public Hea. (3 Credits)

I, II, A. Prerequisite: BIO 100 or higher. This course explores etiology, clinical signs and symptoms, prevention, and treatment of common infectious diseases. The course examines potential health outcomes. The course will incorporate health education, advocacy and communications to inform diverse populations. Credit will not be awarded for HEA 315 and HEA 300.

#### HEA 305. Chronic Disease & PublicHealth. (3 Credits)

I,II, A. Prerequisite: BIO 100 or higher. This course explores etiology, clinical signs and symptoms, prevention, and treatment of common chronic diseases. The course examines disease process and potential health outcomes. Students will identify effective health promotion strategies for chronic disease.

#### HEA 310. Introduction TO Global Health. (3 Credits)

(3) A. Prerequisite: ENG 102 or 105 or HON 102. Exploration of epidemiological, economic, political, sociological and cultural factors that impact global health with special emphasis on applying public health principles in developing as well as developed countries. Gen. Ed. Element 6.

#### HEA 315. Issues in Health and Disease. (3 Credits)

II. Etiology, effects, remediation, and prevention of disease. Nature of health and environmental issues and forces which shape them.

#### HEA 320. Introduction to Behavior Change. (3 Credits)

I, II. Examine theories and models of health behavior relevant to health education in individuals and communities. Students analyze influences on behavior, and evaluate strategies for health education.

#### HEA 345. Drugs, the Individual, and Society. (3 Credits)

I, II. Effect of drug use and abuse on the individual and society. Personal and community approaches for promoting intelligent decision making regarding drugs.

**HEA 349. Applied Learning in Public Health. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in a cooperative placement related to a student's academic studies. Credit varies with hours of employment; one to eight hours per semester or summer. May be retaken to a maximum of 12 hours. Minimum 80 hours employment required for each semester hour credit.

**HEA 349A. Cooperative Study: Public Health. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in a cooperative placement related to a student's academic studies. Credit varies with hours of employment; one to eight hours per semester or summer. May be retaken to a maximum of 12 hours. Minimum 80 hours employment required for each semester hour credit.

**HEA 349B. Cooperative Study: Public Health. (0.5-8 Credits)**

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

**HEA 349C. Cooperative Study: Public Health. (0.5-8 Credits)**

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

**HEA 349D. Cooperative Study: Public Health. (0.5-8 Credits)**

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

**HEA 349E. Cooperative Study: Public Health. (0.5-8 Credits)**

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

**HEA 349F. Cooperative Study: Public Health. (0.5-8 Credits)**

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

**HEA 349G. Cooperative Study: Public Health. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in a cooperative placement related to a student's academic studies. Credit varies with hours of employment; one to eight hours per semester or summer. May be retaken to a maximum of 12 hours. Minimum 80 hours employment required for each semester hour credit.

**HEA 350. Interpretation of Health Data. (3 Credits)**

I. Formerly HEA 450. Understanding graphical, statistical, and research techniques used in health. Developing competencies in analyzing and interpreting research results.

**HEA 375. Family Life Education. (3 Credits)**

I. Biophysical and psycho social aspects of sexuality and relationships, with emphasis on choices affecting health and well-being. Focuses on developing skills in teaching and facilitating positive behavior changes for people working in schools and communities.

**HEA 380. Mental Health Education. (3 Credits)**

I. Basic needs for mental and emotional wellness. Emphasis in the selection of appropriate activities for promoting mental health through community agencies.

**HEA 410. Social Marketing and Advocacy in Public Health. (3 Credits)**

Prerequisites: Senior standing or departmental approval. Introduction to current theory and knowledge in the fields of social marketing and advocacy in public health and application of social marketing and advocacy used for promoting health behavior change strategies.

**HEA 455. Introduction to Epidemiology. (3 Credits)**

I, A. Factors that affect the occurrence and courses of diseases; causative agents, susceptible hosts, favorable environments, and the effective use of statistical epidemiological methods.

**HEA 480W. Health Promotion Program Planning. (3 Credits)**

I. Prerequisites: ENG 102 or ENG 105(B) or HON 102, restricted to majors or minors in Health Education or Public Health. A writing intensive course that is an introduction to principles, strategies, and skills which are necessary for the planning and implementation of health education and health promotion programs in a diversity of settings. Credit will not be awarded for both HEA 480W and HEA 480.

**HEA 485. Community Org & Policy Dev. (3 Credits)**

I, II, A. Prerequisite: Junior or senior standing or department approval. An analysis of community organizing and health policy development by examining community culture, the process of community organizing and coalition building, and the formation of a policy strategy to address policy issues affecting population health.

**HEA 490. Evaluation of Health Promotion Programs. (3 Credits)**

I, II. Prerequisite: HEA 480 or departmental approval. This course will provide an introduction to principles, strategies, and skills for the evaluation of health promotion programs in a variety of settings. Credit will not be awarded for both HEA 490 and HEA 580.

**HEA 497. Senior Seminar: Public Health. (3 Credits)**

I, II, A. Formerly HEA 420. Prerequisite or Corequisite: HEA 480W and junior or senior standing. Public Health major or departmental approval. Students will draw together skills and knowledge needed to enter the workforce, and will review core competencies required of the entry level public health professional. Credit will not be awarded for both HEA 420 and HEA 497.

**HEA 498. Community Health Ed. Process. (3 Credits)**

I, II, A. (Formerly HEA 460) Prerequisite or corequisite: HEA 316 or departmental approval. Planning, organizing, delivering, and evaluating the community health education program. Credit will not be awarded for HEA 460 and HEA 498.

**HEA 499. Internship in Public Health. (1-6 Credits)**

I, II, A. Formerly HEA 463. Prerequisites: HEA 420 or 497 or departmental approval. Supervised experiences for seniors in the directing of public health activities in various settings. May be retaken to a maximum of six hours. Credit will not be awarded for both HEA 463 and HEA 499.

**HEA 590. Health Education:\_\_\_\_. (1-3 Credits)**

Study of pertinent problems in health education. Includes topics such as aging, consumer health, child abuse, teenage pregnancy, elementary school health curriculum, drug education, school health services, health deviations among students, sexually transmitted diseases, etc. May be retaken with advisor approval provided subtitle is different.

**HEA 591. Women's Health. (3 Credits)**

A. Cross listed as WGS 591. Analysis of the major health problems of contemporary women with a special emphasis on health promotion, disease prevention, and consumer health concerns. Credit will not be awarded to students who have credit for WGS 591.

**HEA 592. Human Sexuality. (3 Credits)**

A. Cross listed as WGS 592. Study of the biological, social, and psychological aspects of human sexuality. Directed primarily toward those individuals in situations which require them to assist others in understanding the broad impact of one's sexuality. Emphasis is placed upon student development of logical and reasoned justifications for their own value system. Credit will not be awarded to students who have credit for WGS 592.

**HEA 593. Death and Grief. (3 Credits)**

A. Cross listed as WGS 593. A study of attitudes, behaviors, and issues concerning death and grief. Topics include responses to death and grief throughout the life cycle; process of grief and bereavement; theology and death; legal aspects of dying; care of the dying; suicide; post-mortem care; death education. Credit will not be awarded to students who have credit for WGS 593.

**HEA 594. Substance Use Prevention Skill. (3 Credits)**

I,II, A. Prerequisite: Junior or senior standing. A substance use prevention approach using a strategic prevention framework to develop the knowledge and skills needed to plan, implement, and evaluate effective, data-driven programs and practices that reduce behavioral health disparities and improve wellness.

**Health Services Administration****HSA 100. Health Care Delivery Systems. (3 Credits)**

I, II. Overview of U.S. health care: history, factors influencing health and health care, identification and organization of health facilities and professionals, health economics, health trends, and ethics.

**HSA 200. Medical Terminology. (3 Credits)**

I, II. Formerly Mas 200. Basic medical vocabulary consisting of prefixes, suffixes, roots, anatomical, symptomatic, and common disease terms of body systems.

**HSA 302. Organization and management of Health Services. (3 Credits)**

I, II. Prerequisite: HSA 100 (minimum grade of "C") and a minimum 2.75 ECU GPA. Analysis of structure function, and internal and external forces impacting healthcare services. Identification of management topics and trends.

**HSA 303. Fundamentals of Medical Science. (3 Credits)**

I, II. Formerly HSA 203. Prerequisites: HSA 200, BIO 307 and BIO 308 each with a minimum grade of "C" and a minimum 2.75 ECU GPA. An introduction to the study of disease its causes, symptoms, and treatment.

**HSA 306. Clinical Classification Systems. (3 Credits)**

I, II. Prerequisite: HSA 302 and 303 with a minimum grade of "C" or departmental approval. Clinical classifications, coding and reimbursement systems for physician and hospital services.

**HSA 370. Health Information Management. (3 Credits)**

I, II. Prerequisite: HSA 302. Prerequisite or Co-requisite: INF 314 with a minimum grade of C. Health information systems, systems analysis, and healthcare database management.

**HSA 372. Health Care Reimbursement. (3 Credits)**

I, II. Prerequisite: HSA 302 and 306 (minimum grade of  $\geq C$ ). An in-depth analysis of health care reimbursement systems; health insurance fraud and abuse; and procedures for patient accounting and cash flow forecasting.

**HSA 375. Health Services Administration. (3 Credits)**

I, II. Prerequisites: MGT 301 or 300; HSA 302 (minimum grade of "C"). Prerequisite or co-requisite: MGT 320 or POL 376. Application of financial principles, strategic planning, marketing, and leadership skills to selected health care organizations.

**HSA 401. Legal Issues in Health Care. (3 Credits)**

I, II. Prerequisite: HSA 100 minimum grade of "C" and a minimum 2.75 ECU GPA. Overview of U.S. legal system, patient privacy, and liability related to medical records and health care issues.

**HSA 405. Clinical Information Management. (3 Credits)**

I, II. Prerequisites: HSA 370 (minimum grade of "C"). Review of health trends related to the management of clinical information systems.

**HSA 406. Health Care Quality Management. (3 Credits)**

I, II. Prerequisites: HSA 302, STA 215, or 270 (each with a minimum grade of "C"). A study of total quality management, utilization review, and risk management functions in a health care setting.

**HSA 407. Advanced Health Services Administration. (3 Credits)**

I, II. Prerequisite: HSA 375 (minimum grade of  $\geq C$ ). Advanced study in trends relating to the management of health care organizations and the leadership role of health services administrators.

**HSA 409. Health Services Research Meth. (3 Credits)**

I, II. Prerequisites: HSA 302, STA 215, or 270 (each with a minimum grade of "C"). Introduction to health care research methods, related terminology and statistical techniques.

**HSA 409W. Health Services Research Methods. (3 Credits)**

I, II. Prerequisites: ENG 102 or 102R, 105(B), or HON 102, HSA 302, STA 215 or 270 with a minimum grade of C. Introduction to health care research methods, related terminology and statistical techniques. Credit will not be awarded for both HSA 409 and HSA 409W.

**HSA 411. Professional Practice Experience. (1 Credit)**

I, II. Prerequisite: department approval. Internship assignment to a health care organization for observation and practice of supervisory functions.

**HSA 412. Professional Practice Experience II. (1-6 Credits)**

(1) I, II. Prerequisite: department approval. Internship assignment within the field of health information management for observation and practice of data management functions.

**HSA 413. Professional Practice Experience III. (3 Credits)**

I, II. Prerequisite: department approval. Internship assignment to health care organizations for observation and practice of management functions.

**HSA 415. Professional Certification. (1 Credit)**

(1) I,II. Corequisite: HSA 413. Preparation for the Registered Health Information Administrator (RHIA) certification exam. Course focuses on the content domains included on the exam and development of general test-taking skills.

**HSA 450. Hlthcare Info Systems Dev. (2 Credits)**

Prerequisite: Departmental Approval. The use of systems analysis and development procedures to select and implement appropriate health information management systems in healthcare organizations.

**HSA 498. Independent Study. (1-6 Credits)**

A. Prerequisite: student must have the independent study proposal approved by faculty supervisor and department chair prior to enrollment. Directed study or research on an issue or area of interest to the field of health services administration. May be retaken to a maximum of six hours.

## Health Services Administration, Bachelor of Science with a Concentration in Health Care Management (B.S.)

The department offers a baccalaureate degree in Health Services Administration with concentrations in Health Care Management and Health Informatics and Information Management.

### Health Care Management Concentration

This concentration gives individuals interested in the administrative aspects of healthcare an interdisciplinary curriculum designed to provide a balance between business and healthcare. This concentration prepares

students for entry-level staff and management positions in health care settings.

## Pre-HSA Curriculum

All students who are accepted by the EKU Admissions Office and declare their major as Health Services Administration are initially placed into a pre-HSA curriculum. The curriculum includes:

Code	Title	Hours
ACC 200	Survey of Accounting	3
INF 104	Computer Literacy with Software Applications	3
INF 314	MS Office & Data Analysis	3
CMS 100 or CMS 210	Introduction to Human Communication Public Speaking	3
HSA 100	Health Care Delivery Systems	3
HSA 200	Medical Terminology	3
MAT 105 or MAT 114	Mathematics with Applications College Algebra	3
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3

Students may apply for HSA program admission when the following requirements are met:

- Institutional GPA of 2.75 or higher
- Completion of each course in the Pre-HSA curriculum with a grade of C or better after a maximum of two attempts.
- Completion of general education requirements (at least 75%)

Students who meet the minimum requirements will be accepted into the program within the enrollment limits determined by the faculty. The Program reserves the right to accept only the best qualified applicants who meet the minimum requirements.

## Admission/Progression Criteria

All majors utilize the regular admission policy of the University for students taking courses offered during the first semester of the program. In order to continue in the program and to enroll in major courses, the student must meet the following criteria:

1. maintain an institutional GPA of 2.75 on a 4.0 scale and
2. complete all major and support courses with a minimum grade of "C" after a maximum of two attempts.

A student who is not allowed to continue in the major may appeal the decision by presenting the reasons in writing to the Program's Admission and Progression Committee. The student may appeal this committee's decision to the College Admission Committee by submitting a written request to the Dean of Health Sciences. The decision of this committee shall be final.

## Professional Practice Experience

An important part of the curriculum is professional practice experience in which the student is required to spend part of a semester at a hospital or other health care facility for observation and supervised practice of the skills required for entry into the profession.

Some sites may require health screening such as physical examinations, background check, drug screens, and/or proof of immunizations. The

student is responsible for these expenses and for living expenses and travel involved in relocation for these assignments.

## Program Requirements

CIP Code: 51.0706

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSA 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Health Services Administration majors will fulfill ACCT with the following. (These courses are included in the Major totals)		
HSA 413	Professional Practice Experience III	
<b>Major Requirements</b>		
<i>Core Courses</i>		
HSA 200	Medical Terminology	3
HSA 302	Organization and management of Health Services	3
HSA 372	Health Care Reimbursement	3
HSA 375	Health Services Administration	3
HSA 401	Legal Issues in Health Care	3
HSA 406	Health Care Quality Management	3
HSA 407	Advanced Health Services Administration	3
HSA 409W	Health Services Research Methods	3
HSA 413	Professional Practice Experience III	3

**Concentrations**

Students must select one of the following Concentrations:

Health Care Management	19
Health Informatics and Information Management	

*Supporting Course Requirements*

All Concentrations:

ACC 200	Survey of Accounting	3
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Choose from one of the following:

CMS 100	Introduction to Human Communication	
CMS 210	Public Speaking (Element 1C) <sup>G</sup>	
INF 104	Computer Literacy with Software Applications	3
INF 314	MS Office & Data Analysis	3
MAT 105	Mathematics with Applications (Element 2) <sup>G</sup>	
MGT 301	Principles of Management (NB)	3
MGT 320	Human Resource Management	3
or POL 376	Public Human Resources	
STA 215	Introduction to Statistical Reasoning	3

Choose from 6-15 hours of supporting courses 6-15

15 hours of Health Care Management

Six hours of Health Informatics and Information Management

*Free Electives*

Choose from 13-19 hours of free electives 13-19

19 hours of Health Care Management

18 hours of Health Informatics and Information Management

**Total Hours 120-135**

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
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**Concentration Courses**

HSA 100	Health Care Delivery Systems	3
HSA 411	Professional Practice Experience	1

*Supporting Course Requirements*

ECO 230	Fundamentals of Microeconomics	3
MKT 301	Principles of Marketing (NB)	3
HEA 216	Introduction to Public Health	3

Choose from six hours of the following: 6

BIO 307 Human Anatomy and Physiology I

BIO 308 Human Anatomy and Physiology II

BUS 304 Essentials of MIS

CMS 353 Health Communication

BUS 204 Fundamentals of Business Law and Ethics

HEA 455 Introduction to Epidemiology

PUB 375 Public Relations Principles

Other department approved course

**Total Hours 19**

## Health Services Administration, Bachelor of Science with a Concentration in Health Informatics and Information Management (B.S.)

The department offers a baccalaureate degree in Health Services Administration with concentrations in Health Care Management and Health Informatics and Information Management.

### Health Informatics and Information Management Concentration

This concentration provides a diverse curriculum that provides individuals with a strong background in health care management, health data analytics, health data management, and computer applications in health care. This concentration is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Graduates of this concentration are eligible to sit for the Registered Health Information Administrator (RHIA) exam.

### Pre-HSA Curriculum

All students who are accepted by the ECU Admissions Office and declare their major as Health Services Administration are initially placed into a pre-HSA curriculum. The curriculum includes:

Code	Title	Hours
ACC 200	Survey of Accounting	3
INF 104	Computer Literacy with Software Applications	3
INF 314	MS Office & Data Analysis	3
CMS 100	Introduction to Human Communication	3
or CMS 210	Public Speaking	
HSA 100	Health Care Delivery Systems	3
HSA 200	Medical Terminology	3
MAT 105	Mathematics with Applications	3
or MAT 114	College Algebra	
STA 215	Introduction to Statistical Reasoning	3
or STA 270	Applied Statistics	

Students may apply for HSA program admission when the following requirements are met:

- Institutional GPA of 2.75 or higher
- Completion of each course in the Pre-HSA curriculum with a grade of C or better after a maximum of two attempts.
- Completion of general education requirements (at least 75%)

Students who meet the minimum requirements will be accepted into the program within the enrollment limits determined by the faculty. The Program reserves the right to accept only the best qualified applicants who meet the minimum requirements.

### Admission/Progression Criteria

All majors utilize the regular admission policy of the University for students taking courses offered during the first semester of the program. In order to continue in the program and to enroll in major courses, the student must meet the following criteria:

1. maintain an institutional GPA of 2.75 on a 4.0 scale and
2. complete all major and support courses with a minimum grade of "C" after a maximum of two attempts.

A student who is not allowed to continue in the major may appeal the decision by presenting the reasons in writing to the Program's Admission and Progression Committee. The student may appeal this committee's decision to the College Admission Committee by submitting a written request to the Dean of Health Sciences. The decision of this committee shall be final.

### Professional Practice Experience

An important part of the curriculum is professional practice experience in which the student is required to spend part of a semester at a hospital or other health care facility for observation and supervised practice of the skills required for entry into the profession.

Some sites may require health screening such as physical examinations, background check, drug screens, and/or proof of immunizations. The student is responsible for these expenses and for living expenses and travel involved in relocation for these assignments.

## Program Requirements

CIP Code: 51.0706

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
HSA 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Health Services Administration majors will fulfill ACCT with the following. (These courses are included in the Major totals)		
HSA 413	Professional Practice Experience III	

### Major Requirements

<i>Core Courses</i>		
HSA 200	Medical Terminology	3
HSA 302	Organization and management of Health Services	3
HSA 372	Health Care Reimbursement	3
HSA 375	Health Services Administration	3
HSA 401	Legal Issues in Health Care	3
HSA 406	Health Care Quality Management	3
HSA 407	Advanced Health Services Administration	3
HSA 409W	Health Services Research Methods	3
HSA 413	Professional Practice Experience III	3

### Concentrations

Students must select one of the following Concentrations:

Health Care Management		
Health Informatics and Information Management		20

### Supporting Course Requirements

All Concentrations:

ACC 200	Survey of Accounting	3
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Choose from one of the following:

CMS 100 Introduction to Human Communication		
CMS 210 Public Speaking (Element 1C) <sup>G</sup>		
INF 104	Computer Literacy with Software Applications	3
INF 314	MS Office & Data Analysis	3
MAT 105 Mathematics with Applications (Element 2) <sup>G</sup>		
MGT 301	Principles of Management (NB)	3
MGT 320	Human Resource Management	3
or POL 376 Public Human Resources		
STA 215	Introduction to Statistical Reasoning	3

Choose from 6-15 hours of supporting courses

15 hours of Health Care Management		
Six hours of Health Informatics and Information Management		

### Free Electives

Choose from 18-19 hours of free electives		18-19
19 hours of Health Care Management		
18 hours of Health Informatics and Information Management		

**Total Hours 120-121**

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
HSA 303	Fundamentals of Medical Science	3
HSA 306	Clinical Classification Systems	3
HSA 370	Health Information Management	3
HSA 405	Clinical Information Management	3

HSA 412	Professional Practice Experience II	1
HSA 415	Professional Certification	1
<i>Supporting Course Requirements</i>		
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
<b>Total Hours</b>		<b>20</b>

## Health Services Administration, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
HSA 100	Health Care Delivery Systems	3
HSA 200	Medical Terminology	3
HSA 302	Organization and management of Health Services	3
HSA 303	Fundamentals of Medical Science <sup>1</sup>	4
HSA 401	Legal Issues in Health Care	3
Choose from three hours of approved HSA electives <sup>2</sup>		3
<b>Total Hours</b>		<b>19</b>

1

Course may have prerequisite or corequisite

2

Students may use any additional HSA course to satisfy the 3-hour elective. The only exceptions to this policy are the professional practice experience courses (HSA 411 Professional Practice Experience, HSA 412S and HSA 413 Professional Practice Experience III). These courses are only taken by students majoring in Health Services Administration.

## Health Services Administration, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
HSA 100	Health Care Delivery Systems	3
HSA 200	Medical Terminology	3
HSA 302	Organization and management of Health Services	3
HSA 401	Legal Issues in Health Care	3
Choose from six hours of the following		6
HSA 303	Fundamentals of Medical Science	
HSA 306	Clinical Classification Systems	
HSA 370	Health Information Management	
HSA 372	Health Care Reimbursement	
HSA 405	Clinical Information Management	
HSA 406	Health Care Quality Management	
HSA 409W	Health Services Research Methods	
HSA 375	Health Services Administration	
BUS 204	Fundamentals of Business Law and Ethics	
BUS 304	Essentials of MIS	

CMS 353	Health Communication
HEA 455	Introduction to Epidemiology
PHI 383W	Health and Biomedical Ethics
PUB 375	Public Relations Principles
or other department approved course	
<b>Total Hours</b>	<b>18</b>

## Public Health, Bachelor of Science (B.S.) & Master of Public Health (M.P.H.) Accelerated 3 + 2 Dual Degree Program with a Concentration in Health Promotion

Students may apply for admission to the Accelerated 3+2 Dual Degree program in their junior or senior year. When applying for admission, the student must select either a Health Promotion concentration or a Pre-Professional concentration. Students are able to complete their B.S. degree and M.P.H. degree within 5 calendar years because of the accelerated curriculum and because 9 semester hours of 800-level graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.P.H. degree. Only undergraduate students of proven academic ability will be considered for the program.

Entrance requirements for the 3+2 program must adhere to the same requirements for the Master of Public Health Program in the Graduate Catalog, except entrance examinations (e.g. GRE) are not required for the 3+2 program. Students must fulfill all graduation requirements listed below. Students admitted into the program will remain coded as undergraduate until fulfilling their B.S. requirements. Students admitted into the 3+2 program must complete the Public Health B.S. degree with a minimum 3.0 GPA to be allowed to proceed with graduate program coursework.

Students who complete the Pre-Professional Concentration receive training in Public Health along with preparation for professional health-related graduate programs such as medicine, dentistry, osteopathy, veterinary medicine, or physician associate. Students in the Pre-Professional Concentration will be assigned to a Public Health advisor and should also consult with a pre-professional health advisor from the College of Science to ensure adequate preparation for professional entrance exams and the professional school application process. Students are responsible for ensuring they have the correct prerequisites for the professional program of their choice.

### Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements

CIP Code: 51.2207

Students in 3+2 Accelerated Dual Degree program must complete the listed Public Health (B.S.) program requirements along with the same requirements for the M.P.H. Program (presented in the Graduate Catalog: listing at <http://gradschool.eku.edu/graduate-catalog> (<http://gradschool.eku.edu/graduate-catalog/>)). Nine (9) credit hours of 800-level graduate coursework (MPH 810 Human Behavior Change, MPH 830 Biostatistics in Health Sci, and MPH 855 Principles of Epidemiology) are applicable to the undergraduate degree.

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT - Public Health majors will fulfill ACCT with the following. (These courses are included in the Major totals.)	
HEA 499	Internship in Public Health	
<b>Major Requirements</b>		
<i>Core Courses</i>		
HEA 216	Introduction to Public Health	3
HEA 290	Foundations of Health Education	3
HEA 310	Introduction TO Global Health	3
HEA 345	Drugs, the Individual, and Society	3

HEA 380	Mental Health Education	3
HEA 485	Community Org & Policy Dev	3
HEA 497	Senior Seminar: Public Health	3
HEA 499	Internship in Public Health	3
HEA 592	Human Sexuality	3
MPH 810	Human Behavior Change	3
MPH 830	Biostatistics in Health Sci	3
MPH 855	Principles of Epidemiology	3

#### Concentrations

Students must select one of the following Concentrations:

Health Promotion	47
Pre-Professional	
<i>Supporting Course Requirements</i>	
Choose from 9-41 hours of supporting courses	
Nine hours of Health Promotion	
40-41 hours of Pre-Professional	
<i>Free Electives</i>	
Choose from 0-11 hours of free electives	0-11
11 hours of Health Promotion	
0 hours of Pre-Professional	
<b>Total Hours</b>	<b>120-131</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
HEA 300	Infectious Dis. and Public Hea	3
HEA 305	Chronic Disease & PublicHealth	3
HEA 350	Interpretation of Health Data	3
HEA 410	Social Marketing and Advocacy in Public Health	3
HEA 480W	Health Promotion Program Planning	3
HEA 498	Community Health Ed. Process	3
Choose from six hours of the following:	6	
HEA 590	Health Education:___	
HEA 591	Women's Health	
HEA 593	Death and Grief	
HEA 594	Substance Use Prevention Skill	
<i>Supporting Course Requirements</i>		
NFA 201	Essentials of Nutrition	3
Choose from six hours of the following:	6	
HLS 101	Introduction to Homeland Security	
HLS 260	Disaster Preparedness & Response	
HSA 100	Health Care Delivery Systems	
HSA 302	Organization and management of Health Services	
HSA 401	Legal Issues in Health Care	
NFA 447	Food Culture and Systems	
REC 280	Programming Special Events	
SJS 101	Understanding Social Justice and Human Struggle	
SJS 313	Mobilizing for Social Justice	
SOC 235	Social Problems	
SOC 365	Social Change in Appalachia	

*Free Electives*

Choose from 14 hours of free electives	14
<b>Total Hours</b>	<b>47</b>

### Master of Public Health with a Concentration in Health Promotion (M.P.H.)

See Master of Public Health with a Concentration in (p. 731)Health Promotion (offered by the Department of Health Promotion & Administration) (M.P.H.)

### Master of Public Health with a Concentration in Environmental/Occupational Health & Sustainability (M.P.H.)

See Master of Public Health with a Concentration in (p. 729)Environmental/Occupational Health & Sustainability (offered by the Department of Environmental Health Science) (M.P.H.)

## Public Health, Bachelor of Science (B.S.) & Master of Public Health (M.P.H.) Accelerated 3 + 2 Dual Degree Program with a Concentration in Pre-Professional

Students may apply for admission to the Accelerated 3+2 Dual Degree program in their junior or senior year. When applying for admission, the student must select either a Health Promotion concentration or a Pre-Professional concentration. Students are able to complete their B.S. degree and M.P.H. degree within 5 calendar years because of the accelerated curriculum and because 9 semester hours of 800-level graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.P.H. degree. Only undergraduate students of proven academic ability will be considered for the program.

Entrance requirements for the 3+2 program must adhere to the same requirements for the Master of Public Health Program in the Graduate Catalog, except entrance examinations (e.g. GRE) are not required for the 3+2 program. Students must fulfill all graduation requirements listed below. Students admitted into the program will remain coded as undergraduate until fulfilling their B.S. requirements. Students admitted into the 3+2 program must complete the Public Health BS degree with a minimum 3.0 GPA to be allowed to proceed with graduate program coursework.

Students who complete the Pre-Professional Concentration receive training in Public Health along with preparation for professional health-related graduate programs such as medicine, dentistry, osteopathy, veterinary medicine, or physician associate. Students in the Pre-Professional Concentration will be assigned to a Public Health advisor and should also consult with a pre-professional health advisor from the College of Science to ensure adequate preparation for professional entrance exams and the professional school application process. Students are responsible for ensuring they have the correct prerequisites for the professional program of their choice.

### Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements

CIP Code: 51.2207

Students in 3+2 Accelerated Dual Degree program must complete the listed Public Health (B.S.) program requirements along with the same requirements for the M.P.H. Program (presented in the Graduate Catalog: listing at <http://gradschool.eku.edu/graduate-catalog> (<http://gradschool.eku.edu/graduate-catalog/>)). Nine (9) credit hours of 800-level graduate coursework (MPH 810 Human Behavior Change, MPH 830 Biostatistics in Health Sci, and MPH 855 Principles of Epidemiology) are applicable to the undergraduate degree.

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT - Public Health majors will fulfill ACCT with the following. (These courses are included in the Major totals.)

HEA 499	Internship in Public Health	
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**Major Requirements**

*Core Courses*

HEA 216	Introduction to Public Health	3
HEA 290	Foundations of Health Education	3
HEA 310	Introduction TO Global Health	3
HEA 345	Drugs, the Individual, and Society	3
HEA 380	Mental Health Education	3
HEA 485	Community Org & Policy Dev	3
HEA 497	Senior Seminar: Public Health	3
HEA 499	Internship in Public Health	3
HEA 592	Human Sexuality	3
MPH 810	Human Behavior Change	3
MPH 830	Biostatistics in Health Sci	3
MPH 855	Principles of Epidemiology	3

**Concentrations**

Students must select one of the following Concentrations:

Health Promotion	
Pre-Professional	50-51

*Supporting Course Requirements*

Choose from 9-41 hours of supporting courses	
40-41 hours of Pre-Professional	

*Free Electives*

Choose from 0-11 hours of free electives	0-11
11 hours of Health Promotion	
0 hours of Pre-Professional	

<b>Total Hours</b>	<b>123-135</b>
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**Concentration**

Code	Title	Hours
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**Concentration Courses**

HEA 350	Interpretation of Health Data	3
HEA 410	Social Marketing and Advocacy in Public Health	3
HEA 460		3
HEA 480W	Health Promotion Program Planning	3

*Supporting Course Requirements*

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution	4
BIO 348	Vertebrate Physiology	3
BIO 320	Principles of Microbiology	3-4
or BIO 331	Cell Biology	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3
MAT 120	Trigonometry (or higher) (Element 2) <sup>G</sup>	

NFA 201	Essentials of Nutrition	3
PHY 131	College Physics I	5
PHY 132	College Physics II	5
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	

<b>Total Hours</b>	<b>50-51</b>
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**G**

Course also satisfied a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Master of Public Health with a Concentration in Health Promotion (M.P.H.)**

See Master of Public Health with a Concentration in (p. 731)Health Promotion (offered by the Department of Health Promotion & Administration) (M.P.H.)

**Master of Public Health with a Concentration in Environmental/Occupational Health & Sustainability (M.P.H.)**

See Master of Public Health with a Concentration in (p. 729)Environmental/Occupational Health & Sustainability (offered by the Department of Environmental Health Science) (M.P.H.)

**Public Health, Bachelor of Science with a Concentration in Health Promotion (B.S.)**

Public Health offers the Bachelor of Science degree in Public Health with a Health Promotion Concentration, a Pre-Professional Concentration, and the Bachelor of Science degree in Public Health and Master of Public Health Accelerated 3 + 2 Dual Degree Accelerated Pathway with a Health Promotion concentration and a Pre-Professional Concentration. Students who complete the Health Promotion concentration, the Pre-Professional Concentration, or the accelerated pathway are prepared to determine the health needs of the community and plan and implement effective programs to improve the health of the populations they serve. Health Promotion Specialists may work in Public Health Departments, Volunteer Organizations, Hospitals, and Family Resource Centers. Students who complete the Pre-Professional Concentration receive training in Public Health along with preparation for professional health related graduate programs such as medicine, dentistry, osteopathy, veterinary medicine, or physician associate. Students in the Pre-Professional Concentration will be assigned to a Public Health advisor and should also consult with a pre-professional health advisor from the College of Science to ensure adequate preparation for professional entrance exams and the professional school application process. Students are responsible for ensuring they have the correct prerequisites for the professional program of their choice.

A student may choose a minor in Public Health. The Bachelor of Science program in Public Health is accredited by the Council on Education for Public Health.

Students who transfer from another college or university must earn a minimum of 12 hours at EKU in the major. Students who transfer from another college or university must earn a minimum of six hours at EKU in the minor. Students who are accepted by the EKU Admissions Office and declare their major as Public Health with a concentration in Health Promotion or Pre-Professional Concentration must maintain an overall

GPA of 2.25 with a grade of “C” or better in all of the required major and supporting courses found in the Public Health Curriculum.

## Professional Liability Insurance

Students enrolling in HEA 499 Internship in Public Health in the Department of Health Promotion and Administration are required to register for student Professional Liability Insurance. This fee is listed in each semester’s schedule of classes. Please see the section on Student Liability Insurance for the College of Health Sciences.

## Program Requirements

CIP Code: 51.2207

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Public Health majors will fulfill ACCT with the following. (This course is included in the Major total.)		
HEA 499	Internship in Public Health	

### Major Requirements

#### Core Courses

HEA 216	Introduction to Public Health	3
HEA 290	Foundations of Health Education	3
HEA 310	Introduction TO Global Health	3

HEA 320	Introduction to Behavior Change	3
HEA 345	Drugs, the Individual, and Society	3
HEA 380	Mental Health Education	3
HEA 455	Introduction to Epidemiology	3
HEA 485	Community Org & Policy Dev	3
HEA 497	Senior Seminar: Public Health	3
HEA 499	Internship in Public Health	3
HEA 592	Human Sexuality	3

### Concentrations

Students must select one of the following Concentrations:

Health Promotion	47-53
Pre-Professional	
<i>Supporting Course Requirements</i>	
Choose from 9-42 hours of supporting courses	
9-12 hours of Health Promotion	
40-42 hours of Pre-Professional	
<i>Free Electives</i>	
Choose from 0-17 hours of free electives	3-17
14-17 hours of Health Promotion	
0 hours of Pre-Professional	

**Total Hours 120-140**

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
HEA 300	Infectious Dis. and Public Hea	3
HEA 305	Chronic Disease & PublicHealth	3
HEA 350	Interpretation of Health Data	3
HEA 410	Social Marketing and Advocacy in Public Health	3
HEA 498	Community Health Ed. Process	3
HEA 480W	Health Promotion Program Planning	3
Choose from six hours of the following:	6	
HEA 590	Health Education:___	
HEA 591	Women’s Health	
HEA 593	Death and Grief	
HEA 594	Substance Use Prevention Skill	

### Supporting Course Requirements

NFA 201	Essentials of Nutrition	3
Choose from 0-3 hours of the following:	0-3	
STA 215	Introduction to Statistical Reasoning	
STA 270	Applied Statistics (Element 2) <sup>G</sup>	
SOC 232	Social Statistics	
Choose from six hours of the following:	6	
HLS 101	Introduction to Homeland Security	
HLS 260	Disaster Preparedness & Response	
HSA 100	Health Care Delivery Systems	
HSA 302	Organization and management of Health Services	
HSA 401	Legal Issues in Health Care	
NFA 447	Food Culture and Systems	
REC 280	Programming Special Events	
SJS 101	Understanding Social Justice and Human Struggle	
SJS 313	Mobilizing for Social Justice	

SOC 235	Social Problems	
SOC 365	Social Change in Appalachia	
<i>Free Electives</i>		
Choose from 14-17 hours of free electives		14-17
<b>Total Hours</b>		<b>47-53</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Public Health, Bachelor of Science with a Concentration in Pre#Professional (B.S.)

Public Health offers the Bachelor of Science degree in Public Health with a Health Promotion Concentration, a Pre-Professional Concentration, and the Bachelor of Science degree in Public Health and Master of Public Health Accelerated 3 + 2 Dual Degree Accelerated Pathway with a Health Promotion concentration and a Pre-Professional Concentration. Students who complete the Health Promotion concentration, the Pre-Professional Concentration, or the accelerated pathway are prepared to determine the health needs of the community and plan and implement effective programs to improve the health of the populations they serve. Health Promotion Specialists may work in Public Health Departments, Volunteer Organizations, Hospitals, and Family Resource Centers. Students who complete the Pre-Professional Concentration receive training in Public Health along with preparation for professional health related graduate programs such as medicine, dentistry, osteopathy, veterinary medicine, or physician associate. Students in the Pre-Professional Concentration will be assigned to a Public Health advisor and should also consult with a pre-professional health advisor from the College of Science to ensure adequate preparation for professional entrance exams and the professional school application process. Students are responsible for ensuring they have the correct prerequisites for the professional program of their choice.

A student may choose a minor in Public Health. The Bachelor of Science program in Public Health is accredited by the Council on Education for Public Health.

Students who transfer from another college or university must earn a minimum of 12 hours at ECU in the major. Students who transfer from another college or university must earn a minimum of six hours at ECU in the minor. Students who are accepted by the ECU Admissions Office and declare their major as Public Health with a concentration in Health Promotion or Pre-Professional Concentration must maintain an overall GPA of 2.25 with a grade of "C" or better in all of the required major and supporting courses found in the Public Health Curriculum.

### Professional Liability Insurance

Students enrolling in HEA 499 Internship in Public Health in the Department of Health Promotion and Administration are required to register for student Professional Liability Insurance. This fee is listed in each semester's schedule of classes. Please see the section on Student Liability Insurance for the College of Health Sciences.

### Program Requirements

CIP Code: 51.2207

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Public Health majors will fulfill ACCT with the following. (This course is included in the Major total.)		
HEA 499	Internship in Public Health	
<b>Major Requirements</b>		
<i>Core Courses</i>		
HEA 216	Introduction to Public Health	3
HEA 290	Foundations of Health Education	3
HEA 310	Introduction TO Global Health	3
HEA 320	Introduction to Behavior Change	3
HEA 345	Drugs, the Individual, and Society	3
HEA 380	Mental Health Education	3
HEA 455	Introduction to Epidemiology	3
HEA 485	Community Org & Policy Dev	3
HEA 497	Senior Seminar: Public Health	3
HEA 499	Internship in Public Health	3
HEA 592	Human Sexuality	3

### Concentrations

Students must select one of the following Concentrations:

Health Promotion

Pre-Professional	50-54
<i>Supporting Course Requirements</i>	
Choose from 9-42 hours of supporting courses	
9-12 hours of Health Promotion	
40-42 hours of Pre-Professional	
<i>Free Electives</i>	
Choose from 0-17 hours of free electives	0-17
14-17 hours of Health Promotion	
0 hours of Pre-Professional	
<b>Total Hours</b>	<b>120-141</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
HEA 350	Interpretation of Health Data	3
HEA 410	Social Marketing and Advocacy in Public Health	3
HEA 498	Community Health Ed. Process	3
HEA 480W	Health Promotion Program Planning	3
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution	4
BIO 348	Vertebrate Physiology	3
BIO 320	Principles of Microbiology	3-4
or BIO 331	Cell Biology	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3
Choose from one of the following:		0-3
MAT 120	Trigonometry (or higher)	
STA 215	Introduction to Statistical Reasoning	
STA 270	Applied Statistics (Element 2) <sup>G</sup>	
NFA 201	Essentials of Nutrition	3
PHY 131	College Physics I	5
PHY 132	College Physics II	5
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
<b>Total Hours</b>		<b>50-54</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

### Public Health, Certificate

#### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
HEA 216	Introduction to Public Health	3
HEA 290	Foundations of Health Education	3

HEA 320	Introduction to Behavior Change	3
HEA 480W	Health Promotion Program Planning <sup>1</sup>	3
Choose from six hours of the following:		6
HEA 300	Infectious Dis. and Public Hea	
HEA 305	Chronic Disease & PublicHealth	
HEA 310	Introduction TO Global Health	
HEA 345	Drugs, the Individual, and Society	
HEA 350	Interpretation of Health Data	
HEA 380	Mental Health Education	
HEA 410	Social Marketing and Advocacy in Public Health	
HEA 455	Introduction to Epidemiology	
HEA 485	Community Org & Policy Dev	
HEA 498	Community Health Ed. Process	
HEA 591	Women's Health	
HEA 592	Human Sexuality	
HEA 593	Death and Grief	
HEA 594	Substance Use Prevention Skill	
<b>Total Hours</b>		<b>18</b>

<sup>1</sup>  
Course may have prerequisite or corequisite

### Public Health, Minor

#### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
HEA 216	Introduction to Public Health	3
HEA 290	Foundations of Health Education	3
HEA 320	Introduction to Behavior Change	3
HEA 480W	Health Promotion Program Planning <sup>1</sup>	3
Choose from six hours of the following:		6
HEA 300	Infectious Dis. and Public Hea	
HEA 310	Introduction TO Global Health	
HEA 305	Chronic Disease & PublicHealth	
HEA 345	Drugs, the Individual, and Society	
HEA 350	Interpretation of Health Data	
HEA 380	Mental Health Education	
HEA 410	Social Marketing and Advocacy in Public Health	
HEA 455	Introduction to Epidemiology	
HEA 485	Community Org & Policy Dev	
HEA 498	Community Health Ed. Process	
HEA 591	Women's Health	
HEA 592	Human Sexuality	
HEA 593	Death and Grief	
HEA 594	Substance Use Prevention Skill	
<b>Total Hours</b>		<b>18</b>

<sup>1</sup>  
Course may have prerequisite or corequisite.

## Substance Use Prevention, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
HEA 345	Drugs, the Individual, and Society	3
HEA 485	Community Org & Policy Dev	3
HEA 594	Substance Use Prevention Skill	3
Choose from nine hours of the following:		9
HEA 320	Introduction to Behavior Change	
HEA 380	Mental Health Education	
HEA 410	Social Marketing and Advocacy in Public Health	
HEA 480W	Health Promotion Program Planning	
PSY 429	Psychological Perspectives on Substance Abuse	
SOC 235	Social Problems	
SWK 440	Addictions	
SWK 561	Alcohol and Drug Assessment	
SWK 562	Alcohol and Drug Treatment	
<b>Total Hours</b>		<b>18</b>

## Department of Medical Laboratory Science

### Chair

Dr. Ismail El-Amouri  
(859) 622-3078  
Dizney 220

### Faculty

S. Altheide, I. El-Amouri, D. VanHoeve, and M. Wyatt

### Bachelor's

- Medical Laboratory Science, Bachelor of Science (B.S.) (p. 231)

### Courses

#### MLS 201. Introduction to Medical Laboratory. (3 Credits)

II. Open to all students. Techniques common to clinical laboratories. Stresses basic physical and chemical principles of disease process. 3 Lec.

#### MLS 209. Microbiology for Health Sciences. (3 Credits)

(3) A. Study of the bacteria, fungi, viruses, and parasites as agents of human disease with emphasis on the pathogenesis, epidemiology, and diagnosis of infectious diseases. 3 Lec.

#### MLS 211. Medical Microbiology Laboratory. (1 Credit)

I.II. Laboratory methods in the diagnosis and management of infectious diseases. 2 Lab.

#### MLS 290. Medical Biochemistry. (3 Credits)

I. Formerly CLS 290 Prerequisite: CHE 112, 112L, and BIO 121 or BIO 111. The study of biochemical systems of the body with emphasis on medical consequences when these systems are disrupted. Topics: proteins, carbohydrates, lipids, DNA/RNA and liver function. Credit will not be awarded for both CLS290 and MLS290.

#### MLS 300. Clinical Laboratory. (2 Credits)

I. Formerly CLS 300 Prerequisite: enrollment in upper division MLS program or departmental approval. Lab calculations, instrumentation, and quality assurance. 2 Lec. Credit will not be awarded for both CLS300 and MLS300.

#### MLS 303. Clinical Laboratory Skills. (1 Credit)

I, II. Formerly CLS 303 Prerequisite: enrollment in upper division MLS program or departmental permission. Skills for clinical laboratory practitioners, including laboratory safety, phlebotomy, microscopy, pipetting, universal precautions, and principles of quality assurance. Credit will not be awarded for CLS303 and MLS303.

#### MLS 305. Analysis of Body Fluids. (2 Credits)

(2)I Formerly CLS 305 Prerequisite: enrollment in upper division MLS program or departmental approval. Principles, procedures, and significance of analysis of urine, spinal fluid, and other fluids commonly examined in the clinical laboratory. 3 Lec/Lab. Credit will not be awarded for both CLS305 and MLS305.

#### MLS 308. Serology and Molecular Techniques. (2 Credits)

I. Prerequisite: Enrollment in upper division MLS program or departmental approval. Principles, procedures, sources of error, clinical application of serological tests, molecular techniques and specimen collection; 4 Lec/Lab.

#### MLS 309. Clinical Immunology. (1 Credit)

I, II. Formerly CLS 309 Prerequisite: Enrollment in upper division MLS program or departmental approval. Principles and techniques of antigen-antibody reactions of the human immune system and their relationship to the clinical laboratory. Credit will not be awarded for both CLS309 and MLS309.

#### MLS 310. Hematology and Coagulation. (5 Credits)

I. Formerly CLS 310 Prerequisite: enrollment in upper division MLS program or departmental approval. Morphology of blood cells, determination of blood parameters and disorders/diseases associated with blood cells; biochemistry, procedures and disorders/diseases in coagulation. 3 Lec/4 Lab. Credit will not be awarded for both CLS310 and MLS310.

#### MLS 320. Immunohematology. (3 Credits)

II. Formerly CLS 320 Prerequisite: enrollment in upper division MLS program or departmental approval. Blood banking, blood grouping, phenotyping, cell panels, compatibility testing, and transfusion practices. 2 Lec/2 Lab. Credit will not be awarded for both CLS320 and MLS320.

#### MLS 346. Clinical Chemistry. (5 Credits)

II. Formerly CLS 346 Prerequisite: enrollment in upper division MLS program or departmental approval. Introduction to theory and lab procedures, measurement of constituents of body fluids, instrumentation, and clinical interpretation of results in relation to biochemistry of human systems. 3 Lec/3 Lab. Credit will not be awarded for both CLS346 and MLS346.

#### MLS 350. Bacteriology. (5 Credits)

I. Formerly CLS 350 Prerequisite: Enrollment in the upper division MLS program or departmental approval. Study of medically important bacteria with emphasis on the clinical laboratory methods of microscopy, cultivation, identification, antimicrobial susceptibility testing, and quality control. 3 Lec/4 Lab. Credit will not be awarded for both CLS350 and MLS350.

**MLS 355. Mycology, Parasitology, and Virology. (4 Credits)**

II. Formerly CLS 355 Prerequisites: Enrollment in the upper division MLS program or departmental approval. Study of fungi, parasites, and viruses as agents of human disease, with emphasis on the clinical laboratory methods of microscopy, in vitro cultivation, identification, and quality control. 3 Lec/1 Lab. Credit will not be awarded for both CLS355 and MLS355.

**MLS 431. Clinical Correlations. (3 Credits)**

I, A. Formerly CLS 431 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Correlates the sub-disciplines of clinical laboratory science. Reviews all areas and stresses laboratory medicine in the health professions. 3 Lec. Credit will not be awarded for both CLS431 and MLS431.

**MLS 432. Clinical Chemistry Practicum. (5 Credits)**

II, A. Formerly CLS 432 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Diagnostic chemical procedures in an affiliated laboratory. Credit will not be awarded for both CLS432 and MLS432.

**MLS 434. Clinical Microbiology Practicum. (4 Credits)**

I, II. Formerly CLS 434 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Clinical bacteriology, parasitology, and mycology in an affiliated laboratory. Credit will not be awarded for both CLS434 and MLS434.

**MLS 436. Lab Management and Education. (1 Credit)**

I, II. Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Study of specific problems, topics, or issues in Medical Laboratory Science. Additional course topics include leadership, management and professionalism.

**MLS 437. Clinical Laboratory Seminar. (3 Credits)**

I, II. Formerly CLS 437 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Case studies, advanced procedures, and problem solving in the clinical laboratory. Credit will not be awarded for both CLS437 and MLS437.

**MLS 438. Hematology Practicum. (4 Credits)**

I, A. Formerly CLS 438 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Diagnostic blood parameters and morphology studies in an affiliated laboratory. Credit will not be awarded for both CLS438 and MLS438.

**MLS 439. Urinalysis Practicum. (1 Credit)**

I, A. Formerly CLS 439 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Diagnostic urine and body fluid procedures in an affiliated laboratory. Credit will not be awarded for both CLS439 and MLS439.

**MLS 440. Blood Bank Practicum. (2 Credits)**

II, A. Formerly CLS 440 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Practical blood banking in an affiliated laboratory. Credit will not be awarded for both CLS440 and MLS440.

**MLS 441. Immunology Practicum. (1 Credit)**

I, II, A. formerly CLS 441 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Practical immunology in an affiliated laboratory. Credit will not be awarded for both CLS441 and MLS441.

## Medical Laboratory Science, Bachelor of Science (B.S.)

The department offers a Bachelor of Science (B.S.) degree in Medical Laboratory Science. The MLS program consists of four years of study. The first two years or pre-MLS phase include general education courses and supporting courses and the last two years or upper-division MLS phase include major course requirements for the MLS program, with classes in hematology, clinical chemistry, microbiology, immunohematology, immunology, serology, body fluids, and clinical practicums in hospital laboratory affiliated with the program.

### Professional Liability Insurance and Criminal Records

Students enrolling in the following clinical practicum courses in the MLS program – are required to register for student Professional Liability Insurance (PLI) and submit to a drug screen and criminal background check:

Code	Title	Hours
MLS 432	Clinical Chemistry Practicum	5
MLS 434	Clinical Microbiology Practicum	4
MLS 438	Hematology Practicum	4
MLS 439	Urinalysis Practicum	1
MLS 440	Blood Bank Practicum	2
MLS 441	Immunology Practicum	1

The PLI fee is listed in each semester's schedule of classes. Please see the section on Student Liability Insurance for the College of Health Sciences. Information about the cost and application for the drug screen and criminal background check will be given to the student before they enter the clinical practicum.

### Admission Requirements

All students who are admitted to the University by the ECU Admissions Office and declare their major as medical laboratory science (MLS) are initially placed into the pre-MLS major phase/curriculum. This curriculum includes the following supporting courses:

Code	Title	Hours
MAT 114	College Algebra (or higher)	3
CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
HSA 200	Medical Terminology	3
BIO 111	Cell and Molecular Biology	4
BIO 308 or BIO 348	Human Anatomy and Physiology II or Vertebrate Physiology	3
MLS 201	Introduction to Medical Laboratory	3
MLS 209	Microbiology for Health Sciences	3
MLS 211	Medical Microbiology Laboratory	1
MLS 290	Medical Biochemistry	3

Admission into the "Upper-Division" phase of the MLS program requires completion of pre-MLS curriculum with an overall and supporting grade point average (GPA) of at least 2.5 with a grade of "C" or better in all

courses. Transfer students must maintain a GPA of 2.5 in courses at EKU as well as an overall GPA of 2.5. After completing the pre-MLS curriculum requirements, students may formally apply for entry/admission into the Medical Laboratory Science program.

Application to the upper-division does not guarantee acceptance into the MLS program. The department reserves the right to accept only the best qualified applicants who meet the upper division program requirements.

## Progression Criteria

To remain in the upper division MLS program, a student must maintain an overall GPA of 2.5 with a grade "C"/2.0 or better in all upper-division MLS phase courses. Students who fail to meet the requirements for progression will be dismissed from the MLS program and must apply for readmission through the Admission and Continuation Committee. Readmission to the MLS program is not guaranteed and the Committee reserves the right to readmit any student.

## Program Requirements

CIP Code: 51.1005

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT - Medical Laboratory Science majors will fulfill ACCT with the following. (Credit hours are incorporated into Major requirements below.)

MLS 438	Hematology Practicum	
<b>Major Requirements</b>		
<i>Core Courses</i>		
MLS 201	Introduction to Medical Laboratory	3
MLS 209	Microbiology for Health Sciences	3
MLS 290	Medical Biochemistry	3
MLS 211	Medical Microbiology Laboratory	1
MLS 300	Clinical Laboratory	2
MLS 303	Clinical Laboratory Skills	1
MLS 305	Analysis of Body Fluids	2
MLS 308	Serology and Molecular Techniques	2
MLS 309	Clinical Immunology	1
MLS 310	Hematology and Coagulation	5
MLS 320	Immunohematology	3
MLS 346	Clinical Chemistry	5
MLS 350	Bacteriology	5
MLS 355	Mycology, Parasitology, and Virology	4
MLS 431	Clinical Correlations	3
MLS 432	Clinical Chemistry Practicum	5
MLS 434	Clinical Microbiology Practicum	4
MLS 436	Lab Management and Education	1
MLS 437	Clinical Laboratory Seminar	3
MLS 438	Hematology Practicum	4
MLS 439	Urinalysis Practicum	1
MLS 440	Blood Bank Practicum	2
MLS 441	Immunology Practicum	1
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element E-4) <sup>G</sup>	
BIO 308	Human Anatomy and Physiology II	3
or BIO 348	Vertebrate Physiology	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element E-4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
HSA 200	Medical Terminology	3
MAT 114	College Algebra (or higher) (Element E-2) <sup>G</sup>	
<i>Free Electives</i>		
Choose from 9 hours of free electives		9
<b>Total Hours</b>		<b>120</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Department of Occupational Science and Occupational Therapy Chair

Dr. Dana Howell  
(859) 622-3300

Dizney 103

## Faculty

A. Balser L. Bray, C. Carrico, R. Causey#Upton, D. Colaianni, J. Duckart, C. Ginn, L. Hardman, C. Hayden, S. Skees Hermes, J. Hight, D. Howell, C. Humphrey, A. Keener, S. O'Brien, C. Privott, L. Simpkins, C. Skubik# Peplaski, G. Spira, C. West, and D. Weiss-Salinas.

The Department of Occupational Science and Occupational Therapy provides a continuum of educational experiences that prepare a student at the undergraduate level for a career as a non-credentialed health and human service professional and at the graduate level for a career as an occupational therapist. Undergraduate students (1st degree pathway), or students who already hold an undergraduate degree in a field other than Occupational Science (2nd degree pathway), can enter the Occupational Science program, receive a Bachelor of Science degree, and apply for admission to the Occupational Therapy Doctorate (OTD) program. After completing the OTD degree, students are eligible to take the occupational therapy national certification examination.

The OTD program is accredited by the

Accreditation Council for Occupational Therapy Education (ACOTE)  
6116 Executive Boulevard, Suite 200  
North Bethesda, MD 20852-4929  
(301) 652-2682  
[www.acoteonline.org](http://www.acoteonline.org) (<http://www.acoteonline.org>)

Certification for the occupational therapy profession is provided through the

National Board for Certification in Occupational Therapy (NBCOT)  
One Bank Street, Suite 300  
Gaithersburg, MD 20878  
[www.nbcot.org](http://www.nbcot.org) (<http://www.nbcot.org>)

## Bachelor's

- Occupational Science, Bachelor of Science (B.S.) (p. 235)

## Minor

- Horses, Humans and Health, Minor (p. 235)

## Certificate

*No results were found.*

## Courses

### OTS 101. Occupation Perspectives: Human Services. (3 Credits)

A. An occupational science perspective of health and human service professions. Through lecture, active learning and community experiences, students will explore the themes of occupation, professional identity, reasoning, communication and diversity in professional responsibilities.

### OTS 205. Horse and Human Co-Occupation:. (3 Credits)

(3) A. Course provides information regarding the equine industry in connection with human health and wellness. Areas of focus include career directions, understanding horse/human co-occupation and equine movement in concert with human interaction.

### OTS 300. Foundation in Occupation I. (3 Credits)

Prerequisites: Junior Standing and B.S in Occupational Science majors only. Foundational knowledge in occupational science and occupational therapy, including history, philosophy, theory, context, diversity, process, and reasoning. Emphasis on active learning and reasoning skills including information literacy of research.

### OTS 301. Practicum I: Concepts. (4 Credits)

A. Prerequisites: BIO 171 or 307 and 301 or 308; and PSY 200. Corequisites: OTS 311 and 432. Concepts of occupational science and occupational therapy. Integrate knowledge of self as a creative and active occupational being through reflection and portfolio development.

### OTS 301Z. Practicum in Occ Therapy I. (3 Credits)

### OTS 302. Practicum II: Life Narratives. (3 Credits)

A. Prerequisites: OTS 301, 311, and 432 with a grade of (C) or better. Corequisites: OTS 313, 335 and 421. Introduction to life narratives as an assessment of occupation. Active learning experiences focusing on occupation across the lifespan including reflection and portfolio development.

### OTS 311. Self as Occupational Being. (3 Credits)

A. Corequisites: OTS 301 & OTS 432. Analysis of occupation and occupational patterns of self. Recognize the influence of occupation on the well-being of self through active learning experiences.

### OTS 312. Occupation by Design. (3 Credits)

I. Corequisites: OTS 401, 422 and BIO 271. Foundational problem solving, task, and activity analysis concepts related to designing occupations. Students apply strategies to implement a design process.

### OTS 313. Occupation in Diverse Contexts. (3 Credits)

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Application of the constructs of context to understand the impact on occupation and health. Introduction to cultural awareness and diversity. Enhance understanding of ability and disability concerns in social and environmental contexts.

### OTS 321. Occupation Across the Lifespan. (3 Credits)

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Observation and analysis of human development and participation in occupation across the lifespan. Content explores life-stage characteristics and contextual aspects as articulated in varied models and theories.

### OTS 322. Impact of Conditions on Occupation. (3 Credits)

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Introduction to human occupation in the context of function and impairment. Content includes pathophysiological, behavioral, and developmental issues which have an impact on human occupation.

### OTS 330. Gender and Work in the U.S.. (3 Credits)

Prerequisite: ENG 102 or 105 (B) or HON 102 or departmental approval. A survey view of occupational science and sociological constructs related to gendered work. Includes content on family work linkages, gendered organizations, and public policies in the workplace. Credit will not be awarded to students who have credit for OTS 480, WGS 380, or WGS 480.

### OTS 335. Professional Dynamics. (3 Credits)

A. Corequisite: OTS 302. Analysis and application of communication skills necessary for becoming an effective team member. Emphasis on theories of group dynamics, leadership and professional interaction skills, decision making and conflict resolution through active learning.

**OTS 340. Foundations in Occupations II. (3 Credits)**

A. Prerequisite: OTS 300. Junior standing and B.S in Occupational Science majors only. Further exploration of concepts of occupational science and how they inform occupational therapy practice. Occupation-based theories, models of practice, and frames of reference will be applied.

**OTS 360. Designing Occupations. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Foundational problem solving, task, and activity analysis concepts related to designing occupations for individuals and groups. Students design, implement and analyze individual and group activities. Emphasis on group dynamics and leadership.

**OTS 362. Kinesiology for Occupation. (3 Credits)**

A. Prerequisites: BIO 271; Junior Standing and B.S in Occupational Science majors only. Application of the physics of movement and biomechanical analysis for occupational performance. Includes evaluation procedures for muscle strength and range of motion.

**OTS 365S. Engagement and Advocacy for Elders. (3 Credits)**

(3) A, I, II. Supervised service learning opportunities to create and implement occupation-based programming at a community-based respite care program and to advocate for elders with Alzheimer's Disease. Credit will not be awarded for both OTS 365S and special topics course OTS.

**OTS 380. Gender and Work in the U.S.. (3 Credits)**

Cross-listed as OTS 380. Prerequisite: ENG 102 or 105(B) or HON 102 or departmental approval. A survey view of occupational science and sociological constructs related to gendered work. Includes content on family work linkages, gendered organizations, and public policies in the workplace. Credit will not be awarded to students who have credit for OTS 480, WGS 380, or WGS 480.

**OTS 400. Research Methods in OT I. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Introduction to research design and methods in OT; critical analysis of occupational science and occupational therapy research for evidence based practice.

**OTS 401. Practicum III: Diversity. (3 Credits)**

A. Prerequisite: OTS 302 with grade of C or better. Corequisites: OTS 312, 422 and BIO 271. Introduction to cultural competence and diversity. Enhance understanding of ability and disability concerns in society through interview, reflection and portfolio development.

**OTS 402. Practicum IV: Advocacy & Research. (3 Credits)**

A. Pre-requisite: OTS 401. Co-requisites: OTS 362, 430, and 478 or 478W. Participatory experiences in the application of advocacy, ethics, and research to advance health and wellness. Course includes self-reflection and portfolio completion. Credit will not be awarded to students who have credit for OTS 402S.

**OTS 402S. Practicum IV: Advocacy & Research. (3 Credits)**

(3) A. Pre-requisite: OTS 401. Corequisites: OTS 362, 430, and 478 or 478W. Participatory experiences in the application of advocacy, ethics, and research to advance health and wellness. Course includes self-reflection and portfolio completion. Credit will not be awarded to students who have credit for OTS 402.

**OTS 410. Independent Study in Occupational Science. (1-3 Credits)**

(1-3) A. Student must have the independent study proposal approved by faculty supervisor and department chair prior to enrollment. Directed study on an area of interest in Occupational Science. May be retaken to a maximum of six hours.

**OTS 420. Neuroscience and Occupation. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Analyze how brain function is shaped by occupation. Understand the relationship among neuroscience concepts and occupational engagement evidence to support occupation-based interventions for clients with a variety of conditions.

**OTS 421. Occupation Across the Lifespan. (3 Credits)**

A. Co-requisite: OTS 302. Observation and analysis of participation in occupation across the lifespan. Content explores life-stage characteristics and contextual aspects as articulated by varied models and theories.

**OTS 422. Impact of Conditions on Occ. (4 Credits)**

A. Prerequisites: BIO 371. Corequisites: OTS 312, 401 and BIO 271. Introduction to human occupation and medical terminology in the context of disease and disability. Content includes pathophysiological, behavioral and developmental issues which have an impact on human occupation.

**OTS 430. Occupational Therapy Assessment. (3 Credits)**

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Overview of primary concepts related to the components of healthcare occupational assessments, intervention and documentation as an occupational therapy provider including observation, interview, standardized administration, interpretation and dissemination of results.

**OTS 432. Research in Occupation. (4 Credits)**

I, II. Prerequisite: STA 215. Co-requisites: OTS 301 & OTS 311. Students will learn to be consumers and participants in qualitative and quantitative research, examine methods of research design, data collection, and prepare a research prospectus related to occupational science. Apply statistical methods to the study of occupation.

**OTS 435. OT Professional Seminar. (2 Credits)**

Seminar course in which students will discuss and debate health issues related to practice. Concepts of position statements, strategic planning, and self-directed learning will be emphasized.

**OTS 440. Research Methods in OT II. (3 Credits)**

A Prerequisites: OTS 400, Junior Standing and B.S in Occupational Science majors only. Application and analysis of research methods in OT; critical analysis of occupational science and occupational therapy research for evidence based practice.

**OTS 450. OBP: Orthopedics. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Evaluation and intervention of clients with orthopedic diagnoses. Applying prevention, compensation, and remediation including transfers, orthotics, and assistive technology to support occupational performance.

**OTS 460. OBP: Older Adults. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Evaluation and intervention related to the health of older adult clients in community, home, and medically-based contexts including cognition, vision, and behavioral health to support occupational performance.

**OTS 470S. Advocacy and Ethics in OT. (3 Credits)**

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Participatory experiences in the application of advocacy and ethics through supporting evidence to advance occupational justice, health and wellness within the community. Some travel within the community and the Commonwealth is required.

**OTS 475. Special Topics in Occup Scien. (1-3 Credits)**

A. Prerequisite: permission of department. May be retaken under different subtopics for a total of 6 credits. Advanced study of selected topics in occupational science.

**OTS 478. Health Care Delivery Systems. (3 Credits)**

(3) A. Corequisites: OTS362, OTS 402 or 402S, and 430. an introduction to the history of health care systems, models of health care, and contemporary health policy issues and trends. Includes content on financing health care, health care professional roles and ethics. Credit will not be awarded for both OTS 478 and OTS 478W.

**OTS 478W. OT in Health Care Systems. (3 Credits)**

A. Prerequisite: ENG 102 or 102R, 105(B), or HON 102. An introduction to the history of health care systems, models of health care, and contemporary health policy issues and trends. Includes content on financing, professional roles, and ethics related to health care.

**OTS 479. Equine Assisted Activity. (3 Credits)**

A. Explores equine assisted activity, therapeutic horseback riding, equine facilitated mental health, and hippotherapy. Content includes supervised service learning experiences with individuals of varying ages and conditions in a horse-related environment.

**OTS 479S. Equine Assisted Activity. (3 Credits)**

A. Explores equine assisted activity, therapeutic horseback riding, equine facilitated mental health, and Hippotherapy. Content includes supervised service learning experiences with individuals of varying ages and conditions in a horse related environment. Credit will not be awarded for both OTS 479 and 479S.

**OTS 499. Constructs of Occupation. (6 Credits)**

A. Prerequisite: undergraduate degree, BIO 307 and 308; PSY 200 and STA 215 or 270. Synthesis of occupational constructs as they apply to self and others. Emphasis on occupation across the lifespan, design, and analysis. Portfolio development emphasizes occupation theme.

**OTS 515. Early Child Sensorimotor Development. (3 Credits)**

A. Provides an overview of normal sensorimotor development in infants and young children. Includes contrasting normal/ abnormal development and application of appropriate developmental tasks. Laboratory experiences will be provided.

**OTS 520. Providing Health Services in Appalachia. (3 Credits)**

A. Cross listed as APP 520. Prerequisite: departmental approval. An analysis of development and delivery of health care services in Appalachia. Examination of relevant current and historical factors which have an impact on the health of Appalachian people. Credit will not be awarded to students who have credit for APP 520.

## Horses, Humans and Health, Minor

This interdisciplinary minor offers students a chance to explore the horse-human-health connection through various professions and perspectives. Students interested in working in the equine industry may pair this minor with any major to develop their interests and career paths. An elective in human development offers students the ability to tailor their academic study to individual needs. A student may complete this minor by taking 18 hours (including prerequisites/corequisites) as indicated below.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
OTS 205	Horse and Human Co-Occupation:	3
REC 210	Equine Assisted Therapeutic Recreation <sup>1</sup>	3
Choose from one of the following:		3-4
AGR 250	Introduction to Horses	
AGR 326	Light Horse Production and Management <sup>1</sup>	
OTS 479S	Equine Assisted Activity	3

ANS 497	Topics in Animal Studies (topic: the horse) <sup>1</sup>	3
Choose from one elective in human development of the following:		3
CDF 235	Child Development: Conception-Eight Years	
CDF 342	Child and Adolescent Development	
CDF 441	Family Dynamics in Adulthood and Aging	
HEA 285	Health Across the Lifespan	
OTS 321	Occupation Across the Lifespan <sup>1</sup>	
PSY 280	Lifespan Developmental Psych.	
SED 104	Special Education Introduction	

**Total Hours 18-19**

<sup>1</sup>

Indicates the course may have prerequisites or corequisites.

## Occupational Science, Bachelor of Science (B.S.)

Occupational science, an evolving social science, is the study of human occupation. Occupational scientists study why and how we occupy our time through activity, organize ourselves through activity patterns and habits, respond to the context in which occupations occur, and create meaning through occupations.

Students may combine the study of human occupation with other areas of interest through electives or a minor, including but not limited to Horses, Humans and Health, Psychology, Child and Family Studies, Biology, Community Health, Gerontology, and Business. Students who apply for the Baccalaureate Degree in Occupational Science are expected to progress to the OTD program. However, some may choose other graduate education options or seek employment in non-credentialed health care, education or community positions. These careers may include case manager, independent living skills coordinator, activity coordinator, medical sales representative, senior citizen program coordinator, mental health associate, and job coach for persons with developmental disabilities.

The five themes of the occupational science curriculum are occupation, communication, critical thinking, leadership, and practice. Interwoven are the curriculum elements of concepts and knowledge, active community learning experiences, and authentic assessment and portfolio development. A value inherent in the curriculum model is that learning is optimal when educators guide student immersion in personally meaningful challenges that are processed in a supportive environment.

Graduates of the Occupational Science program meet the following outcomes:

1. Identify occupational needs, and apply occupational science and occupational therapy concepts to self and others to promote participation in occupation.
2. Utilize professional written, oral, and non-verbal communication to express the language and ideas of occupational science and occupational therapy.
3. Critically read to analyze scholarly literature to understand the impact on healthcare, occupational science, and occupational therapy.
4. Demonstrate professional behavior in the roles of student and advocate to begin to develop the identity of a doctorally prepared occupational therapist.

- Demonstrate knowledge of occupational science concepts and therapeutic use of self to engage in the occupational therapy process for individuals, groups, and populations.
- Explain concepts and roles in healthcare delivery models.

## Admission and Progression Requirements

All students who are accepted by EKU's Admission office and declare their major as Occupational Science are admitted to the University as pre-Occupational Science majors; however, admission to the University does not guarantee admission to the Occupational Science program. Admission is competitive and based on a review of the applicants' academic history by the department's Admission, Progression and Retention Committee. Students seeking consideration for admission to the Occupational Science program must meet the following requirements by May in the semester preceding the Fall semester start of the program:

- Completion of 60 hours of coursework, including prerequisites courses
- Overall GPA of 3.0 or above
- A minimum of 4 "B"s and 1 "C" in the following prerequisite courses or their equivalents

Code	Title	Hours
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
HSA 200	Medical Terminology	3
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3
PSY 200	Introduction to Psychology	3

- Completion of the Health Science Reasoning Test (HSRT)
- Three completed recommendation forms
- Application with personal statement

Application to the Occupational Science Program does not guarantee acceptance into the program.

Students seeking admission to the Occupational Science program must follow this process:

- By April 15th prior to progressing to the Occupational Science program, all students must submit an Application for Admission to the Department Chair.
- Transfer students, including 2nd degree pathway students, must be fully admitted to the University by April 15th to be considered for admission to the Occupational Science Program. Students are responsible for submitting their official transcripts to the Office of the Registrar.
- Based on a competitive admissions review, students will be informed of admission to the Occupational Science program after Spring semester grades are posted.
- Students accepted to the Occupational Science program will then be allowed to register for classes in the program.**

To progress in the program, all required major and support courses in the first professional year of the program must be completed with a grade of "B" or better.

To graduate and progress to the OTD program, all required major and support courses must be completed with a grade of "B" or better as well as completion of general education and university requirements

for graduation. Students must also successfully complete a summative Annual Competency at the end of Professional Years 1 and 2. Following the Professional Year 1 Annual Competency, students will formulate and initiate an Annual Competency Self-reflection and Action Plan to enact throughout Professional Year 2. If the student does not remediate the noted areas of concern during Professional Year 2, they will not advance to the OTD program.

For additional admission information please refer to the Selection Criteria at <http://www.ot.eku.edu/>

**Completion of the undergraduate program in Occupational Science does not guarantee admission into the graduate program in Occupational Therapy. Students must meet Department and Graduate School requirements to progress. Refer to the Graduate Catalog for admission requirements and procedures regarding application to the OTD program.**

## Appeals

Students may petition for a waiver of any regulations. Appeals regarding waiver of a regulation should be addressed to the Admissions and Progression Committee. Grade Appeals should be addressed to the Academic Practices Committee. See the University Student Handbook for details of the appeal procedures.

## Program Requirements

CIP Code: 51.2306

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	Waived for 2nd degree pathway students	
	General Education	36
	<i>Student Success Seminar</i>	

HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Occupational Science majors will fulfill ACCT with the following. (These courses are included in the Major totals.)		
OTS 420	Neuroscience and Occupation	

**Major Requirements***Core Courses*

OTS 300	Foundation in Occupation I	3
OTS 313	Occupation in Diverse Contexts	3
OTS 321	Occupation Across the Lifespan	3
OTS 322	Impact of Conditions on Occupation	3
OTS 340	Foundations in Occupations II	3
OTS 360	Designing Occupations	3
OTS 362	Kinesiology for Occupation	3
OTS 400	Research Methods in OT I	3
OTS 420	Neuroscience and Occupation	3
OTS 430	Occupational Therapy Assessment	3
OTS 478W	OT in Health Care Systems	3
OTS 440	Research Methods in OT II	3
OTS 450	OBP. Orthopedics	3
OTS 460	OBP. Older Adults	3
OTS 470S	Advocacy and Ethics in OT	3

*Supporting Course Requirements*

BIO 307	Human Anatomy and Physiology I	3
BIO 271	Advanced Human Anatomy	3
BIO 308	Human Anatomy and Physiology II	3
BIO 371	Neuroanatomy	3
HSA 200	Medical Terminology	3
Choose from one of the following:		0-3
PSY 200	Introduction to Psychology	
PSY 200W	Introduction to Psychology: Writing Intensive (Element 5B) <sup>G</sup>	
PSY 308	Abnormal Psychology	3

Choose from one of the following:

STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
STA 270	Applied Statistics (Element 2) <sup>G</sup>	

*Free Electives*

Choose from 20 hours of free electives 20

**Total Hours 120-123****G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

Due to the transition from the Masters to the Doctorate, transfer students who are accepted into the Bachelor of Science in Occupational Science program as juniors for the 19/20 or 20/21 academic year must refer to their advisor and degree audit for the appropriate curriculum.

# Department of Recreation and Park Administration

## Chair

Dr. Jon McChesney  
(859) 622-1833  
Combs 208

## Faculty

B. Clark, M. Gerken, S. Jones, and J. McChesney

The Department of Recreation and Park Administration offers the Bachelor of Science degree in Recreation and Park Administration with four concentrations: Tourism & Resort Recreation, Natural Resources & Recreation Management, Recreation Management and Event Planning, and Recreation Therapy. The department also offers a minor in Recreation and Park Administration.

Students who transfer from another college or university must earn a minimum of 12 hours at EKU in their major. Students who transfer from another college or university must earn a minimum of six hours at EKU in their minor.

Graduates of the Tourism & Resort Recreation concentration find career opportunities in local, state, federal and private agencies that promote tourism, travel agencies, convention services, resort supervision and management, cruise lines, amusement and theme parks, as well as other commercial recreation agencies.

Graduates of the Natural Resources & Recreation Management concentration find a wide variety of career opportunities such as park ranger, interpretive naturalist, camp director, recreation forester, fish and wildlife positions, and youth and adult outdoor recreation programming positions.

Graduates of the Recreation Management and Event Planning concentration find professional careers available in local, state, county and federal agencies, park management, golf course management, recreation supervision, aquatics, cultural arts programming, athletic programming, YMCA and YWCA, Boy Scouts and Girl Scouts, 4-H, and various other private and public agencies providing park, recreation and leisure services.

Graduates of the Recreation Therapy concentration find one of the fastest growing areas in the field of recreation and leisure services. Professionals in TR design programs to meet the needs of special populations, people with physical or developmental disabilities, and people with temporary or permanent psychiatric disorders. TR professionals work in children's hospitals, mental health institutions and psychiatric hospitals, rehabilitation clinics, nursing homes, medical care facilities, transitional living facilities, group homes, camps, community-based programs, and community residential agencies.

The BS degree in Recreation and Park Administration provides 15 credit hours of direct hands-on field experience. The senior internship (12 credit hours) serves as an excellent transition from school to work, and many students are hired directly out of their internship.

Students majoring or minoring in Recreation and Park Administration are required to attain a minimum grade of "C" in all REC courses and a 2.5 or better average in all REC courses. All REC core and REC concentration

courses must be completed prior to enrollment in REC 463 Internship or REC 473 Therapeutic Recreation Internship.

## Bachelor's

- Recreation and Park Administration, Bachelor of Science with a Concentration in Natural Resources & Recreation Management (B.S.) (p. 245)
- Recreation and Park Administration, Bachelor of Science with a Concentration in Recreation Management and Event Planning (B.S.) (p. 246)
- Recreation and Park Administration, Bachelor of Science with a Concentration in Recreation Therapy (B.S.) (p. 247)
- Recreation and Park Administration, Bachelor of Science with a Concentration in Tourism & Resort Recreation (B.S.) (p. 248)

## Accelerated

- Recreation and Park Administration, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Natural Resources Recreation Management (p. 240)
- Recreation and Park Administration, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Recreation Management and Event Planning (p. 242)
- Recreation and Park Administration, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Recreation Therapy (p. 243)
- Recreation and Park Administration, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Tourism & Resort Recreation (p. 244)

## Minor

- Recreation and Park Administration (Non-Teaching), Minor (p. 240)

## Certificate

- Adventure Recreation & Leadership, Certificate (p. 240)
- Tourism & Event Planning, Certificate (p. 249)

## Courses

### REC 101. Recreation and Tourism Careers. (1 Credit)

I, II. Introduction to the broad scope of careers and employment in recreation, parks, and leisure services organizations.

### REC 102. Introduction to Recreation Leadership. (3 Credits)

I, II. Techniques of leadership in working with individuals in groups in various settings. Methods of organization, guidance, and supervision of program activities.

### REC 110. SCUBA Confined Water. (1 Credit)

I. Relationships of scuba diving to adventure tourism, introduction to scuba diving equipment and techniques in confined water settings. This course is prerequisite to REC 111 Scuba Diving- Open Water.

### REC 111. SCUBA Open Water. (1 Credit)

II. Prerequisite: REC 110. Relationships of scuba diving to adventure tourism, introduction to SCUBA diving equipment and techniques in open water settings. this course will be conducted over a 2.5 day period at an off-campus dive site.

### REC 112. Intr to Hiking and Backpacking. (1 Credit)

(1) A. This course introduces students to the basic concepts, physical skills, technical skills and environmental ethics required for hiking and backpacking.

### REC 113. Intro Kayaking and Canoeing. (1 Credit)

(1) A. This course introduces students to the basic concepts, physical skills, technical skills and environmental ethics required for Kayaking and Canoeing.

### REC 114. Intro to Mountain Biking. (1 Credit)

(1) A. This course introduces students to the basic concepts, physical skills, technical skills and environmental ethics required for Mountain Biking.

### REC 163. Fieldwork I. (1 Credit)

A. On-site observation and assistance within a recreation, park or leisure services agency. Observe and assist with recreation activities, programs and special events.

### REC 180. Outdoor Adventure Activities. (1 Credit)

(1) I. Outdoor adventure course where students will gain skills in hiking, rock climbing, kayaking, caving, rafting, sailing, mountain biking, horseback riding, backpacking, snorkeling, and snow skiing. Students will attend skill-based workshops.

### REC 190. Challenge Course Introduction. (1 Credit)

A. Outdoor-based experiential focus using the ECU Challenge Course, climbing tower, and group initiatives.

### REC 200. Leisure Diversity and Culture. (3 Credits)

I, II. Examination of personal, philosophical, cultural diversity, economic, behavioral, and historical dimensions of play, recreation and leisure; evolution of leisure lifestyles; impact of leisure on the quality of life; and knowledge of professional roles.

### REC 210. Equine Assisted Therapeutic Recreation. (3 Credits)

(3) I. Prerequisite: OTS 205 or departmental approval. Introduction to Equine Assisted Activities and Therapies (EAAT). The history and application of EAAT and the general emotional, physical and medical benefits of EAAT for individuals with diverse needs. This course provides hands on activities with a local program.

### REC 225. Recreation Hobbies. (3 Credits)

A. Comprehensive study of recreation services and leisure education; emphasis on leisure time skills, hobbies, avocations, and lifetime recreation; utilization of constructive leisure from youth to senior adults including the disabled person.

### REC 250. Tourism Videography and Social Media. (3 Credits)

II. An examination in tourism and recreation video production, with emphasis in field production and social media. The course combines theory, history and practice. Hands-on demonstrations, screenings, readings, lectures and discussion prepare students to develop skills in outdoor video production.

### REC 263. Fieldwork II. (2 Credits)

A. Prerequisite: REC 163. On-site practical experience in a recreation, park, or leisure services agency. Organize and lead recreation programs.

### REC 270. Introduction to Rock Climbing. (3 Credits)

A. This course introduces students to concepts, physical skills, technical skills and philosophical ethics required for indoor and outdoor rock climbing.

### REC 280. Programming Special Events. (3 Credits)

A. Introduction to the methods and techniques of delivering fairs, festivals and special events. Course focuses on the principles and concepts of event planning, management, marketing, and evaluation.

**REC 290. Adventure Programming. (3 Credits)**

A. Application of adventure programming delivered experientially through problem solving activities, program design and technical skill development. Planning and implementation, facilitation strategies, safety procedures, equipment management, personnel administration, and program design are addressed.

**REC 300. Civic Engagement Experiences. (1-3 Credits)**

(1-3) I, II. Prerequisite: Sophomore, Junior, or Senior standing. Students will engage in structured civic engagement activities by completing community projects. Students will work as a group toward enhancing the local environment or community. This course blends an ongoing academic focus with experiential learning and service experiences. May be retaken to a maximum of six credit hours.

**REC 311. Introduction to Therapeutic Recreation. (3 Credits)**

I, II. An introductory course focusing on individuals with a variety of disabilities, legislation, barriers, accessibility, basic terminology, and awareness of special recreation, recreation therapy, sports, and the needs of individuals with disabilities.

**REC 325. Camp Supervision. (3 Credits)**

II. Supervision of camp programs, auxiliary services, and personnel.

**REC 349. Applied Learning in Recreation and Park Administration. (0.5-8 Credits)**

A. Prerequisite: department chair approval. Agency supervised fieldwork course. Minimum of 80 clock hours for each academic credit. Students must register with the Cooperative Education Office.

**REC 349A. Cooperative Study: Recreation and Park Administration. (0.5-8 Credits)**

A. Prerequisite: department chair approval. Agency supervised fieldwork course. Minimum of 80 clock hours for each academic credit. Students must register with the Cooperative Education Office.

**REC 349B. Cooperative Study: Recreation and Park Administration. (0.5-8 Credits)**

Agency supervised fieldwork course. Students must register with the Cooperative Education Office.

**REC 349C. Cooperative Study: Recreation and Park Administration. (0.5-8 Credits)**

Agency supervised fieldwork course. Students must register with the Cooperative Education office.

**REC 350. Supervision of Recreation Personnel. (3 Credits)**

A. Analysis of skills and techniques utilized in effective supervision of park, recreation, and leisure service personnel.

**REC 380. Natural Resource Tourism. (3 Credits)**

A. Issues in understanding natural resource tourism, sustainability, tourism lifecycle, impacts associated with natural resource tourism, and effective management. Theoretical approaches, case studies and applications. Emphasis on student participation and discussion.

**REC 401. Management of Recreation Services. (3 Credits)**

A. Management concepts and processes, organizational structure, policies, personnel, budget, and fiscal management, marketing and public relations, legal issues, and risk management.

**REC 406. Planning, Design, and Maintenance of Recreation Facilities. (3 Credits)**

II. Planning principles and procedures of recreation and park areas. Facilities, design problems, details of structure and equipment, master planning methods, study of standards and trends.

**REC 409. Independent Study. (1-3 Credits)**

A. Prerequisite: for majors and minors only. Independent study of special topics through directed readings and research. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken up to six hours.

**REC 410. Recreation Research & Evaluation. (3 Credits)**

II. Assessment and evaluation of recreation needs, interests, and agency effectiveness. Research processes including marketing and budgeting as related to recreation services will be the focus of this course.

**REC 411. Therap Rec Serv For Sr Adult. (3 Credits)**

I. Leisure problems, needs, assessments and etiology of the aging population. Basic terminology, organizations, programming, trends, resources, and facilities. Introduction to geriatrics.

**REC 411S. Therapeutic Recreation Services for Senior Adult. (3 Credits)**

I. Explores successful aging and the benefits of recreation therapy for seniors. The course includes a service learning project with a community partner determining the recreation needs of seniors, preventative lifestyle changes and opportunities for meaningful activities. Credit will not be awarded for both REC 411S and REC 411.

**REC 450W. Senior Seminar. (3 Credits)**

(3) I, II. Prerequisites: ENG 102 or 102R, 105(B), or HON 102 and for Recreation and Park Administration majors only; enroll the semester immediately preceding REC 463 or REC 473. Introduction to the senior internship and professional requirements. Study of trends in recreation practices. Development of a professional philosophy.

**REC 460. Advanced Leadership and Programming. (3 Credits)**

I, II. Prerequisite: REC 102. Comprehensive course in recreation program planning, development, and leadership techniques with individuals and groups. Students plan a seasonal program. 2 Lec/2 Lab.

**REC 463. Internship. (12 Credits)**

A. Prerequisites: 2.0 GPA; REC core and REC option courses. Placement in a recreation agency to lead and develop recreation programs, supervise personnel and facilities, and perform administrative duties. A minimum of 480 clock hours typically covering 12 or more weeks.

**REC 473. Therapeutic Recreation Internship. (12 Credits)**

I, II. Prerequisite: All REC Core and RT Concentration Courses with a 2.0 GPA. Placement in a recreation therapy agency to lead and develop recreation therapy programs, supervise clients, facilities, and perform administrative duties. A minimum of 560 clock hours typically covering 14 weeks.

**REC 480. Resort Recreation Management. (3 Credits)**

A. Prerequisite: REC 280. Investigation of the methods and techniques of resort recreation management, and its position within the tourism and hospitality industries. Examines customer service and marketing, international markets, human resources, and fiscal implications.

**REC 481. Research Methods in Tourism. (3 Credits)**

A. Prerequisites: REC 280 and REC 380. Introduction to the methods and techniques of tourism research. Student competencies include understanding, interpreting, and applying research to tourism related services.

**REC 490. Challenge Course Management. (3 Credits)**

A. Prerequisite: REC 290. Advanced leadership and facilitation techniques for challenge course management. Designed for individuals who have experience on challenge courses and need additional training.

**REC 511. Therapeutic Recreation Practices and Services. (3 Credits)**

I, II. Interventions and utilization of terminology. Apply leadership skills, assistive technology, and programming applications. 2 Lec/2 Lab.

**REC 512. Mgmt of Therapeutic Rec Serv. (3 Credits)**

Management concepts applied to delivering therapeutic recreation services, and includes: documentation, activity analysis, assessment, liability, legislation, and standards of practice.

**REC 512S. Management of Therapeutic Recreation Services. (3 Credits)**

I, II. Prerequisite: for majors only. Management concepts applied to delivering recreation therapy services, and includes: documentation, activity analysis, assessment, liability, legislation, and standards of practice. Includes 15 service learning hours.

**REC 516. Recreation and Park Interpretive Services. (3 Credits)**

The interpretation of natural, historical and cultural resources in recreation and park settings. Frequent agency visits and educational field seminars are components of this course.

**REC 520. Trends and Issues in Therapeutic Recreation. (3 Credits)**

A. Pre-requisite: REC 311. A professional issues and trends discussion on topics related to recreation therapy such as clinical practice, licensure, legislative and regulatory issues, curricular standardization, professional ethics and other relevant professional topics.

**REC 530. Park Management. (3 Credits)**

II. Park purposes and operations with an emphasis on natural resources and visitor management. Concentration on design, resource conservation and preservation, public relations, and park policies.

**REC 590. Special Topics:\_\_\_\_. (1-3 Credits)**

A. Identification and study of specialized techniques in recreation leadership, activity skills, operational methods, and services. May be retaken under different workshop title.

## Adventure Recreation & Leadership, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
REC 163	Fieldwork I	1
REC 180	Outdoor Adventure Activities	1
REC 263	Fieldwork II	2
REC 349	Applied Learning in Recreation and Park Administration	2
REC 290	Adventure Programming	3
REC 460	Advanced Leadership and Programming <sup>1</sup>	3
Choose from six hours of the following:		6
REC 409	Independent Study <sup>1</sup>	
REC 516/716	Recreation and Park Interpretive Services	
REC 530/730	Park Management	
REC 590/790	Special Topics:____	
<b>Total Hours</b>		<b>18</b>

1

Course may have pre-requisite or co-requisite

## Recreation and Park Administration (Non-Teaching), Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 200	Leisure Diversity and Culture	3
or REC 311	Introduction to Therapeutic Recreation	
REC 280	Programming Special Events	3
or REC 460	Advanced Leadership and Programming	
Choose from nine hours of the following:		9
REC 180	Outdoor Adventure Activities	
REC 190	Challenge Course Introduction	
REC 210	Equine Assisted Therapeutic Recreation	
REC 225	Recreation Hobbies	
REC 250	Tourism Videography and Social Media	
REC 280	Programming Special Events	
REC 290	Adventure Programming	
REC 311	Introduction to Therapeutic Recreation	
REC 349	Applied Learning in Recreation and Park Administration	
REC 350	Supervision of Recreation Personnel	
REC 380	Natural Resource Tourism	
REC 401	Management of Recreation Services	
REC 406	Planning, Design, and Maintenance of Recreation Facilities	
REC 409	Independent Study	
REC 410	Recreation Research & Evaluation	
REC 411	Therap Rec Serv For Sr Adult	
REC 460	Advanced Leadership and Programming	
REC 480	Resort Recreation Management	
REC 511	Therapeutic Recreation Practices and Services	
REC 512S	Management of Therapeutic Recreation Services	
REC 516	Recreation and Park Interpretive Services	
REC 530	Park Management	
REC 590	Special Topics:____	
<b>Total Hours</b>		<b>19</b>

## Recreation and Park Administration, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Natural Resources Recreation Management

Students may apply for admission to the Accelerated 3+2 Dual Degree program in their junior or senior year. Students are able to complete their B.S. degree and M.S. degree within 5 calendar years because of

the accelerated curriculum and because 9 semester hours of 700-level graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program.

Entrance requirements for the 3+2 must adhere to the same requirements for the M.S. Recreation and Park Administration Program in the Graduate Catalog, except entrance examinations (e.g. GRE) are not required for the 3+2 program. Students must fulfill all graduation requirements listed below. Students admitted into the program will remain coded as undergraduate until fulfilling their BS requirements. Students admitted into the 3+2 program must complete the Recreation And Park Administration BS degree with a minimum 3.0 GPA to be allowed to proceed with graduate program coursework.

## Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements

CIP Code: 31.0301

Students in 3+2 Accelerated Dual Degree program must complete the listed Recreation And Park Administration B.S. program requirements along with the same requirements for the Recreation And Park Administration M.S. Program (presented in the Graduate Catalog: listing at <http://gradschool.eku.edu/graduate-catalog> (<http://gradschool.eku.edu/graduate-catalog/>)). Nine (9) credit hours of 700-level graduate coursework (REC 716 Rcrtn & Prk Interpretive Svcs, REC 730 Park Management, and REC 790 Special Topics:\_\_\_\_\_ ) are applicable to the undergraduate degree.

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
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### University Graduation Requirements

General Education	36
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### Student Success Seminar

H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Recreation and Park Administration majors will fulfill ACCT with the following. (Credit hours are incorporated into Major and Supporting requirements.)

REC 463	Internship	
or REC 473	Therapeutic Recreation Internship	

### Major Requirements

#### Core Courses

REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 163	Fieldwork I	1
REC 200	Leisure Diversity and Culture	3
REC 263	Fieldwork II	2
REC 311	Introduction to Therapeutic Recreation	3
REC 350	Supervision of Recreation Personnel	3
REC 406	Planning, Design , and Maintenance of Recreation Facilities	3
REC 450W	Senior Seminar	3
REC 801	Park, Rec & Tour Resrch Methds	3
REC 825	Phil of Recreation and Leisure	3
REC 840	Admin Proc & Pract	3

#### Concentrations

Students must select one of the following Concentrations:

Natural Resources and Recreation Management	29
Recreation Management and Event Planning	
Recreation Therapy	
Tourism and Resort Recreation	

#### Free Electives

Choose from 23 hours of free electives	23
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<b>Total Hours</b>	<b>120</b>
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## Concentration

Code	Title	Hours
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### Concentration Courses

REC 180	Outdoor Adventure Activities	1
REC 190	Challenge Course Introduction	1
REC 290	Adventure Programming	3
REC 380	Natural Resource Tourism	3

REC 463	Internship	12
REC 516	Recreation and Park Interpretive Services	3
REC 530	Park Management	3
REC 590	Special Topics:____	3
or WLD 317	Conservation of Wildlife Resources	
<b>Total Hours</b>		<b>29</b>

### M.S. Recreation and Park Administration Major Requirements

See M.S. Recreation and Park Administration (p. 740) page.

## Recreation and Park Administration, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Recreation Management and Event Planning

Students may apply for admission to the Accelerated 3+2 Dual Degree program in their junior or senior year. Students are able to complete their B.S. degree and M.S. degree within 5 calendar years because of the accelerated curriculum and because 9 semester hours of 700-level graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program.

Entrance requirements for the 3+2 must adhere to the same requirements for the M.S. Recreation and Park Administration Program in the Graduate Catalog, except entrance examinations (e.g. GRE) are not required for the 3+2 program. Students must fulfill all graduation requirements listed below. Students admitted into the program will remain coded as undergraduate until fulfilling their BS requirements. Students admitted into the 3+2 program must complete the Recreation And Park Administration BS degree with a minimum 3.0 GPA to be allowed to proceed with graduate program coursework.

### Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

### Program Requirements

CIP Code: 31.0301

Students in 3+2 Accelerated Dual Degree program must complete the listed Recreation And Park Administration B.S. program requirements along with the same requirements for the Recreation And Park Administration M.S. Program (presented in the Graduate Catalog:

listing at <http://gradschool.eku.edu/graduate-catalog> (<http://gradschool.eku.edu/graduate-catalog/>)). Nine (9) credit hours of 700-level graduate coursework (REC 716 Rcrtn & Prk Interpretive Srvcs, REC 730 Park Management, and REC 790 Special Topics:\_\_\_\_\_) are applicable to the undergraduate degree.

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Recreation and Park Administration majors will fulfill ACCT with the following. (Credit hours are incorporated into Major and Supporting requirements.)		
REC 463	Internship	
or REC 473	Therapeutic Recreation Internship	
<b>Major Requirements</b>		
<i>Core Courses</i>		
REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 163	Fieldwork I	1
REC 200	Leisure Diversity and Culture	3
REC 263	Fieldwork II	2
REC 311	Introduction to Therapeutic Recreation	3
REC 350	Supervision of Recreation Personnel	3

REC 406	Planning, Design , and Maintenance of Recreation Facilities	3
REC 450W	Senior Seminar	3
REC 801	Park, Rec & Tour Resrch Methds	3
REC 825	Phil of Recreation and Leisure	3
REC 840	Admin Proc & Pract	3

*Concentrations*

Students must select one of the following Concentrations:

Natural Resources and Recreation Management	
Recreation Management and Event Planning	31
Recreation Therapy	
Tourism and Resort Recreation	

*Free Electives*

Choose from 21-23 hours of free electives 21-23

**Total Hours 120-122**

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
REC 190	Challenge Course Introduction	1
REC 225	Recreation Hobbies	3
REC 280	Programming Special Events	3
REC 290	Adventure Programming	3
REC 463	Internship	12
REC 480	Resort Recreation Management	3
REC 530	Park Management	3
REC 516	Recreation and Park Interpretive Services	3
or REC 590	Special Topics:___	
<b>Total Hours</b>		<b>31</b>

**M.S. Recreation and Park Administration Major Requirements**

See M.S. Recreation and Park Administration (p. 740) page.

**Recreation and Park Administration, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Recreation Therapy**

Students may apply for admission to the Accelerated 3+2 Dual Degree program in their junior or senior year. Students are able to complete their B.S. degree and M.S. degree within 5 calendar years because of the accelerated curriculum and because 9 semester hours of 700-level graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program.

Entrance requirements for the 3+2 must adhere to the same requirements for the M.S. Recreation and Park Administration Program in the Graduate Catalog, except entrance examinations (e.g. GRE) are not required for the 3+2 program. Students must fulfill all graduation requirements listed below. Students admitted into the program will remain coded as undergraduate until fulfilling their BS requirements. Students

admitted into the 3+2 program must complete the Recreation And Park Administration BS degree with a minimum 3.0 GPA to be allowed to proceed with graduate program coursework.

**Admission Requirements**

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms/>)
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

**Program Requirements**

CIP Code: 31.0301

Students in 3+2 Accelerated Dual Degree program must complete the listed Recreation And Park Administration B.S. program requirements along with the same requirements for the Recreation And Park Administration M.S. Program (presented in the Graduate Catalog: listing at <http://gradschool.eku.edu/graduate-catalog/>). Nine (9) credit hours of 700-level graduate coursework (REC 716 Rcrtn & Prk Interpretive Svcs, REC 730 Park Management, and REC 790 Special Topics:\_\_\_\_\_ ) are applicable to the undergraduate degree.

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36

*Student Success Seminar*

HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Recreation and Park Administration majors will fulfill ACCT with the following. (Credit hours are incorporated into Major and Supporting requirements.)

REC 463	Internship	
or REC 473	Therapeutic Recreation Internship	

**Major Requirements**

*Core Courses*

REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 163	Fieldwork I	1
REC 200	Leisure Diversity and Culture	3
REC 263	Fieldwork II	2
REC 311	Introduction to Therapeutic Recreation	3
REC 350	Supervision of Recreation Personnel	3
REC 406	Planning, Design, and Maintenance of Recreation Facilities	3
REC 450W	Senior Seminar	3
REC 801	Park, Rec & Tour Resrch Methds	3
REC 825	Phil of Recreation and Leisure	3
REC 840	Admin Proc & Pract	3

*Concentrations*

Students must select one of the following Concentrations:

Natural Resources and Recreation Management	
Recreation Management and Event Planning	30
Recreation Therapy	
Tourism and Resort Recreation	

*Free Electives*

Choose from 22-23 hours of free electives	22-23
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<b>Total Hours</b>	<b>120-121</b>
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**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
REC 210	Equine Assisted Therapeutic Recreation	3
REC 411S	Therapeutic Recreation Services for Senior Adult	3
REC 473	Therapeutic Recreation Internship	12
REC 511	Therapeutic Recreation Practices and Services	3
REC 512S	Management of Therapeutic Recreation Services	3
REC 520	Trends and Issues in Therapeutic Recreation	3
REC 590	Special Topics:___	3
<b>Total Hours</b>		<b>30</b>

**M.S. Recreation and Park Administration Major Requirements**

See M.S. Recreation and Park Administration (p. 740) page.

# Recreation and Park Administration, Bachelor of Science (B.S.) and Master of Science (M.S.) Accelerated 3+2 Dual Degree Program with a Concentration in Tourism & Resort Recreation

Students may apply for admission to the Accelerated 3+2 Dual Degree program in their junior or senior year. Students are able to complete their B.S. degree and M.S. degree within 5 calendar years because of the accelerated curriculum and because 9 semester hours of 700-level graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program.

Entrance requirements for the 3+2 must adhere to the same requirements for the M.S. Recreation and Park Administration Program in the Graduate Catalog, except entrance examinations (e.g. GRE) are not required for the 3+2 program. Students must fulfill all graduation requirements listed below. Students admitted into the program will remain coded as undergraduate until fulfilling their BS requirements. Students admitted into the 3+2 program must complete the Recreation And Park Administration BS degree with a minimum 3.0 GPA to be allowed to proceed with graduate program coursework.

## Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements

CIP Code: 31.0301

Students in 3+2 Accelerated Dual Degree program must complete the listed Recreation And Park Administration B.S. program requirements along with the same requirements for the Recreation And Park Administration M.S. Program (presented in the Graduate Catalog: listing at <http://gradschool.eku.edu/graduate-catalog> (<http://gradschool.eku.edu/graduate-catalog/>)). Nine (9) credit hours of 700-level graduate coursework (REC 716 Rcrtn & Prk Interpretive Srvcs, REC 730 Park Management, and REC 790 Special Topics:\_\_\_\_\_ ) are applicable to the undergraduate degree.

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3

C: Oral Communication (p. 62)	3
<b>Element 2</b>	
Quantitative Reasoning (p. 63)	3
<b>Element 3</b>	
A: Arts (p. 63)	3
B: Humanities (p. 63)	3
<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Recreation and Park Administration majors will fulfill ACCT with the following. (Credit hours are incorporated into Major and Supporting requirements.)		
REC 463	Internship	
	or REC 473 Therapeutic Recreation Internship	

### Major Requirements

<i>Core Courses</i>		
REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 163	Fieldwork I	1
REC 200	Leisure Diversity and Culture	3
REC 263	Fieldwork II	2
REC 311	Introduction to Therapeutic Recreation	3
REC 350	Supervision of Recreation Personnel	3
REC 406	Planning, Design, and Maintenance of Recreation Facilities	3
REC 450W	Senior Seminar	3
REC 801	Park, Rec & Tour Resrch Methds	3
REC 825	Phil of Recreation and Leisure	3
REC 840	Admin Proc & Pract	3

### Concentrations

Students must select one of the following Concentrations:

Natural Resources and Recreation Management
Recreation Management and Event Planning
Recreation Therapy

Tourism and Resort Recreation	30
<i>Free Electives</i>	
Choose from 22-23 hours of free electives	22-23
<b>Total Hours</b>	<b>120-121</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
REC 225	Recreation Hobbies	3
REC 250	Tourism Videography and Social Media	3
REC 280	Programming Special Events	3
REC 380	Natural Resource Tourism	3
REC 480	Resort Recreation Management	3
REC 463	Internship	12
Choose from one of the following:		3
REC 516	Recreation and Park Interpretive Services	
REC 530	Park Management	
REC 590	Special Topics:___	
<b>Total Hours</b>		<b>30</b>

### M.S. Recreation and Park Administration Major Requirements

See M.S. Recreation and Park Administration (p. 740) page.

## Recreation and Park Administration, Bachelor of Science with a Concentration in Natural Resources & Recreation Management (B.S.)

### Program Requirements

CIP Code: 31.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Recreation and Park Administration majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements.)		
REC 463	Internship	
	or REC 473 Therapeutic Recreation Internship	
<b>Major Requirements</b>		
<i>Core Courses</i>		
REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 163	Fieldwork I	1
REC 200	Leisure Diversity and Culture	3
REC 263	Fieldwork II	2
REC 311	Introduction to Therapeutic Recreation	3
REC 350	Supervision of Recreation Personnel	3
REC 401	Management of Recreation Services	3
REC 406	Planning, Design, and Maintenance of Recreation Facilities	3
REC 410	Recreation Research & Evaluation	3
REC 450W	Senior Seminar	3
REC 460	Advanced Leadership and Programming	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		
Natural Resources and Recreation Management		52
Recreation Management and Event Planning		
Recreation Therapy		
Tourism and Resort Recreation		
<i>Supporting Course Requirements</i>		
Choose from 0-13 hours of supporting courses		
13 hours of Recreation Therapy		
<i>Free Electives</i>		
Choose from 9-23 hours of free electives		
23 hours of Natural Resources and Recreation Management		
21 hours of Recreation Management and Event Planning		
9 hours of Recreation Therapy		
22 hours of Tourism and Resort Recreation		
<b>Total Hours</b>		<b>120</b>

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
REC 180	Outdoor Adventure Activities	1
REC 190	Challenge Course Introduction	1
REC 290	Adventure Programming	3
REC 380	Natural Resource Tourism	3
REC 463	Internship	12
REC 516	Recreation and Park Interpretive Services	3
REC 530	Park Management	3
REC 590	Special Topics:___	3
	or WLD 317 Conservation of Wildlife Resources	
<i>Free Electives</i>		
Choose from 23 hours of Natural Resources & Recreation Management free electives		23
<b>Total Hours</b>		<b>52</b>

**Recreation and Park Administration, Bachelor of Science with a Concentration in Recreation Management and Event Planning (B.S.)**

**Program Requirements**

CIP Code: 31.0301

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Recreation and Park Administration majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements.)		
REC 463	Internship	
or REC 473	Therapeutic Recreation Internship	
<b>Major Requirements</b>		
<i>Core Courses</i>		
REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 163	Fieldwork I	1
REC 200	Leisure Diversity and Culture	3
REC 263	Fieldwork II	2
REC 311	Introduction to Therapeutic Recreation	3
REC 350	Supervision of Recreation Personnel	3
REC 401	Management of Recreation Services	3
REC 406	Planning, Design , and Maintenance of Recreation Facilities	3
REC 410	Recreation Research & Evaluation	3
REC 450W	Senior Seminar	3
REC 460	Advanced Leadership and Programming	3
<i>Concentrations</i>		
Students must select one of the following Concentrations:		
Natural Resources and Recreation Management		
Recreation Management and Event Planning		52
Recreation Therapy		
Tourism and Resort Recreation		
<i>Supporting Course Requirements</i>		
Choose from 0-13 hours of supporting courses		0-13
13 hours of Recreation Therapy		
<i>Free Electives</i>		
Choose from 9-23 hours of free electives		
23 hours of Natural Resources and Recreation Management		
21 hours of Recreation Management and Event Planning		
9 hours of Recreation Therapy		
22 hours of Tourism and Resort Recreation		
<b>Total Hours</b>		<b>120-133</b>

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
REC 190	Challenge Course Introduction	1
REC 225	Recreation Hobbies	3

REC 280	Programming Special Events	3
REC 290	Adventure Programming	3
REC 480	Resort Recreation Management	3
REC 463	Internship	12
REC 530	Park Management	3
REC 516	Recreation and Park Interpretive Services	3
or REC 590	Special Topics:___	
<i>Free Electives</i>		
Choose from 21 hours of Recreation Management and Event Planning free electives		21
<b>Total Hours</b>		<b>52</b>

## Recreation and Park Administration, Bachelor of Science with a Concentration in Recreation Therapy (B.S.)

**Program Requirements**

CIP Code: 31.0301

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
HSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		

Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)

ACCT - Recreation and Park Administration majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements.)

REC 463	Internship	
or REC 473	Therapeutic Recreation Internship	

**Major Requirements**

*Core Courses*

REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 163	Fieldwork I	1
REC 200	Leisure Diversity and Culture	3
REC 263	Fieldwork II	2
REC 311	Introduction to Therapeutic Recreation	3
REC 350	Supervision of Recreation Personnel	3
REC 401	Management of Recreation Services	3
REC 406	Planning, Design , and Maintenance of Recreation Facilities	3
REC 410	Recreation Research & Evaluation	3
REC 450W	Senior Seminar	3
REC 460	Advanced Leadership and Programming	3

*Concentrations*

Students must select one of the following Concentrations:

Natural Resources and Recreation Management	
Recreation Management and Event Planning	
Recreation Therapy	52
Tourism and Resort Recreation	

*Supporting Course Requirements*

Choose from 0-13 hours of supporting courses	0-13
13 hours of Recreation Therapy	

*Free Electives*

Choose from 9-23 hours of free electives	
23 hours of Natural Resources and Recreation Management	
21 hours of Recreation Management and Event Planning	
9 hours of Recreation Therapy	
22 hours of Tourism and Resort Recreation	

<b>Total Hours</b>	<b>120-133</b>
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**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
REC 210	Equine Assisted Therapeutic Recreation	3
REC 411S	Therapeutic Recreation Services for Senior Adult	3
REC 473	Therapeutic Recreation Internship	12
REC 511	Therapeutic Recreation Practices and Services	3
REC 512S	Management of Therapeutic Recreation Services	3
REC 520	Trends and Issues in Therapeutic Recreation	3
REC 590	Special Topics:___	3

*Supporting Course Requirements*

EMC 105	Survey of Medical Terminology	1
BIO 307 & BIO 308	Human Anatomy and Physiology I and Human Anatomy and Physiology II	6

Choose from one of the following:

PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
PSY 200W	Introduction to Psychology: Writing Intensive (Element 5B) <sup>G</sup>	
PSY 280	Lifespan Developmental Psych.	3
or PSY 280W	Lifespan Developmental Psychology: Writing Intensive	
PSY 308	Abnormal Psychology	3

*Free Electives*

Choose from nine hours of Recreation Therapy free electives	9
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<b>Total Hours</b>	<b>52</b>
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**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

# Recreation and Park Administration, Bachelor of Science with a Concentration in Tourism & Resort Recreation (B.S.)

## Program Requirements

CIP Code: 31.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
H50 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Recreation and Park Administration majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements.)

REC 463 Internship  
or REC 473 Therapeutic Recreation Internship

**Major Requirements**

*Core Courses*

REC 101	Recreation and Tourism Careers	1
REC 102	Introduction to Recreation Leadership	3
REC 163	Fieldwork I	1
REC 200	Leisure Diversity and Culture	3
REC 263	Fieldwork II	2
REC 311	Introduction to Therapeutic Recreation	3
REC 350	Supervision of Recreation Personnel	3
REC 401	Management of Recreation Services	3
REC 406	Planning, Design, and Maintenance of Recreation Facilities	3
REC 410	Recreation Research & Evaluation	3
REC 450W	Senior Seminar	3
REC 460	Advanced Leadership and Programming	3

*Concentrations*

Students must select one of the following Concentrations:

- Natural Resources and Recreation Management
- Recreation Management and Event Planning
- Recreation Therapy

Tourism and Resort Recreation 52

*Supporting Course Requirements*

Choose from 0-13 hours of supporting courses 0-13  
13 hours of Recreation Therapy

*Free Electives*

Choose from 9-23 hours of free electives

- 23 hours of Natural Resources and Recreation Management
- 21 hours of Recreation Management and Event Planning
- 9 hours of Recreation Therapy
- 22 hours of Tourism and Resort Recreation

**Total Hours 120-133**

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
REC 225	Recreation Hobbies	3
REC 250	Tourism Videography and Social Media	3
REC 280	Programming Special Events	3
REC 380	Natural Resource Tourism	3
REC 480	Resort Recreation Management	3
REC 463	Internship	12
Choose from one of the following:		3
REC 516	Recreation and Park Interpretive Services	
REC 530	Park Management	

REC 590 Special Topics:\_\_\_\_

*Free Electives*

Choose from 22 hours of Tourism & Resort Recreation free electives 22

**Total Hours 52**

**Tourism & Event Planning, Certificate Program Requirements**

Code	Title	Hours
<b>Certificate Requirements</b>		
REC 163	Fieldwork I	1
REC 263	Fieldwork II	2
REC 280	Programming Special Events	3
REC 349	Applied Learning in Recreation and Park Administration	3
REC 380	Natural Resource Tourism	3
REC 460	Advanced Leadership and Programming <sup>1</sup>	3
REC 480	Resort Recreation Management	3
<b>Total Hours</b>		<b>18</b>

1

Course may have pre-requisite or co-requisite

**College of Justice, Safety, and Military Science**

Dr. Derek Paulsen, Dean  
Stratton 354-A  
(859) 622-3565

Dr. Scott Hunt, Associate Dean  
Stratton 354-B  
(859) 622-3565

[www.justice.eku.edu](http://www.justice.eku.edu) (<http://www.justice.eku.edu>)

The College of Justice, Safety and Military Science at Eastern Kentucky University is one of the largest of its type in the United States and is one of the six colleges that comprise the academic structure of the University. Within the College of Justice & Safety is the School of Justice Studies, the School of Safety, Security, & Emergency Management, and the Department of Military Science and Leadership (Army ROTC). Faculty in the College are nationally and internationally known for their teaching, research and service.

The Commonwealth of Kentucky named the College of Justice & Safety as the first Program of Distinction at Eastern Kentucky University in 1998. The Program of Distinction has funded renovations for a new Stratton annex, Ashland Building and Perkins Building, new degree programs, upgraded classrooms and computer labs, provided additional research opportunities for faculty and students, as well as scholarship opportunities for students majoring in programs offered by the college.

Associate, baccalaureate, and master's degree programs are offered by the College of Justice, Safety and Military Science. Many programs are also available online.

The College is committed to a career ladder concept by providing opportunities for students enrolled in or completing associate (two-year)

degree programs to transfer to a corresponding baccalaureate (four-year) program with little or no loss of credit.

Most programs in the College are housed in the Stratton Building, an outstanding and unique facility which includes two annexes, a remodeled shared entrance; renovated student commons and classrooms with new technology, 250-seat auditorium, two computer labs and a cafeteria. The Fire Science programs have additional offices, classroom, and labs in Ashland Building and the Emergency Medical Care program has offices, classrooms and labs in the Stratton Annex.

The Department of Military Science and Leadership (Army ROTC) is housed in the Weaver Building. In addition, ECU has an agreement with the University of Kentucky Aerospace Studies Program for ECU students to be in the Air Force ROTC program on UK's campus.

## Admission to the College

Students seeking admission to The College of Justice, Safety and Military Science must meet general University requirements and should indicate their intention to major in a program of the College.

After being admitted to the College, a student will be assigned to a professional advisor, in the Academic & Advising Center, who will assist in selecting the proper courses leading to the desired degree.

## Degree Requirements

General University degree requirements appear in Section Four of this Catalog, and specific requirements for each of the degree programs offered by the College of Justice, Safety and Military Science appear below; both sets of requirements must be met by students completing associate and baccalaureate programs as well as the minor in the Army ROTC program. Unless otherwise specified, all programs in the College of Justice, Safety and Military Science require a grade of "C" or better for all required major and supporting courses. See the program descriptions under each department for specific major and minor requirements. Common to all programs is the Student Success Seminar.

## Major and Minor Credit Minimum

Unless otherwise specified, regardless of the advanced standing under which the student may have been admitted or what credits have transferred, 18 hours of advanced course work (courses numbered 300 or above) applied for credit toward the major subject for a baccalaureate degree, nine hours of advanced course work applied for credit toward the major subject for an associate degree, and six hours of advanced course work toward major subject for a minor must be earned at Eastern.

## Department of Military Science and Leadership (Army ROTC)

### Chair

LTC Vincent Thomas  
(859) 622-1207  
Weaver 201

### Military Science and Leadership Faculty and Staff

PMS Lieutenant Colonel Vincent Thomas, Administrative Coordinator#  
Claire Jennings, MAJ Colin Corrigan, MAJ Jonathan Hoekzema, CPT

Charles Huber, SFC Cody Taylor, Scholarship and Enrollment Specialist#  
Eric Sheaks, HR Specialist#Rob Roane and Supply Tech#Dennis Murphy

## Reserve Officer Training Corps (ROTC)

**Earning a degree does not necessarily guarantee** employment, however, taking Army ROTC will. The Reserve Officer Training Corps (ROTC) is a premier leadership-training program that prepares you to be a leader in any organization or business. ROTC enhances any Bachelors or Masters Degree program by improving leadership skills, time management skills, goals setting, decision making, team building, mentorship, and achieving success. The skills you develop in ROTC will give you an advantage over your job-seeking peer. After successful completion of the Army ROTC program you will have a full-time job waiting for you as a Commissioned Officer in the United States Army or part time in the Army Reserve or National Guard.

### Career Opportunities

Students who successfully graduate from ECU's Army ROTC program commission as Second Lieutenants and serve with other dedicated young men and women in our nation's defense. As new Lieutenants, officers serve in a variety of branches (career paths), such as Aviation, Armor, Infantry, Transportation, Military Police, Engineers, Army Nurses, to name a few, and can travel worldwide. Starting salary for an active duty Lieutenant is over \$55,000, plus full individual and family medical coverage and 30 days paid vacation annually. For those who desire only a part-time commitment, the Guaranteed Reserve Forces Duty option gives students assurance they will be able to serve their country from home, adding stability to their chosen civilian career in the National Guard or Reserves.

### Leadership Development

ECU's Department of Military Science and Leadership has a proud reputation dating back to 1936. The program has commissioned over 2,200 officers. The program's unique approach to leadership development provides each student various opportunities to refine their own leadership skills and receive individualized performance feedback. The Training is designed around a hands-on, experiential learning curriculum. ROTC students will develop the skills necessary to lead others, but also build confidence by learning how to rappel, negotiate ECU's Challenge Course, fire the M-16 rifle and M-4 Carbine, complete water survival training, and other adventure type activities. Students also learn to live the seven Army Values – Loyalty, Duty, Respect, Selfless Service, Honor, Integrity, and Personal Courage by demonstrating these values as they participate in the Cadet Battalion, the Pershing Rifles Drill Team/Color Guard, Ranger Company, and Raider Team.

### Scholarships and Simultaneous Membership

Eligible students may compete for a variety of Army ROTC Scholarships available on-campus and through the Army National Guard and Army Reserves. These fully funded scholarships pay your choice of 100% tuition or \$10,000 Room & Board with a \$1,200 annual book allowance, and a monthly tax-free living allowance of \$420. Four-year ROTC scholarship recipients and qualified freshman may receive free room and board. Members of the National Guard or Army Reserves who join ROTC under the Simultaneous Membership Program (SMP) may also receive a monthly SMP Kicker of \$350 monthly in addition to the tax-free \$420 ROTC living allowance, Montgomery GI Bill® benefits, and E-5 drill pay. National Guard members get 100% in-state tuition.

## Eligibility and Obligations

Students may enroll in any of the MSL 100-200 level courses without any obligation. Students who desire to seek a commission must sign a contract before entering the Advanced Leadership Course (MSL 300-400 courses); they must also meet certain age, physical fitness, medical, citizenship, security clearance and military experience requirements. Military experience can be satisfied in a variety of methods (check with the ROTC Scholarship and Enrollment Officer at (859) 622-1215 for details). Students contracting into the Advanced Leadership Course will incur a military service obligation upon graduation.

## Scholar-Athlete-Leader

Becoming an Army Officer doesn't just happen; it requires a level of commitment, determination, and selflessness that few civilian careers will ever demand. Army Officers are intellectually curious, mentally adroit, physically robust, and possess a willingness and passion to take charge and make the right things happen. If you are a Scholar-Athlete-Leader who wants to join the world's most sophisticated Army, then join EKU ROTC—*"Where Leadership Excellence Begins."*

## Air Force Reserve Officer Training Corps (AFROTC)

Lt. Col Richard K. Harrop  
Commander, AFROTC Detachment 290 and Professor of Aerospace Studies  
University of Kentucky (Host School)  
859-257-7115

## Air Force Faculty

Major Troy Kenning & Captain Anthony Noto

## Air Force ROTC Scholarships

The types of financial assistance available through Air Force ROTC are briefly described below. For further details on eligibility and requirements, contact the

Department of Aerospace Studies  
203 Barker Hall  
University of Kentucky  
Lexington, KY, 40506-0028  
(859) 257-7115

or visit <https://afrotc.as.uky.edu/> for more information. Additional information is also listed in this Bulletin under Aerospace Studies.

## High School Scholarship Program (HSSP)

Scholarships are available to those qualified and selected students who enroll in the Air Force ROTC program. These scholarships cover tuition and laboratory fees, provide an allowance for books, and provide a graduated nontaxable subsistence allowance ranging from \$300 to \$500 per month. Qualified high school students can apply for four-year Air Force ROTC scholarships. Applicants for four-year scholarships are evaluated on the basis of the following criteria: a composite score on the ACT, or a composite score on the SAT; the applicant's high school academic record; class ranking; extracurricular and athletic activities; personal interview; and ability to qualify on an Air Force medical examination. High school students who meet the basic eligibility requirements for a four-year scholarship must submit an application anytime **May 1st through December 1** of the year prior to enrollment in

the program (usually the spring of their Junior year into the Fall of their Senior year).

All selections for four-year scholarships are made at Air Force ROTC headquarters. Students meet regularly scheduled boards from September to February (which is dependent upon when they officially apply). High school students should apply online at: [www.afrotc.com](http://www.afrotc.com) (<http://www.afrotc.com>). For additional information, contact the

Air Force ROTC Detachment  
203 Barker Hall  
University of Kentucky  
Lexington, KY 40506-0028  
or by phone at (859) 257-7115.

## In College Scholarship Program (ICSP)

Scholarships are awarded to students enrolled as cadets currently in the Air Force ROTC program on a competitive basis. Depending on the particular scholarship program, selection may be made on campus by the Air Force ROTC detachment commander or at Air Force ROTC headquarters. Scholarships may be awarded for up to three and a half years of study. Students interested in these scholarships should call (859) 257-7115 for the latest information. (Freshman Students are not eligible for an ICSP until they have completed one full-time semester of college education. Typically Freshman ICSP scholarships will be given starting Spring Semester of their freshman year, and students in the program could be award a scholarship from Spring Semester freshman status through Spring Semester sophomore status.)

Furthermore, the **HQ AFROTC ICSP** is an in college scholarship program available to students pursuing a degree in a critical areas needed by the Air Force. These scholarships can be up to three and a half years. These scholarships are awarded on a competitive basis for those who qualify. ICSP scholarships have historically been awarded to cadets pursuing academic majors in electrical and computer engineering, nursing, and certain foreign language studies. Selections for these particular in college scholarship program are made at Air Force ROTC headquarters. Critical areas are updated every year and are subject to change without notice. For current information, call (859) 257-7115.

Information is current as of January 2015 and is subject to change.

## Minor

- Military Leadership (ARMY), Minor (p. 254)

## Non-Degree

- Aerospace Studies (Air Force ROTC) (p. 253)

## Courses

### Aerospace Studies

#### AFS 111. Aerospace Studies I. (1 Credit)

I. This course deals with the Air Force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces, and aerospace support forces.

#### AFS 112. Leadership Seminar. (1 Credit)

I. Introduces Air Force customs and courtesies, drill and ceremonies, and wear of the uniform. The course also includes a discussion of career opportunities in the Air Force.

#### AFS 113. Aerospace Studies I. (1 Credit)

A continuation of AFS 111.

**AFS 114. Leadership Seminar. (1 Credit)**

I. A course designed to develop managerial skills including superior/subordinate relationships, communications, customs and courtesies, basic drill movements and career progression requirements. Credit will not be granted toward the hours requirements for the degree. Pass/fail only.

**AFS 211. Aerospace Studies II. (1 Credit)**

I. This course is a study of air power from balloons and dirigibles through the jet age. It is an historical review of air power employment in military and nonmilitary operations in support of national objectives; and a look at the evolution of air power concepts and doctrine.

**AFS 212. Leadership Seminar. (1 Credit)**

I. Air Force customs, courtesies and opportunities are emphasized. The cadet is prepared for individual, flight and squadron movements in drill and ceremonies.

**AFS 213. Aerospace Studies II. (1 Credit)**

A continuation of AFS 211.

**AFS 214. Leadership Seminar. (1 Credit)**

II. Emphasis on preparing cadets for attendance at field training during succeeding summer.

**AFS 311. Aerospace Studies III. (3 Credits)**

I. Prerequisite: acceptance into the professional officer course. A study of management functions with emphasis on the environment. Individual motivational and behavioral process, communication, and group dynamics are included for the development of professional skills.

**AFS 312. Aerospace Seminar. (1 Credit)**

I. Involves the cadets in advanced leadership experiences to prepare for active duty. Cadet responsibilities include planning, organizing, directing, coordinating, and controlling the activities of the cadet corps and preparing briefings and written communications.

**AFS 313. Aerospace Studies III. (3 Credits)**

II. Prerequisite: AFS 311. A study of leadership with specific emphasis on the Air Force leader. Includes theoretical, professional, and communicative aspects. In addition, military justice and administrative law are discussed within the context of the military organization.

**AFS 314. Leadership Seminar. (1 Credit)**

I. Cadets continue preparations for fulfilling leadership positions as an active duty Air Force officer.

**AFS 411. Aerospace Studies IV. (3 Credits)**

I. Prerequisites: AFS 311 and 313. A study of the military profession, civil-military interactions, communication skills, framework of defense policy, and formulation of defense strategy.

**AFS 412. Leadership Seminar. (1 Credit)**

I. Involves the cadets in higher level advanced leadership experiences. In addition, the cadets receive a final block of instruction for Initial Commissioned Service.

**AFS 413. Aerospace Studies IV. (3 Credits)**

II. Prerequisite: AFS 411. Continues the study of strategy and the management of conflict, formulation and implementation of U.S. defense policy, defense organization, and case studies in defense policy making.

**AFS 414. Leadership Seminar. (1 Credit)**

II. Cadets prepare for Initial Commissioned Service by fulfilling advanced leadership positions. Continued emphasis on group dynamics and the role of future leaders in the Air Force.

**AFS 495. Independent Work. (2-6 Credits)**

A. Prerequisite: approval of professor of aerospace studies. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. A study of an advanced problem on an aerospace subject under the guidance of the Chairman of the Department of Aerospace Studies.

**Military Science and Leadership****MSL 101. Introduction to the Army and Critical Thinking. (2 Credits)**

I. Cadets will learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness related to leadership, officership, and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions, attributes and core leader competencies while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for the student. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 1 Lec/1 Lab.

**MSL 102. Introduction to the Profession of Arms. (2 Credits)**

(2) II. Cadets will learn how Army ethics and values shape the Army and the specific ways that these ethics are inculcated into Army culture. Cadets can expect to explore the seven Army Values, Warrior Ethos, explore the Profession of Arms, Army Leadership and critical communication skills. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 1 Lec/1 Lab.

**MSL 201. Leadership and Decision Making. (2 Credits)**

(2) I. Primarily is drawn from the Adaptability Army Learning Areas (ALA). The outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP). Comprehension of the officer's role in leading change by applying innovative solutions to problems in concert with the Principals of Mission Command. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 2 Lec/1 Lab.

**MSL 202. Army Doctrine and Team Decision. (3 Credits)**

(3) II. Begins the journey to understand and demonstrate cross-cultural competencies as they relate to Army doctrine and how they apply in a combatant commander's engagement strategies. Army values, teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military science are also stressed. The ability to lead and follow is also covered through team building exercises in small units up to squad level. Students are required to apply their knowledge outside the classroom in hands-on performance-oriented environment during Leadership LABS. 2.5 Lec/2.5 Lab.

**MSL 210. Basic Camp. (5 Credits)**

(5) Summer Only. A comprehensive leader training course which can be taken in lieu of 201 and 202. This course emphasizes an experiential, hands-on approach to leader development. Held at Fort Knox, Kentucky. Students are paid to attend.

**MSL 298. Independent Leadership Studies. (2,3 Credits)**

A. Prerequisite: departmental approval; may be taken once in lieu of MSL 201 or 202. Students record observed traits in a dimensional leadership journal and discuss observations with instructor. Independent examination of effective leadership, communications, goal setting, decision-making, problem solving, and quality improvement techniques. 2.5 Ind Stu/2.5 Lab.

**MSL 301. Training Management and the Warfighting Functions. (3 Credits)**

(3) I. Prerequisites: 54 hours, MSL 201 and MSL 202 or MSL 210; or Departmental approval. Challenges cadets to study, practice and apply the fundamentals of Army Leadership, Officership, Army values and ethics, personal development, and small unit tactics at the platoon level. Cadets receive systematic and specific feedback on their leadership attributes values, and core leader competencies from instructor, other ROTC cadre, and MSL IV cadets using the Cadet Officer Evaluation System (OES). Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 2.5 Lec/2.5 Lab.

**MSL 302. Applied Leadership in Small Unit Operations. (3 Credits)**

(3) II. Prerequisite: MSL 301 or departmental approval. Builds on the lessons learned and leadership attributes gained and developed during MSL 301. This is an academically challenging course where cadets will study, practice, and apply the fundamentals of the Army leadership, officership, Army values and ethics, personal development and small unit tactics at the platoon level. At the conclusion of this course, cadets will be capable of planning coordinating, navigating, motivating and leading a squad and platoon in the execution of a mission during a classroom PE, a Leadership Lab, or during a Leader Training Exercise (LTX). Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). Lab 2.5 Lec/2.5 Lab.

**MSL 303. American Military History. (3 Credits)**

I. Prerequisite: ENG 102 or ENG 105(B) or HON 102. Examines U.S. Military History from pre-revolutionary times to Global War on Terrorism, Applies the THreads of Continuity model, defines the (9) principles of war; (5) forms of maneuver, analyzes the political-economic-technological-social impacts on the military. Develops leadership through individual/group contribution participation in case studies, classroom presentations, book report, battle analysis, and battlefield staff ride/museum tour. Gen Ed Element 5A-History.

**MSL 310. Advance Camp. (6 Credits)**

(6) Summer Only. Prerequisite: MSL 302. Refines student leadership and teamwork building skills through intensive practical application, rotating leader/command experience involving problem analysis, decision-making, and troop leading in both garrison and field environments. Held at Fort Lewis, Washington.

**MSL 311. Internship in Leadership. (3 Credits)**

Summer Only. Pre and Corequisites: MSL 301, MSL 302 and enrolled in MSL 310. Students assigned to leadership positions with active army units for 3-4 weeks. Students are paid and receive a written evaluation of their leadership performance and potential and must complete an after action report upon returning. May only be taken once.

**MSL 401. The Army Officer. (3 Credits)**

(3) I. Prerequisite: MSL 302 or departmental approval. Develops cadet proficiency in planning, executing and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Cadets assess risk make ethical decisions, and lead fellow Army ROTC cadets. They identify responsibilities of key staff, coordinate staff roles and use situational opportunities to teach, train and develop subordinates. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). .5 Lec/2.5 Lab.

**MSL 402. Company Grade Leadership. (3 Credits)**

(3) II. Prerequisite: MSL 401 or departmental approval. Explores the dynamics of leading in the complex situations of current military operations in today's operational environment. Cadets examine difference in customs and courtesies, military law, principles of war and rules of engagement in the face of international terrorism. They also explore aspects of interacting with nongovernmental organizations, civilians on the battlefield and host nation support. The course places significant emphasis on preparing cadets for their first unit of assignment. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 2.5 Lec/2.5 Lab.

**MSL 403. Topics in Military Leadership. (1 Credit)**

A. Prerequisite: MSL 402. Study of current issues relevant to the professional development and commissioning of Second Lieutenants in the United States Army. May repeat with different topics for a maximum of 4 hours. 1 Lec/1 Lab.

**MSL 498. Advanced Independent Leadership Studies. (3 Credits)**

A. Prerequisite: departmental approval; may be taken twice in lieu of MSL 301, 302, 401, or 402. Equivalent study of the materials covered in the course being replaced. 2.5 Ind Stu/2.5 Lab.

## Aerospace Studies (Air Force ROTC)

The Department of Aerospace Studies provides a campus education program through which qualified students can simultaneously earn an Air Force commission and a college degree. Faculty members are experienced, active duty Air Force officers with advanced degree.

## Requirements

- An academic major in aerospace studies is not offered. However, by successfully completing the Air Force ROTC program, a qualified student may concurrently earn a commission as an active duty Air Force Second Lieutenant while completing requirements for a degree. Students may enroll in some Aerospace Studies courses without joining the Air Force ROTC cadet corps. For more information, call (859) 257-7115.

**Note:** Entry into the POC years is competitive and is based on

- Air Force Officer Qualifying Test scores
- Grade-point average
- Evaluation by the AFROTC Detachment Commander
- Only physically qualified students in good academic standing may compete for entry into the POC.

- Typically, these courses are for those cadets who have already completed the courses in the GMC, but the courses are open to any UK students.

## Field Training

Field training is offered at Maxwell Air Force Base in Alabama. Students receive officer training and leadership development with other students. Simultaneously, the Air Force has an opportunity to evaluate each student as a potential member of its officer corps. Field training courses include cadet orientation, survival training, officer training, aircraft and aircrew orientation, physical training, organizational and functional aspects of an Air Force base, career orientation, small arms familiarization, first aid, and other supplemental training.

## Scholarships

Students interested in AFROTC scholarships should refer to the Student Financial Aid, Awards, and Benefits section of this Bulletin or call (859) 257-7115. Information is subject to change.

## Admission to the Program

- Non-scholarship freshmen and sophomores may register for Air Force Studies (AFS) courses without incurring a military commitment.
- Students with a minimum of five semesters of school remaining in a graduate or undergraduate status may qualify for Air Force ROTC. For more information, call (859) 257-7115.

## Program Requirements

### AFROTC Curriculum

The AFROTC curriculum consists of both academic classes and leadership laboratory or seminar classes.

- The General Military Course (GMC) is a two-year course normally taken during the freshman and sophomore years.
- The Professional Officer Course (POC) is a two-year course normally taken during the junior and senior years. Along with academic classes each semester, all cadets also take leadership laboratory classes.

In the GMC, there are four academic classes:

Code	Title	Hours
<b>Freshman Semesters</b>		
AFS 111	Aerospace Studies I (offered in Fall semesters)	1
AFS 113	Aerospace Studies I (offered in Spring semesters)	1
<b>Sophomore Semesters</b>		
AFS 211	Aerospace Studies II (offered in Fall semesters)	1
AFS 213	Aerospace Studies II (offered in Spring semesters)	1

These cover two main themes – the development of air power and the contemporary Air Force in the context of the U.S. military organization. The GMC academic classes are open to any UK student.

In the POC, there are four academic classes:

Code	Title	Hours
<b>Junior Semesters</b>		
AFS 311	Aerospace Studies III (offered in Fall semesters)	3
AFS 313	Aerospace Studies III (offered in Spring semesters)	3
<b>Senior Semesters</b>		

AFS 411	Aerospace Studies IV (offered in Fall semesters)	3
AFS 413	Aerospace Studies IV (offered in Spring semesters)	3

These cover Air Force management and leadership and national security studies.

Students enrolled as cadets are required to be involved once a week in a 1-credit-hour course in the cadet corps training program designed to simulate a typical Air Force organization and its associated functions. This course is known as Leadership Laboratory. Cadets are required to take all of the Leadership Laboratories each semester (fall and spring only) concurrent with their AFS courses listed above. UK students taking the courses electively are not required to take Leadership Laboratory but are also welcome. If there are questions please refer to 859-257-7115 for further inquiries on the matter.

### GMC Years

Code	Title	Hours
<b>Freshman Semesters</b>		
AFS 112	Leadership Seminar (Fall)	1
AFS 114	Leadership Seminar (Spring)	1
<b>Sophomore Semesters</b>		
AFS 212	Leadership Seminar (Fall)	1
AFS 214	Leadership Seminar (Spring)	1

### POC Years

Code	Title	Hours
<b>Junior Semesters</b>		
AFS 312	Aerospace Seminar (Fall)	1
AFS 314	Leadership Seminar (Spring)	1
<b>Senior Semesters</b>		
AFS 412	Leadership Seminar (Fall)	1
AFS 414	Leadership Seminar (Spring)	1

The leadership laboratories are largely cadet-planned and conducted under the concept that they provide leadership training experiences that will improve the cadets' capabilities as Air Force officers. This also involves three hours of physical training each week. Leadership laboratory is open to students who are members of the Air Force Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Air Force ROTC Detachment Commander.

## Military Leadership (ARMY), Minor

A minor in Military Leadership is available to students from any College who wish to obtain a commission as an officer in the United States Army, Army Reserve, or Army National Guard. Students must satisfactorily complete both the Basic Course and the Advanced Course requirements.

## Program Requirements

Code	Title	Hours
<b>Requirements</b>		
<i>Basic Course</i>		
Choose from one of the following Options:		
Option 1:		
	Basic Training	
Option 2:		
	The Basic Camp	

**Option 3:**

MSL 101	Introduction to the Army and Critical Thinking	
MSL 102	Introduction to the Profession of Arms	
MSL 201	Leadership and Decision Making	
MSL 202	Army Doctrine and Team Decision	
Or four years of JROTC		
<i>Advanced Course</i>		
MSL 301	Training Management and the Warfighting Functions	3
MSL 302	Applied Leadership in Small Unit Operations	3
MSL 303	American Military History	3
MSL 310	Advance Camp	6
MSL 401	The Army Officer	3
MSL 402	Company Grade Leadership	3
<b>Total Hours</b>		<b>21</b>

## School of Justice Studies

### Interim Chair

Dr. Victoria Collins  
Stratton Building, Room 467

### Faculty

K. Blevins, J. Brent, A. Brisman, V. Collins, C. Dewhurst, G. Ferrell, J. Gilliam, S. Hunt, S. Kappeler, P. Kraska, M. Land, C. Lawson, B. Matthews, W. McClanahan, K. Minor, D. Paulsen, C. Root, J. Schept, I. Soderstrom, J. Wells, and S. Williams.

## College of Justice and Safety Residency Requirement

*The College of Justice, Safety and Military Science requires that students graduating with a baccalaureate degree from the School of Justice Studies, or the School of Safety, Security, and Emergency Management, must earn a minimum of 18 upper division credit hours in the home subject of their major (excluding co-op and applied learning), as specified by Degree Works.*

Eastern Kentucky University (EKU) has been certified by the State Council of Higher Education for Virginia (SCHEV) to operate in Virginia.

### EKU's Main Campus Address

Eastern Kentucky University  
521 Lancaster Ave  
Richmond, KY 40475  
Phone: (589) 622-1000

### EKU/ Mountain Empire Community College (MECC) Campus Address

Eastern Kentucky University  
Dalton Cantrell Hall  
3441 Mountain Empire Road  
Big Stone Gap, VA 24219  
Phone: (276) 523-8297

- Each course or degree, diploma, or certificate program offered in Virginia is approved by the Kentucky Council on Post-Secondary Education (CPE), which is Eastern Kentucky University's governing body.

- The Kentucky Council on Post-Secondary Education (CPE) has granted Eastern Kentucky University the approval to:
  - Offer courses or degree, diploma, or certificate programs at the level for which credit is being awarded for those courses or programs in Virginia; and
  - Ensure that any credit earned for coursework offered by EKU in Virginia may be applied to other degree or certificate programs, as applicable, offered at other EKU locations outside of Virginia.
- Eastern Kentucky University will provide:
  - formal advising for EKU/MECC students by appointment through the link below,
  - informal advising for EKU/MECC students during their education, and
  - career advising/counseling - all at the Virginia location.

## Bachelor's

- Corrections and Juvenile Justice Studies, Bachelor of Science (B.S.) (p. 262)
- Criminal Justice, Bachelor of Science (B.S.) (p. 263)
- Police Studies, Bachelor of Science (B.S.) (p. 265)

## Minor

- Criminal Justice, Minor (p. 264)
- Police Studies, Minor (p. 266)
- Social Justice, Minor (p. 266)

## Certificate

- Correctional Intervention Strategies, Certificate (p. 262)
- Juvenile Justice, Certificate (p. 264)

## Courses

### Correctional and Juvenile Justice Studies

#### COR 201. Introduction to Corrections. (3 Credits)

A. Introduction to historical, philosophical, and operational frameworks of US corrections. Debates the goals of punishment explores institutional and community-based sentencing options.

#### COR 302. Living and Working in Prison. (3 Credits)

A. Cross-listed as CRJ 302. Examines inmate subcultures and violence in prisons. Analyzes prison environment for correctional officers. Explores life behind bars/offender difficulties in reentering society. Credit will not be awarded to students who have credit for COR 301 or CRJ 302.

#### COR 303. The Offender in the Community. (3 Credits)

A. Formerly: COR 330. Cross-listed as CRJ 303. Explores impact offenders have on community. Examines formal correctional options and alternative methods social control used to manage offenders in community. Credit will not be awarded with CRJ 303 or COR 330.

#### COR 311. The Juvenile Justice System. (3 Credits)

A. Cross-listed with CRJ 311. Examines the evolution of the juvenile justice system, police response to delinquency, and juvenile court's roles in protecting the public and serving children. Credit will not be awarded for both CRJ 311 and COR 311.

#### COR 321. Delinquency Interventions. (3 Credits)

A. Provides in-depth analysis of risk factors of delinquency. Examines effectiveness of individual, school, and family-based interventions in both community and residential settings.

**COR 322. School- Based Interventions for At-Risk Youth. (3 Credits)**

A. Formerly COR 320. Examines school-based problems and interventions commonly experienced by at-risk youth. Discusses strategies for effective collaboration between schools and other youth-serving organizations. Credit will not be awarded for both COR 322 and COR 320: School Board Interventions for at Risk Youth.

**COR 323. Legal Issues in Adult Corrections. (3 Credits)**

A. Cross-listed as CRJ 323. An overview of legal court decisions related to adult corrections. Analyzes legal issues surrounding adult correctional contexts and practices. Credit will not be awarded to students who have credit for COR 315 or CRJ 323.

**COR 330. Community Corrections. (3 Credits)**

A. Surveys history and current status of community correctional programs, including diversion, probation, parole, and other community programs for adult offenders, with emphasis on programmatic philosophies, operations, effectiveness, and other related issues.

**COR 340. Correctional and Juvenile Justice Administration. (3 Credits)**

A. Introduces students to organizational theory and managerial theory and managerial principles, and examines their application to the unique challenges of correctional and juvenile justice settings.

**COR 349. Applied Learning in Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisors, in placements related to academic studies. Total hours: six, baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 349A. Cooperative Study: Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisors, in placements related to academic studies. Total hours: six, baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 349B. Cooperative Study: Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisor in placements related to academic studies. Total hours: six baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 349C. Cooperative Study: Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisor in placements related to academic studies. Total hours: six baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 349D. Cooperative Study: Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisor in placements related to academic studies. Total hours: six baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 350. Rehab. Strategies for Offender. (3 Credits)**

A. An in-depth examination of the treatment role of the correctional worker in juvenile and adult settings. Includes an historical and theoretical review with particular emphasis on contemporary approaches to treatment. Both institutional and community-based efforts are discussed.

**COR 360. Rehabilitation Strategies for Adult and Juvenile Offenders. (3 Credits)**

A. Cross-listed as CRJ360. Debates the rehabilitative goal of corrections and juvenile justice. Examines contemporary strategies and their effectiveness in controlling/changing offender behavior. Credit will not be awarded to students who have credit for COR 350 or CRJ 360.

**COR 375. Applied Skills Practicum. (1-6 Credits)**

A. Prerequisites: Departmental approval. Designed primarily for in-service personnel and others where COR 349 is inappropriate, this course provides the student with opportunity to integrate academic knowledge with a field experience.

**COR 410. Female Offenders. (3 Credits)**

A. Formerly COR 423. Cross listed as CRJ 410. Analyzes Analyzes how policy and practice has impacted female arrests and incarceration. Explores gendered pathways to crime and the importance of gender-specific programming. Credit will not be awarded for both COR 410 and COR 423: "Women in Corrections".

**COR 412. Exploring the Death Penalty. (3 Credits)**

A. Introduction to the history and use of the death penalty in the US. Examines purpose, fairness, and efficacy of death penalty through balanced coverage of the debate. Credit not awarded to students who have credit for COR 320: Exploring the Death Penalty.

**COR 413. Addressing Mental Health and Substance Abuse Needs of Adult Offenders. (3 Credits)**

A. Cross-listed as CRJ 413. Examines etiology and effects of substance abuse/mental health problems of adult offenders. Describes intervention strategies. Credit not awarded to students who have credit for CRJ413 or COR 320: Addressing Mental Health & Substance Abuse Needs of Adult Offenders.

**COR 420. Diversity in Corrections. (3 Credits)**

A. Cross-listed as AFA 346, CRJ 345, WGS 345. Focuses on issues, status, and special needs of "non-mainstream" sub-populations within the US correctional system, both inmates and personnel.

**COR 421. Intervening with Juvenile Sex Offenders. (3 Credits)**

(3) A. Formerly COR 423. Provides comprehensive overview of field of juvenile sex offenders and the risk they pose. Focuses on etiology, evaluation, assessment, treatment, and management of juvenile sex offenders. Credit will not be awarded to students who have credit for COR 423: Intervening w/ Juvenile Sex Offenders.

**COR 422. Legal Issues in Juvenile Justice. (3 Credits)**

(3) A. Introduces the major bodies of law that inform juvenile justice practice and examines juvenile's legal rights. Credit will not be awarded to students who have credit for COR 316 or COR 423 "Advanced Legal Issues in Juvenile Justice".

**COR 423. Topical Seminar:\_\_\_\_. (1-3 Credits)**

A. Intensive study of selected topics related to corrections and juvenile justice. May be retaken to a maximum of twelve hours on different topics.

**COR 450S. Service Learning in COR. (3 Credits)**

A. Prerequisites: Departmental approval. Intensive study of selected topics on corrections and juvenile justice. Students will engage in an experiential, or service, activity related to the topic. May be retaken for a maximum of six hours on different topics.

**COR 460. Independent Study. (1-6 Credits)**

A. Prerequisites: Departmental approval. Individual study and/or research on a problem pertaining to corrections and/or juvenile justice. Student must have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment.

**COR 470. Delinquency & Crime Prevention. (3 Credits)**

A. Prerequisite: departmental approval. Policy-relevant research designed to broaden program evaluation experience through assignments in evaluation planning, research design, data interpretation/analysis, and translation of findings to policy. Activities conducted in classroom, computer laboratory, and in the field. May be retaken for 6 hours in program.

**Criminal Justice****CRJ 101. Introduction to Criminal Justice. (3 Credits)**

A. A general overview of the criminal justice system including a description of the major agencies: police, prosecution, courts, and corrections, and an analysis of their interdependence in the criminal justice process.

**CRJ 204. Foundations of Corrections. (3 Credits)**

An overview of the evolution, structure, and functioning of corrections in the United States. Examines correctional processes, populations, and issues.

**CRJ 301. Drugs, Crime, and Society. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. An examination of drug trafficking, the connection between drug use and other types of crime, and a review of drug control policies, including the impact of the media and politics.

**CRJ 302. Living and Working in Prison. (3 Credits)**

A. Cross-listed as COR 302. Examines inmate subcultures and violence in prisons. Analyzes prison environment for correctional officers. Explores life behind bars/ offender difficulties in reentering society.

**CRJ 303. Community Corrections. (3 Credits)**

A. Cross-listed as COR 303. Explores impact offender have on community. Examines formal correctional options and alternative methods of social control used to manage offenders in community. Credit will not be awarded for both CRJ 303 and COR 303.

**CRJ 305. Domestic Violence. (3 Credits)**

A. Cross listed as WGS 305. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or WGS 201 or departmental approval. Examination of the theoretical and empirical literature on violence against women, children, and elders. Addresses such issues as physical and sexual abuse of children, courtship violence, domestic violence, marital rape, and elder abuse. Credit will not be awarded to students who have credit for WGS 305.

**CRJ 310. Gangs and Society. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Explores the historical and contemporary development of street and institutional gangs. Examines the nature and definition of gangs, types of gangs, and diversity of membership of gangs. Analyzes social responses in the form of legislation, intervention and prevention strategies, public policy, media portrayals, and law enforcement. Identifies and assess social, behavioral, cultural theories of gangs and society. Credit will not be awarded for both CRJ 310, Gangs and Society, and CRJ 423, Topical Seminar: Gangs.

**CRJ 311. Juvenile Justice System. (3 Credits)**

A. Cross-listed as COR 311. Examines the evolution of the juvenile justice system, police response to delinquency, and juvenile court's role in protecting the public and serving children. Credit will not be awarded for both CRJ 311 and COR 311.

**CRJ 313. Criminal Justice Ethics. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the moral, legal and normative obligations of the state and criminal justice professionals. Surveys the philosophies and theories of ethics and deviance. Credit will not be awarded for both CRJ 313 and CRJ 313W.

**CRJ 313S. Criminal Justice Ethics. (3 Credits)**

A. Prerequisites: CRJ 101 with a grade of "C" or better, sophomore standing, or departmental approval. Examines the moral, legal and normative obligations of the state and criminal justice professionals. Surveys the philosophies and theories of ethics and deviance enhanced with a service-learning component. Credit will not be awarded to students who have credit for CRJ 313.

**CRJ 314. Law and Society. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critically examines law in everyday life. Law infuses popular media, constructs (and constrains) identity, and pervades language. In turn, media, identity, and discourse construct our understandings of law. Particular attention is paid to the law's role in practices and discourses of resistance and in exerting social control.

**CRJ 315. Administration of Justice. (3 Credits)**

A. Prerequisites: CRJ 101 with a grade of C or better, sophomore standing, or departmental approval. Examines theories of organization and management as they relate to criminal justice practice. Organizational life, leadership personnel management, bureaucracy, resource management, and other critical administration issues are addressed.

**CRJ 323. Legal Issues in Adult Corrections. (3 Credits)**

A. Cross-listed as COR 323. An overview on legal court decisions related to adult corrections. Analyzes legal issues surrounding adult correctional contexts and practices. Credit will not be awarded for both CRJ 323 and COR 323.

**CRJ 325. White Collar/Crimes of the Powerful. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A review and analysis of the upper world crimes of business and government committed in the course of legitimate occupations and financial activities.

**CRJ 331. Criminological Theory. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of criminological theoretical perspectives that attempt to explain crime. Credit will not be awarded for both CRJ 331 and CRJ 331W.

**CRJ 331W. Criminological Theory. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or ENG 105 or HON 102 and CRJ 101 or PLS 103 or SJS 101 or COR 201. Overview of criminological perspectives that attempt to explain crime. Credit will not be awarded for both CRJ 331W and CRJ 331.

**CRJ 340. Crime and Media. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critiques images of crime, criminals and punishment in American popular culture. Examines news media, film and television as sites of cultural production and consumption. Credit will not be awarded to students who have credit for CRJ 423 Topical Seminar: Crime and Media.

**CRJ 342. Victimology. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Explores the 'meaning' of victim and the social response to the victimization experience. Theories are utilized to examine victimization at the individual, organizational and societal levels within the U.S. and globally. Credit not awarded to students who have credit for CRJ 423 Victimology.

**CRJ 344. Violence Against Women. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201+ or departmental approval. Cross listed as WGS 344. Explores the social character of violence against women. A variety of theories are utilized to examine this phenomenon at the individual, organizational and societal levels. Credit will not be awarded to students who have credit for CRJ 423 Topical Seminar: Violence Against Women or WGS 344 Violence Against Women.

**CRJ 350. International and Comparative Criminal Justice Systems. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A survey of selected world criminal justice systems including police, courts, and corrections. Cross-national and cross-cultural criminality from several perspectives will be examined.

**CRJ 355. Rural Crime and Justice. (3 Credits)**

A. Prerequisite: APP 200 or CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Survey of rural crime and justice issues, crime trends, policing, and control of rural crime with particular attention given to Kentucky and Appalachia. Credit will not be awarded for both CRJ 355 and APP 355.

**CRJ 360. Rehabilitation Strategies for Adult and Juvenile Offenders. (3 Credits)**

A. Cross-listed as COR 360. Debates the rehabilitative goal of corrections and juvenile justice. Examines contemporary strategies and their effectiveness in controlling/changing offender behavior. Credit will not be awarded for both CRJ 360 and COR 360.

**CRJ 374. Wildlife Crime. (3 Credits)**

Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Explores wildlife crime as a subset of green criminology (the criminological study of environmental crimes and harms). Examines the nature and scope of wildlife crime, as well as responses thereto in the form of wildlife law, legislation, policy development, nongovernmental organizations, and law enforcement. Ideas and recommendations for addressing wildlife crime by justice systems are considered. Credit will not be awarded for both CRJ 374, Wildlife Crime, and CRJ 423, Topical Seminar: Wildlife Crime, or CRJ 423, Topical Seminar: Policing Wildlife.

**CRJ 375. Climate Change and Crime. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of climate change and its effects. Draws on leading crime theories to discuss the potential impact of climate change on crime. Credit will not be awarded for both CRJ 375 Climate Change and Crime and CRJ 406 Critical Issues in CRJ: Climate Change and Crime.

**CRJ 388. Research Methods. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of the research process, with emphasis on finding, using, and evaluating criminal justice research. Examination of both quantitative and qualitative social science research methods and procedures appropriate to the study of crime policy and criminal justice. Credit will not be awarded to students who have credit for CRJ 388W.

**CRJ 388W. Research Methods. (3 Credits)**

A. Prerequisite: ENG 102 or 102R, or ENG 105, or HON 102 and CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of the research process, with emphasis on finding, using and evaluating criminal justice research. Examination of both quantitative and qualitative social science research methods and procedures appropriate to the study of crime policy and criminal justice. Credit will not be awarded to students who have credit for CRJ 388.

**CRJ 400. Criminal Justice Statistics. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Analytical and statistical concepts and procedures relevant to crime and criminal justice data. Includes quantitative and qualitative techniques.

**CRJ 401. Organized Crime. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. History, scope, and methods of control of organized crime. Emphasis on local, regional, national and international control of organized crime. Cultural and social implications of the presence of organized crime are examined in depth.

**CRJ 403. Crime Mapping. (3 Credits)**

A. Prerequisite: sophomore standing. The purpose of this class is to introduce the student to theoretical and practical aspects of crime mapping and the spatial analysis of crime. In addition the lab portion of the class will provide hands-on training in crime mapping practices. 3 Lec/2 Lab.

**CRJ 406. Critical Issues in Criminal Justice. (1-6 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201, sophomore standing, or departmental approval. Examination of the criminal justice system and process with an emphasis on problems and trends. This course provides an analytical overview of justice and its response to the needs of society. May be retaken for a maximum of six hours on different topics.

**CRJ 411. Capital Punishment in the U.S.. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the historical and contemporary administration of the death penalty in the United States. Credit will not be awarded for both CRJ 411 Capital Punishment in the U.S. and CRJ 423 Topical Seminar: Capital Punishment in the U.S.

**CRJ 412. Gender, Class, and Race. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critically examines gender, class and race and their intersections as they pertain to crime, offending, victimization, and punishment. This course will lead students to an understanding of how the criminal justice apparatus operates within larger social, political, and economic systems of oppression and domination over marginalized populations.

**CRJ 413. Addressing Mental Health and Substance Abuse Needs of Adult Offenders. (3 Credits)**

A. Formerly: COR 320. Cross-listed as COR 413. Examines etiology and effects of substance abuse/ mental health problems of adult offenders. Describes intervention strategies. Credit will not be awarded to students who have credit for COR 413 or COR 320.

**CRJ 422. Human Trafficking. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critically examines the global problem of human trafficking. Using a historical and comparative framework, this course reveals variation in human trafficking patterns in different regions of the world and efforts to combat human trafficking by means of prevention, protection, prosecution, and partnership.

**CRJ 423. Topical Seminar. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Intensive study of selected topics related to criminal justice. May be retaken with different topics up to 12 credit hours.

**CRJ 424. Field Experience. (3 Credits)**

A. Prerequisites: instructor and departmental approval and CRJ 101 or PLS 103 or SJS 101 or COR 201. Designed to broaden the educational experience through appropriate observational work assignments. (Intended for pre-service students in non-sworn positions.) May be retaken 1 time for 6 total credit hours.

**CRJ 426. Victimology. (3 Credits)**

(3). A. Prerequisites: Sophomore standing. This course describes and examines victimization broadly including those of crime, their treatment by the criminal justice system, their resources, rights and needs, and situating the study of victims within larger social and power structures. Credit will not be awarded to students who have credit for CRJ 406 Critical Issues in Criminal Justice or CRJ 423 Topical Seminar in Victimology.

**CRJ 430. Crime and the Economy. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines capitalism as it contributes to crime. Demonstrates how cultural aspirations and structural barriers create a criminogenic society and socioeconomic bias in criminal justice.

**CRJ 440. Pathological Gambling and Crime. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. This course examines problem gambling and its relationship to crime and criminal justice. Special attention is given law, corrections, and offending. Credit will not be awarded for both CRJ 440 Pathological Gambling and Crime and CRJ 423 Topical Seminar: Problem Gambling.

**CRJ 460. Independent Study. (1-3 Credits)**

A. Prerequisites: departmental approval and instructor approval and CRJ 101 or PLS 103 or SJS 101 or COR 201. Individual study and/or research on a problem pertaining to criminal justice. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. May be retaken for a maximum of six hours.

**CRJ 490. Senior Seminar. (3 Credits)**

A. Prerequisites: senior standing and completion of CRJ 331, CRJ 388 and at least 21 hours of CRJ coursework or departmental approval. Capstone course consisting of development and production of a senior level research paper grounded in relevant criminal justice literature. Emphasis on integration of knowledge acquired in previous courses. Credit will not be awarded for both CRJ 490 and CRJ 490W.

**CRJ 490W. Senior Seminar. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or ENG 105 or HON 102 and senior standing and completion of CRJ 331, CRJ 388 and at least 21 hours of CRJ coursework or departmental approval. Capstone course requiring the production of a senior level paper grounded in relevant criminal justice literature. Emphasis on integration of knowledge acquired in previous courses. Credit will not be awarded for both CRJ 490 and CRJ 490W.

**CRJ 540. Special Problems in Crimin Law. (3 Credits)**

Advanced study of criminal law and criminal procedure. Consideration of problems relating to the police role in the administration of criminal justice and judicial enforcement of limitations upon police practices.

**Police Studies****PLS 103. Police, Order Maintenance and Crime. (3 Credits)**

A: Overview of the role of police. The historical development of policing, police functions and bureaucratic organization are examined. Police misconduct, discretion and effectiveness receive special attention.

**PLS 216. Criminal Law. (3 Credits)**

I, II. The nature of the criminal act; the essential elements; theories of responsibility; exculpatory matters; overview of common law offenses; identification of trends in the law.

**PLS 220. Criminal Investigation. (3 Credits)**

A. Fundamental of criminal investigation, crime scene search and recording, collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up, case preparation and case management.

**PLS 315. Police Administration and Management. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critically examines the theories of motivation, leadership, and organization in the police context. Police administrative and management functions studied emphasizing personnel management and organizational change.

**PLS 316. Criminal Evidence. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of trial procedures; classification of evidence; proof; presumptions; relevance; eyewitness identification; testimonial privileges; character; hearsay; impeachment; scientific evidence; collection and preservation of evidence.

**PLS 326. Ethical Decisions and Police. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the problems of ethical philosophies, theories and law in the context of policing. Consideration is given to problems of police judgment arising from unquestioned assumptions about morality. Focuses on forms of ethical violation at the individual, group and organization levels as well as strategies for prevention and control. Credit will not be awarded for both PLS 326 and PLS 326W.

**PLS 330. Topics in Police Studies. (1-6 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examination of a contemporary issue in policing including historical perspective, societal issues, present status, and future development. The police response to a specific problem is the core of this course. Course may be taken for a maximum of six hours under different headings.

**PLS 349. Applied Learning in Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349A. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349B. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349C. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349D. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349E. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349F. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349G. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349H. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 375. Terrorism/ Counterterrorism. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A study of domestic, foreign, transnational and state terrorism. This course examines issues related to defining, preventing and combating terrorism. Various social and historical forces and events will be considered in order to contextualize specific key individuals, organizations and actions.

**PLS 380. Police in the Popular Media. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A study of the public's perception of police through popular media (music, radio, television, films, short stories and books) and how those media sources might influence policing itself.

**PLS 385. Police Related Violence. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A descriptive, theoretical and philosophical approach to violence used by the police and violence directed toward them. Psychological and sub-cultural impacts will be examined. Additional analysis associated with lethal and non-lethal violence policy and strategies are included.

**PLS 401. Multi-Culturalism and Policing. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the policing of marginalized populations and investigates the realities of these persons within policing. Specific populations can include racial and ethnic minorities, age, women, sexual minorities, persons with physical and mental disabilities, immigrant populations, veterans, and others.

**PLS 403. Homicide. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Explore current theoretical, philosophical and empirical literature associated with homicide. Content includes descriptive, theoretical, empirical, and practical explanations of criminal homicide patterns. Included will be an examination of death investigation systems and police responses.

**PLS 408. Policing and Technology. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the current realities of cyber crime and the official police response. Consideration will be given to legal issues, civil liberties, police deviance and the sociopolitical impacts of technology.

**PLS 410. The police and Community. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines relationships between the police and community that address crime and quality of life problems. Community is examined as a geographical space made of multiple and diverse publics sometimes requiring different strategies and attention. A distinction is drawn between public relations and police community partnerships.

**PLS 414. Social Forces and Policing Society. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the history and evolution of policing in the United States with an emphasis on the political, social, cultural, legal and organizational forces that have molded that history. The roles and functions of police in America are examined in detail within the context of race, class and gender.

**PLS 415. Contemporary Police Strategies. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 102 or departmental approval. Review of contemporary police issues, programs, and strategies. Detailed analysis and evaluation of police practices, including impact on the relationship between the police and the community. Assessment of police reform measures and accountability mechanism.

**PLS 416. Criminal Procedure. (3 Credits)**

A. Prerequisite: PLS 216 and CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A detailed study of the laws of arrest (including the use of force), search and seizure, emphasizing the constitutional basis, historical development, statutes, and recent court decisions. Credit will not be awarded for PLS 416 and 416W.

**PLS 420. Surveillance & Society. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the nexus of surveillance, policing, and society. The course explores the role of states, corporations and individuals in monitoring and policing of bodies, populations, property and information. Consideration is given to historical and contemporary dynamics of surveillance: socio-technical assemblages, risk and security discourses, institutional blurring, inequalities and civil liberties.

**Social Justice Studies****SJS 101. Understanding Social Justice and Human Struggle. (3 Credits)**

(3) A. Course explores the concepts of justice, conflict and social change and examines the way in which political, economic, media, education, and other institutions create challenges for justice. It also examines efforts to resist existing structural and institutional arrangements and encourage social change to better meet human needs.

**SJS 250S. Service Learning in Social Justice Studies. (3 Credits)**

A. Prerequisite: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Students will engage in classroom and service activities to explore, critique, and apply the fundamental concepts of justice, conflict, and social change. Through experiential learning and reflective writing, students will begin integrating ideas and perspectives, formulating personal ideologies, and developing an enhanced sense of civic responsibility.

**SJS 301. Theories of Social Justice. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines social theories of justice, conflict and social change. This includes engagement with Marxist, Postcolonial, Postmodern, Poststructuralist, Critical Race, Feminist, and Queer theories. As the SJS major is dedicated to foundations in and accountability to grassroots knowledge and power, this course will consistently locate theory in concrete examples. Credit will not be awarded for both SJS 301 and SJS 301W.

**SJS 313. Mobilizing for Social Justice. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines the broad concept of social change through explorations of different social movements, individual actors, and various policies. The course considers strategies for change including activism, advocacy, assistance, and community organizing and looks at change on a continuum of levels, from grassroots campaigns to international diplomacy and policy work.

**SJS 322. Social Justice and Media. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines the cultural, economic, and political dynamics of struggles for social justice through a mediated lens. Although the media provides useful information helping us understand conflict within society, it also creates the context that influences audience perceptions of people/ events. This social construction influences how we perceive equality, justice, and fairness.

**SJS 325. Social Justice and Film. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines issues of justice, conflict, and social change through the lens of documentary and popular films and videos. Students are required to view, analyze, discuss, and critique themes and lessons garnered through their viewing experiences and assess how their experiences contribute to their understanding of justice, conflict, and social change.

**SJS 396. Researching and Writing for Change. (3 Credits)**

A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines the mutual importance and intertwined nature of social research and writing in struggles for social change and justice. The course will consider the importance of quantitative and qualitative research and diverse writing formats such as academic scholarship, journalism, polemics, cultural critique, advocacy, and grant writing in addressing injustice and conflict.

**SJS 400. Feminist Theory and Practice. (3 Credits)**

Cross-listed with WGS 400. Prerequisite: WGS 201 or SJS 101 or departmental approval. Examines intersectional development of feminist theory and its implications for continuing feminist scholarship. Includes related research project in student's major. Usually offered in the fall semester. Credit will not be awarded for both SJS 400 and WGS 400.

**SJS 401. Conflict, Resistance, and Nonviolent Struggle. (3 Credits)**

A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Course examines various responses to conflict and focuses on the use of nonviolent strategies as a means to overcome oppression. Examples of nonviolent struggle around the world are assessed and students are required to complete a field experience where they consider the application of effective nonviolent strategies.

**SJS 423. Topical Seminar\_\_\_\_. (3 Credits)**

Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Intensive study of selected topics related to social justice. May be retaken with different topics.

**SJS 450S. Learning Through Civic Engagement. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Working collaboratively with faculty, peers, and/or community representatives, students will analyze a social problem. They will enhance competencies essential to the helping, advocacy, community organization and activist roles necessary for social change. Students will prepare written and oral presentations that reflect their understanding of justice, conflict, and social change.

**SJS 467. States of Violence. (3 Credits)**

A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines the relations among state regimes and their application of violence in historical and contemporary contexts. Consideration will be given to the ways state institutions such as the military, police, prisons, and welfare often exercise violence and threats thereof in struggles over social justice. Alternatives to state violence will be discussed.

**SJS 470. Critical Carceral Studies. (3 Credits)**

A. Pre-Requisites: SJS 101 or CRJ 101 or PLS 103 or COR 211 or departmental approval. Examines the historical, theoretical, and political development of "carcerality", including technologies of punishment, coercion, surveillance, and control. This class examines the rise of prison industrial complex in the United States and its effects on oppressed communities.

**SJS 480. Ethnography for Social Change. (3 Credits)**

A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. An advanced methods class, this course examines the use of ethnography to achieve greater understandings of, and contributions toward, social change. Readings may include studies of power and resistance in Appalachia, the homeless in San Francisco, the use of state violence in the repression of dissent, and other important works.

**SJS 490. Identity, Culture, and Power. (3 Credits)**

(3) A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines culture as a contested site of power relations. Looking at media, economics, education, law and other areas of cultural (re)production, this class explores the diverse and even clandestine ways that power operates and that subordinate populations resist.

# Correctional Intervention Strategies, Certificate

This certificate includes 9 hours of required courses and 9 hours of electives and is available via online and on ground delivery modalities. The certificate explores adult corrections in the United States. Students will examine the foundations of modern community and institutional-based corrections, as well as contemporary issues faced by employees and persons under correctional supervision. Students will study important topics such as evidence-based practices in correctional rehabilitation and best practice models for offender reentry.

## Program Requirements

CIP Code: 43.0102

Code	Title	Hours
<b>Major Requirements</b>		
Select three of the following courses:		9
COR 201	Introduction to Corrections	

or CRJ 204	Foundations of Corrections	
COR 302	Living and Working in Prison	
or CRJ 302	Living and Working in Prison	
COR 303	The Offender in the Community	
or CRJ 303	Community Corrections	
COR 360	Rehabilitation Strategies for Adult and Juvenile Offenders	
or CRJ 360	Rehabilitation Strategies for Adult and Juvenile Offenders	
<i>Electives</i>		
Select three of the following courses:		9
COR 323	Legal Issues in Adult Corrections	
COR 340	Correctional and Juvenile Justice Administration	
COR 410	Female Offenders	
COR 412	Exploring the Death Penalty	
or CRJ 411	Capital Punishment in the U.S.	
COR 413	Addressing Mental Health and Substance Abuse Needs of Adult Offenders	
or CRJ 413	Addressing Mental Health and Substance Abuse Needs of Adult Offenders	
COR 420	Diversity in Corrections	
CRJ 424	Field Experience	
PLS 349	Applied Learning in Police Administration	
SJS 470	Critical Carceral Studies	
<b>Total Hours</b>		<b>18</b>

# Corrections and Juvenile Justice Studies, Bachelor of Science (B.S.)

## Online Course Work

The major requirements for the Bachelor of Science B.S. degree are to be completed online. Coursework for university certificates (see below) may be completed online or on ground. For first-time freshmen, admission requirements include a high school GPA of 2.5 or greater and a 20 composite ACT or 950 SAT math and verbal combined score. If a student is below in an area they will be directed to complete a college readiness course at time of registration. Admission requirements for transfer students include a GPA of 2.0 on a 4.0 scale and good academic and financial standing at previous institution. The University requirement that B.S. students must earn a minimum of 30 of the last 36 hours through ECU is waived for students pursuing the B.S. major requirements online. However, a minimum of 32 hours must be earned through ECU.

## Program Requirements

CIP Code: 43.0102

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3

<b>Element 3</b>	
A: Arts (p. 63)	3
B: Humanities (p. 63)	3
<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Corrections and Juvenile Justice Studies majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
COR 375	Applied Skills Practicum	
	or CRJ 490 Senior Seminar	
	or CRJ 490W Senior Seminar	
<b>Major Requirements</b>		
<i>Core Courses</i>		
COR 201	Introduction to Corrections	3
COR 311	The Juvenile Justice System	3
COR 360	Rehabilitation Strategies for Adult and Juvenile Offenders	3
CRJ 313	Criminal Justice Ethics	3
	or CRJ 313S Criminal Justice Ethics	
CRJ 331	Criminological Theory	3
CRJ 388	Research Methods	3
CRJ 400	Criminal Justice Statistics	3
<i>COR Electives</i>		
Choose from 18 hours of COR electives of the following:		18
CRJ 490	Senior Seminar	
	or CRJ 490W Senior Seminar	
Any upper division COR elective in consultation with major advisor		
<i>Supporting Course Requirements</i>		
Choose from two of the following in consultation with major advisor:		6
Any upper division CRJ course		
HLS 101	Introduction to Homeland Security	
HLS 201		
HLS 321		

HLS 341		
PLS 103	Police, Order Maintenance and Crime	
PLS 216	Criminal Law	
PLS 316	Criminal Evidence	
PLS 380	Police in the Popular Media	
PLS 390		
PLS 415	Contemporary Police Strategies	
PSY 308	Abnormal Psychology	
PSY 314	Adolescent and Adult Development	
Choose from one of the following:		
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
PSY 200W	Introduction to Psychology: Writing Intensive (Element 5B) <sup>G</sup>	
<i>Free Electives</i>		
Choose from 38 hours of free electives		38
<b>Total Hours</b>		<b>120</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

Majors must have a minimum grade point average of at least 2.0 across major core, option, and elective course requirements in order to graduate.

## Criminal Justice, Bachelor of Science (B.S.)

### Program Requirements

CIP Code: 43.0103

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Criminal Justice majors will fulfill ACCT with one of the following. (Credit hours are incorporated into major requirements below.)		
CRJ 313S	Criminal Justice Ethics	
CRJ 424	Field Experience	
CRJ 490	Senior Seminar	
HON 420	Thesis Project and Seminar	
PLS 349	Applied Learning in Police Administration (or A-N)	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CRJ 101	Introduction to Criminal Justice	3
CRJ 313	Criminal Justice Ethics	3
or CRJ 313S	Criminal Justice Ethics	
CRJ 331	Criminological Theory	3
CRJ 388	Research Methods	3
CRJ 400	Criminal Justice Statistics	3
<i>CRJ Electives</i>		
Choose from 27 hours, at least one course from each area, of the following three areas: (12 hours must be upper division)		27
<b>Corrections:</b>		
CRJ 204	Foundations of Corrections	
CRJ 302	Living and Working in Prison	
CRJ 303	Community Corrections	
CRJ 360	Rehabilitation Strategies for Adult and Juvenile Offenders	
<b>Law and Juvenile Justice:</b>		
PLS 216	Criminal Law	
PLS 316	Criminal Evidence	
PLS 416	Criminal Procedure	
CRJ 312		
CRJ 314	Law and Society	
CRJ 311	Juvenile Justice System	
<b>Policing:</b>		
PLS 103	Police, Order Maintenance and Crime	
PLS 340		
PLS 401	Multi-Culturalism and Policing	
PLS 411		
PLS 420	Surveillance & Society	
<i>Supporting Course Requirements</i>		
Choose from nine hours of at least two of the following areas in consultation with major advisor: AFA, APP, ENV, HLS, POL, PSY, SJS, SOC, or WGS		9

*Free Electives or Minor*

Choose from 32 hours of free electives or minor	32
Majors are recommended to include three hrs (200 level or above) of Foreign language or American Sign Language (ASL) in consultation with their major advisor (Element 6) <sup>G</sup>	
<b>Total Hours</b>	<b>120</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Criminal Justice, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
CRJ 101	Introduction to Criminal Justice	3
CRJ 313	Criminal Justice Ethics	3
CRJ 331	Criminological Theory	3
CRJ 388	Research Methods	3
CRJ 400	Criminal Justice Statistics	3
<b>Electives</b>		
Choose one upper level CRJ elective		3
<b>Total Hours</b>		<b>18</b>

## Juvenile Justice, Certificate

This certificate includes 9 hours of required courses and 9 hours of electives and is available via online and on ground delivery modalities. The certificate allows students to explore critical issues associated with juvenile justice and related youth services in the United States. Students will explore the history of the juvenile justice system, the intricacies of the modern system, and issues faced by juveniles and employees in the system. Courses in the curriculum cover important topics such as the role and rules of juvenile courts, risk factors for delinquency, and evidence-based delinquency prevention and rehabilitation programs.

### Program Requirements

CIP Code: 44.0702

Code	Title	Hours
<b>Major Requirements</b>		
Select three of the following courses:		9
COR 311	The Juvenile Justice System	
or CRJ 311	Juvenile Justice System	
COR 321	Delinquency Interventions	
COR 322	School- Based Interventions for At-Risk Youth	
COR 422	Legal Issues in Juvenile Justice	
<b>Electives</b>		
Select three of the following courses:		9
COR 322	School- Based Interventions for At-Risk Youth	
COR 340	Correctional and Juvenile Justice Administration	
COR 360	Rehabilitation Strategies for Adult and Juvenile Offenders	
or CRJ 360	Rehabilitation Strategies for Adult and Juvenile Offenders	

COR 410	Female Offenders	
COR 420	Diversity in Corrections	
CRJ 412	Gender, Class, and Race	
CRJ 424	Field Experience	
PLS 349	Applied Learning in Police Administration	
CDF 342	Child and Adolescent Development	
or PSY 314	Adolescent and Adult Development	
SWK 358	Child Abuse and Neglect	
<b>Total Hours</b>		<b>18</b>

## Police Studies, Associate of Arts (A.A.)

### Program Requirements

CIP Code: 43.0107

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
Standard General Education program (Elements 1-6 inclusive, per Section Four of this Catalog). Students should refer to their Degree Works audit for General Education course selections. Foreign language (200 level or above) or American Sign Language (ASL), selected in consultation with major advisor, is encouraged as a selection to fulfill General Education Element 6.		
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
<b>Major Requirements</b>		
<i>Core Courses</i>		

CRJ 101	Introduction to Criminal Justice	3
PLS 103	Police, Order Maintenance and Crime	3
PLS 326	Ethical Decisions and Police	3
PLS 414	Social Forces and Policing Society	3
PLS 415	Contemporary Police Strategies	3
<i>PLS Electives</i>		
Choose from 12 hours of PLS, CRJ or COR electives		12
<b>Total Hours</b>		<b>64</b>

## Police Studies, Bachelor of Science (B.S.)

### Program Requirements

CIP Code: 43.0107

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Police Studies majors will fulfill ACCT with one of the following. (Credit hours are incorporated into major requirements below.)		
CRJ 313S	Criminal Justice Ethics	
CRJ 424	Field Experience	

CRJ 490	Senior Seminar
CRJ 490W	Senior Seminar
HON 420	Thesis Project and Seminar
PLS 349	Applied Learning in Police Administration (or A-N)

**Major Requirements***Core Courses*

CRJ 101	Introduction to Criminal Justice	3
CRJ 331	Criminological Theory	3
CRJ 388	Research Methods	3
CRJ 400	Criminal Justice Statistics	3
PLS 103	Police, Order Maintenance and Crime	3
PLS 326	Ethical Decisions and Police	3
PLS 414	Social Forces and Policing Society	3
PLS 415	Contemporary Police Strategies	3

*Major Electives*

Choose from 24 hours of PLS, CRJ or COR electives (12 hours must be upper division courses) 24

*Supporting Electives*

Choose from six-nine hours of the following: 6-9

APS 210	
EMC 102	First Response Emergency Care
or EMC 110	Introduction to Emergency Medical Care
FOR 301	Introduction to Forensic Science
FSE 250	Introduction to Explosion Investigations and Bombings
TRS 332	Traffic Crash Causation and Investigation
A combination to include 3 hrs (200 level or above) of Foreign language or American Sign Language (ASL) in consultation with major advisor (Element 6) <sup>G</sup>	

*Free Electives*

Choose from 29 hours of free electives 29

**Total Hours** 120-123

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Police Studies, Minor

### Program Requirements

A student may minor in Police Studies by completing a minimum of 18 semester hours of the following:

Code	Title	Hours
<b>Required Courses</b>		
CRJ 101	Introduction to Criminal Justice	3
PLS 103	Police, Order Maintenance and Crime	3
PLS 414	Social Forces and Policing Society	3
Choose from nine hours of PLS upper level electives		9
<b>Total Hours</b>		<b>18</b>

A grade of "C" or higher must be earned in each CRJ or PLS course for credit toward a PLS minor.

## Social Justice, Minor

Students majoring in police studies or criminal justice may not minor in social justice.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
CRJ 101	Introduction to Criminal Justice	3
CRJ 345		3
or SOC 400	Race and Ethnicity	
CRJ 325	White Collar/Crimes of the Powerful	3
PLS 390		3
or CRJ 401	Organized Crime	
CRJ 406	Critical Issues in Criminal Justice	3
SOC 235	Social Problems	3
or POL 464	Law and Politics of Civil Liberties	
SOC 313		3
or SOC 375	Sociology of Deviance	
<b>Total Hours</b>		<b>21</b>

## School of Safety, Security & Emergency Management

Dr. William Hicks, Chair

Dr. Tom Schneid, Chair

### Faculty

B. Brown, C. Combs, J.P. Conkwright, R. Dotson, S. Dunlap, D. Fifer, C. Foster, G. Gorbett, P. Grant, W. Hicks, S. Kozhumal, J. McGlown, T. Rawlins, J. Reichert, T. Schneid, R. Shaw, B. Simpkins, M. Snodgrass, B. Spurlock, D. Stumbo, W. Sullivan, H. Wilson#Yue, and W. Young.

### College of Justice and Safety Residency Requirement

*The College of Justice, Safety and Military Science requires that students graduating with a baccalaureate degree from the School of Justice Studies, or the School of Safety, Security, and Emergency Management, must earn a minimum of 18 upper division credit hours in the home subject of their major (excluding co-op and applied learning), as specified by Degree Works.*

### Bachelor's

- Emergency Medical Care, Bachelor of Science with a Concentration in Emergency Services Administration (B.S.) (p. 274)
- Emergency Medical Care, Bachelor of Science with a Concentration in Paramedic/Science (B.S.) (p. 276)
- Emergency Medical Care, Bachelor of Science with a Concentration in Paramedical Clinic/FSE (B.S.) (p. 277)
- Fire Protection Administration, Bachelor of Science (B.S.) (p. 278)
- Fire Protection and Safety Engineering Technology, Bachelor of Science (B.S.) (p. 279)
- Fire, Arson, and Explosion Investigation, Bachelor of Science (B.S.) (p. 280)

- Homeland Security, Bachelor of Science (B.S.) (p. 281)
- Occupational Safety, Bachelor of Science (B.S.) (p. 284)

## Associate's

- NREMT-P to Associate of Paramedicine (ASP) Degree Program (p. 283)
- Paramedicine, Associate of Science (A.S.) (p. 285)

## Minor

- Disaster Management, Minor (p. 274)
- Emergency Medical Care, Minor (p. 278)
- Fire and Safety Engineering Technology, Minor (p. 278)
- Fire Protection Administration, Minor (p. 279)
- Fire, Arson, and Explosion Investigation, Minor (p. 281)
- Homeland Security, Minor (p. 282)
- Industrial Fire Protection, Minor (p. 283)
- Occupational Safety, Minor (p. 285)
- Social Intelligence and Leadership, Minor (p. 286)
- Traffic Safety (Non-Teaching), Minor (p. 286)

## Certificate

- Basic Emergency Medical Technician, Certificate (p. 274)
- Homeland Security, Certificate (p. 282)
- Industrial Fire Protection, Certificate (p. 282)
- Intelligence Studies, Certificate (p. 283)
- Security Management, Certificate (p. 286)
- Social Intelligence & Leadership, Certificate (p. 286)

## Courses

### Emergency Medical Care

#### EMC 102. First Response Emergency Care. (2 Credits)

I, II, A. Prerequisite or co-requisite: EMC 104. Emergency medical care techniques adhere to U.S. Department of Transportation curriculum for Emergency Medical Responder. Credit will not be awarded to students who have credit for HEA 202 or HEA 203. 2 Lec/2 Lab.

#### EMC 104. Healthcare Basic Life Support. (1 Credit)

A. Basic cardiac life support skills for healthcare student or professional in accord with peer-reviewed American Heart Association (AHA) scientific guidelines. Course completion documentation when AHA requirements met. Maximum 6 enrollments for renewal. 0.25 Lec/0.75 Lab.

#### EMC 105. Survey of Medical Terminology. (1 Credit)

A Cross-listed with CHS 105. Independent study, modular design paced by class meetings includes work roots, prefixes, suffixes, and general medical terms. Credit will not be awarded to students who have previously taken CHS 105 and MAS 200.

#### EMC 110. Introduction to Emergency Medical Care. (3 Credits)

I, II, A. Prerequisite or Corequisite: EMC 104 and EMC 110L. Prehospital basic life support concepts for entry level Emergency Medical Technician-Basic adhering to national curricula. Meets eligibility requirements for state certification and national registration cognitive examinations.

#### EMC 110L. Introduction to Emergency Medical Care Laboratory. (2 Credits)

A. Prerequisite or Corequisite: EMC 104 and EMC 110. Prehospital basic life support skills and field clinical experience for entry level Emergency Medical Technician-Basic adhering to national curricula. Meets eligibility requirements for state certification and national registration psychomotor examinations. 4 Lab.

#### EMC 115. Basic Clinical/Field Experience. (2 Credits)

I, II, A. Prerequisite: departmental approval and Certified EMT-Basic. Minimum of 64 hours supervised hospital emergency department and prehospital emergency care ambulance clinical experience. Preceptor evaluates basic life support knowledge and skills.

#### EMC 130. Human Systems of Assessment. (3 Credits)

A. Overview of human body and its systems as applied to rapid patient assessment and problem identification. Limited to certified paramedic students only.

#### EMC 200. Introduction to Prehospital Advanced Life Support. (2 Credits)

II, A. Role and responsibilities of EMT-Paramedic, components of EMS systems, medical/legal considerations, and communications in advanced and basic life support settings.

#### EMC 205. Prehospital Management of OB/GYN Emergencies. (1 Credit)

I, A. Pathophysiology and advanced level prehospital management of antepartum, parturition, postpartum, and gynecological emergencies. Assessment, care, and transportation of the neonate.

#### EMC 212. Crash Victim Auto Extrication. (1 Credit)

I, A. Survey of vehicle extrication procedures for emergency medical personnel. Adheres to U.S. Department of Transportation content and objectives. 1 Lec/1 Lab.

#### EMC 215. Prehospital Management of Behavioral Emergencies. (1 Credit)

I, A. Survey of vehicle extrication procedures for emergency medical personnel. Adheres to U.S. Department of Transportation content and objectives. 1 Lec/1 Lab.

#### EMC 225. Introduction to Pharmacology. (3 Credits)

I, II, A. Introduction to classification, nature, and uses of medications. Pharmacological agents utilized in prehospital health care setting emphasized.

#### EMC 240. Introduction to Electrocardiography. (3 Credits)

I, II, A. Cardiac anatomy, physiology, and electrophysiology related to ECG. Proficient ECG interpretation skills emphasized. EMC 270 EMTP: Theory/Practicum I.

#### EMC 300. Emergency Operations, and Behavioral Crisis. (3 Credits)

Introduction to the emergency medical field. Topics include legal and ethical issues; infection control; disaster preparedness; and recognition and care of patients with behavioral emergencies. Credit will not be awarded to students who have credit for EMC 200 or EMC 215.

#### EMC 303. Introduction to Cardiology. (3 Credits)

Introduction to prehospital electrocardiography and use and classification of pharmacological agents. Credit not awarded to students who have received credit for EMC 225 and EMC 240.

#### EMC 305. Prehospital Management of OB/GYN/Pediatric Emergency. (3 Credits)

Pathophysiology and advanced level assessment and management of OB, GYN, and pediatric patients. Credit will not be awarded to students who have received credit for EMC 205.

**EMC 310. Advanced Cardiology. (3 Credits)**

(2) II, A. Prerequisites and/or co-requisites: EMC 303 and EMC 335; or departmental approval. Advanced diagnostics, interventions, and management of cardiovascular emergencies to include cardiac resuscitation adhering to the standards of the American Heart Association. AHA ACLS Provider required for course completion. 2 Lec/2 Lab.

**EMC 315. Pediatric Adv Life Support. (1 Credit)**

A. Assessment, recognition, and intervention for infant or child with cardiopulmonary arrest or shock. Adheres to American Heart Association and Academy of Pediatrics cognitive and performance standards. AHA PALS Provider evidence of course completion available.

**EMC 320. Adv Life Support: Trauma. (3 Credits)**

II, A. Prerequisites: EMC 115, 240, BIO 171, 301. Prehospital management of complex patients with multiple systems failure secondary to trauma related pathologies.

**EMC 335. Medical Emergencies I. (3 Credits)**

I, A. Prerequisites: EMC 240, BIO 171, 301, EMC 115, 225, and department approval. Pathophysiology and advanced level prehospital management of emergencies of the respiratory, cardiovascular, endocrine, nervous, gastrointestinal, genitourinary, and reproductive systems.

**EMC 336. Case Management. (1 Credit)**

I, II, A. Prerequisite or Co-requisite: EMC335 and 342 or departmental approval. Hands-on advanced case management of medical and trauma emergencies using low and high-fidelity patient care simulation.

**EMC 340. Advanced Life Support: Medical Emergencies. (3 Credits)**

II, A. Prerequisite: EMC 335. Pathophysiology and advanced level prehospital management of emergencies involving anaphylaxis, toxicology, alcoholism, drug abuse, infectious diseases, environmental hazards, and pediatric and geriatric patients.

**EMC 341. Case Management. (1 Credit)**

I, II, A. Co-requisite: EMC 340 and 352 or departmental approval. Advanced case management of medical and trauma emergencies requiring critical thinking, oral critical thinking, practical and didactic assessment.

**EMC 342. Advanced Clinical I. (3 Credits)**

I, A. Corequisite: EMC 335. Integration of basic and advanced life support concepts and psychomotor skills in patient care situations developed through supervised assignments in various clinical settings and through simulation.

**EMC 342L. Advanced Clinical I Lab. (0 Credits)**

Integration of basic and advanced life support concepts for psychomotor skills in patient care situations developed through supervised assignments in various clinical settings and simulation.

**EMC 349. Co-op or Appl Lrn: Em Med Care. (0.5-8 Credits)**

I, II, A. Work in placements related to academic studies. A minimum of 80 hours of employment is required for each semester credit hour.

**EMC 349A. Cooperative Study: Emergency Medical Care. (0.5-8 Credits)****EMC 349B. Cooperative Study: Emergency Medical Care. (0.5-8 Credits)**

Work in placements related to academic studies.

**EMC 352. Advanced Clinical II. (3 Credits)**

II, A. Prerequisite: EMC 342. Corequisites: EMC 320, 340 and 352L. Hospital assignments allow continued development and application of cognitive and psychomotor skills in critical situations. Autonomous decision-making skills developed under supervision through increased participation in patient care.

**EMC 352L. Advanced Clinical II Lab. (0 Credits)**

(0) Pre-requisite: EMC 342. Co-requisite: EMC 340 and EMC 352. Clinical assignments allow continued development and application of cognitive and psychomotor skills in critical situations. Autonomous decision-making and critical thinking skills in clinical situations developed under supervision through increased participation in patient care.

**EMC 360. Advanced Field Internship. (2 Credits)**

A. Prerequisites: EMC 205, 212, 215, 310, 320, and 352. Minimum 120 hours supervised experience on paramedic ambulance. Progresses from advanced emergency care delivery observation to beginning team member responsibilities.

**EMC 362. Advanced Field Internship II. (4 Credits)**

A. Prerequisite or Corequisite: EMC 200, 205, 215, and 360. Continuation of supervised experience on advanced life support ambulance. Assumes team member role with progression to team leader. Minimum advanced internship experience requires 75 ALS Contacts.

**EMC 380. Advanced Prehospital Theory Medical. (4 Credits)**

A. Prerequisites: Kentucky Certified EMT-Paramedic and admission to EMC major. Foundation course for paramedic students which focuses on pathophysiological basis for prehospital interventions and management. Includes in-depth history and assessment skills.

**EMC 382. Adv Prehospital Theory-Trauma. (4 Credits)**

A. Prerequisites: Kentucky Certified EMT-Paramedic and admission to EMC major. Foundation course for paramedic students which focuses on pathophysiological basis for prehospital interventions and management in trauma settings. Includes in-depth history and assessment skills.

**EMC 389. Topical Seminar.\_\_\_\_\_. (1-3 Credits)**

I, II, A. Prerequisite or Co-requisite: EMC 320, 335 and 342 or departmental approval. Development and presentation of research in contemporary methods, techniques, practices, and devices in the field. May be retaken under different topics to a maximum of 12 hours.

**EMC 400. Emergency Care Systems Management. (3 Credits)**

I, II, A. Prerequisites: ENG 300 or FSE 200. EMS systems design and typical agency divisions, including operations, communications, training and customer service. Projects focus on system design, training and efficiency.

**EMC 420. Emergency Services Design and Budget. (3 Credits)**

A. Prerequisite or Co-requisite: ENG 300 (or FSE 200) or departmental approval. Identify and compare issues with staffing, operations, communications, training and mission with various EMS systems models. Develop and revise sample budgets for EMS systems.

**EMC 430. Legal and Ethical Aspects of Emergency Services. (3 Credits)**

A. Prerequisite: departmental approval. Examine and apply moral and ethical decisions made in emergency services. Issues of diversity, expanded health care settings, aging population, and others will be explored.

**EMC 430W. Legal and Ethical Aspects of Emergency Services. (3 Credits)**

Prerequisite: departmental approval. Examine and apply moral and ethical decisions made in emergency services. Issues of diversity, expanded health care settings, aging population, and others will be explored. Credit will not be awarded for both EMC 430W and EMC 430.

**EMC 440. EMS Instruction. (3 Credits)**

A. Prerequisite: departmental approval. Introduction to the principles involved in EMS adult learning. Roles issues, domains of learning, and instruction models will be emphasized. Organization and planning for the EMS community including diverse learning populations and regulations.

**EMC 450. Disaster Medical Operations. (3 Credits)**

A. Emergency medical communications, cooperation and support in response to a natural or human-made disaster. Planning, delivery and recovery of medical systems by various local, state and federal agencies and the private sector.

**EMC 480. Topics in Emergency Medicine. (3 Credits)**

I, II, A. Investigation into the pathophysiology of traumatic and medical emergencies which applies to the latest trends in recognition and management.

**EMC 489. Introduction to Research Methods. (3 Credits)**

A. Prerequisites: ENG 300 or FSE 300, and FSE 200. Introduction to basic research methods for professionals in emergency services and public agency practitioners and educators. This includes foundational principles of statistical analyses and application, as well as human subjects protections.

**Fire and Safety Engineering****FSE 101. Fire Prevention. (3 Credits)**

A. An introduction to fire and safety related codes; fire prevention methods; mechanical systems; and engineering solutions for hazards. An in-depth look at the Life Safety Code, the function and testing of fire related building components.

**FSE 120. Fire Behavior and Combustion. (3 Credits)**

A. Introduction to the chemistry and dynamics of fire; including basic terminology and concepts that are applied to the physical and chemical properties of the development and spread of fire in a structure; hazardous materials and the Computer Fire Analysis.

**FSE 201. Building Construction. (3 Credits)**

A. A review of the analysis of building construction methods and terminology. A systems approach to designing building fire safety; the Life Safety Code; the function of and testing of rated building components, evaluating plans for code compliance.

**FSE 201S. Building Construction. (3 Credits)**

A. A review of the analysis of building construction methods and terminology using a service learning approach. A systems approach to designing building fire safety; the Life Safety Code; the function of and testing of building components, evaluating plans for code compliance. Credit will not be awarded for both FSE 201 and FSE 201S.

**FSE 221. Fire Detection and Suppression Systems. (3 Credits)**

A. Prerequisites: FSE 101, FSE 120. Introduction to fire detection, protection, control systems and extinguishment. Fixed and portable systems of the following types will be studied: automatic sprinklers, standpipes, dry chemical, foam, halogenated agents, fire alarm systems and diction.

**FSE 223. Fire and Emergency Scene Operations. (3 Credits)**

A. Prerequisite: FSE 201 or FSE 201S. Principles of Incident Management including emergency scene decisions, strategies, and tactics. Utilizing emergency control resources such as personnel, apparatus, and equipment.

**FSE 224. Human Behavior In Fire. (3 Credits)**

Prerequisites: FSE 101 and FSE 120. Examine current and past research on human behavior, systems models, life safety education and building design to determine interactions emergency situations. Develop a best practice building life safety system.

**FSE 225. Legal Aspects of Fire Protection. (3 Credits)**

A. A study of legislative and legal decisions relating to personnel practices, employee safety, and public protection. Emphasizes the legal responsibilities, liabilities, and authority of the fire service practitioner.

**FSE 230. Fire Prevention Organization and Management. (3 Credits)**

A. Prerequisite: FSE 101. An introduction to management issues related to fire prevention systems. Overview of the requirements for fire prevention codes, managing inspections, relations with public and officials and implementation of fire education programs.

**FSE 250. Introduction to Explosion Investigations and Bombings. (3 Credits)**

A. Introduction to explosion investigations and bombings. Topics include a historical overview of terrorism statutes, sources of information, the federal role in explosion investigation, explosives and improvised explosive devices.

**FSE 260. Proving Criminal Acts. (3 Credits)**

A study of crimes and the methodical steps in the investigation and proving of criminal acts. Explore defenses/legal remedies to enable the student to understand the obligations of managing an investigation.

**FSE 280. Constitutional Criminal Procedure. (3 Credits)**

Examines the legal implications of obtaining evidence directly from the suspect. Fourth, Fifth, and Sixth Amendments, and rules of evidence are discussed as they relate to the investigation of criminal acts.

**FSE 300W. Technical Report Writing for Emergency Services. (3 Credits)**

A. Prerequisite: ENG 102. Develop oral and written communication skills specific to the public emergency service sector's needs. Focusing on the technical aspects involved in supporting public initiatives operating within the legal system and learning the specific requirements for submitting documentation to various technical committees. Credit will not be awarded to students who have credit for FSE 300 and 300W.

**FSE 305. Hazardous Materials. (3 Credits)**

A. Prerequisite: FSE 120. Study of hazardous material problems in transportation, storage, and use. Chemical properties relating to specific reactions, engineering controls, and control in an emergency situation. Emphasis on the role of pre-emergency planning, combating, coordinating, and controlling a hazardous materials incident. Credit will not be awarded for both FSE 305 and OSH 305.

**FSE 310. WMD/Hazardous Materials. (3 Credits)**

A. Study of different Weapons of Mass Destruction (WMD) materials, deployment, and use. Evaluation of hazardous materials, usage, storage, and transportation. Preventing and controlling WMD/Hazardous Materials incidents.

**FSE 320. Principles of Emergency Services. (3 Credits)**

A. An overview of organizational and management practices in the fire and safety fields. Emphasis on supervision and leadership styles, motivation, morale, and organizational behavior.

**FSE 322. Water-Based Fire Protection Systems Design. (3 Credits)**

A. Prerequisite: FSE 221. Analysis and evaluation of specific code requirements related to the design, inspection, testing and maintenance of water-based fire protection systems. Design projects will be included.

**FSE 330. Principles of Criminal Investigation. (3 Credits)**

Prerequisites: FSE 300 or FSE 300W, FSE 260, and FSE 280. A detailed study of the investigative procedure as it applies to fire, arson, explosion and other personal property crimes.

**FSE 349. Applied Learning in Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 and OSH 349.

**FSE 349A. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349B. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349C. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349D. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349E. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349F. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349G. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349H. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349J. Co-op or Appl Lrn: Fire/Safety. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 350. Fire Arson and Explosion Investigation. (3 Credits)**

A. Prerequisite: FSE 120. An in depth study in the analysis of fire, arson, and explosion scenes. Emphasis will be placed on the principles and techniques of scene preservation and analysis, management of investigative functions, documentation of the scene, and determination of the cause and origin of fire.

**FSE 355. Fire Dynamics. (3 Credits)**

A. Prerequisites: CHE 101 or higher, FSE 120, and MAT 114. An introduction to fire-related measurement techniques, advanced fire and combustion concepts and associated terminology. This course includes basic numerical methods for understanding fire dynamics.

**FSE 360. Fire Protection Hydraulics and Water Supply. (3 Credits)**

A. Prerequisites: FSE 120 and MAT 107 or higher. A study of water at rest and in motion, Bernoulli's and Pascal's theorems; water distribution systems, velocity, friction loss, pump and nozzle pressures required for fire protection.

**FSE 365. Instructional Methodology for Emergency Service. (3 Credits)**

A. Course provides students with opportunities to develop presentation skills used in classroom instruction. Develop lesson plans, prepare audio-visual aids and props for the class. Prepare evaluation methodologies that competently assure learning objectives during delivery of presentations.

**FSE 370. Electrical and Mechanical Systems Failure Analysis. (3 Credits)**

A. Overview of design criteria for electrical and mechanical systems and components relative to fire safety via laboratory experiments, exemplar components and photographs that depict system and component failures that result in fire. Learning opportunities include engaging in destructive and nondestructive analysis of components and systems.

**FSE 375. Emergency Services Resource Management. (3 Credits)**

A. Introduction to management issues related to obtaining and accounting for resources. Included are financial management processes, acquisition strategies, strategies for maintenance of effort and resource prioritization, resource replacement planning and processes to audit program success.

**FSE 380. Failure Analysis. (3 Credits)**

A. Prerequisite: FSE 370. An in-depth study of fire and arson investigations. Emphasis will be placed on the principles and techniques of scene preservation, failure analysis, report writing, and determination of cause and origin.

**FSE 400. Advanced Emergency Services. (3 Credits)**

A. Prerequisites: FSE 300 or FSE 300W and 320. A study of environmental management including the identification and analysis of key managerial issues confronting contemporary fire services managers. Application in current methods and planning, organizing, developing and evaluating public fire/emergency services organizations.

**FSE 425. Disaster & Community Fire Defense Planning. (3 Credits)**

A. Prerequisite: FSE 300 or FSE 300W. Overview of the ever changing demographics of the departmental jurisdictions and response during community service master planning, identifying hazards then assessing risks associated with those hazards. Analysis of potential disaster and recovery methods.

**FSE 445. Advanced Structural Fire Protection. (3 Credits)**

Prerequisite: FSE 355 (C). Examines principles involved in structural fire protection: behavior of materials and design considerations for each material in regards to a structure's design under fire attack and resistive protection methods.

**FSE 450. Advanced Explosion and Bombing Investigation. (3 Credits)**

A. Prerequisite: FSE 250 and FSE 380. An in-depth study of explosion scene investigation. Emphasis will be placed on the principles and techniques of scene preservation analysis, management of investigative functions, documentation of scene, and determination of the cause of explosions.

**FSE 480. Industrial Fire Safety. (3 Credits)**

Prerequisites: FSE 101, FSE 120 and FSE 360. Fire scenario analyses for industrial installations using test data, loss experience and simplified theoretical modeling focusing on warehousing, storage of flammable liquids and safety of electrical equipment and computers.

**FSE 481. Fire Protection Design. (3 Credits)**

Prerequisite: FSE 445. Comprehensive project emphasizing a team approach to the design process. Problem formulation; project management; drawings and specifications; cost estimating; and various project components. Engineering and professional ethics.

**FSE 489. Topical Seminar. (1-3 Credits)**

A. Prerequisite: Departmental approval. Development and presentation of research in contemporary methods, techniques, and devices in the field. May be retaken under different topics to a maximum of 12 hours.

**FSE 490. Fire/Safety Research & Evaluat. (3 Credits)**

A. Prerequisite: senior standing. Development of competency relating to concepts of fire and safety research analysis. Each student develops a research design and carries out a study project. Individual studies are culminated with project paper and presentation.

**FSE 495. Fire Arson and Explosion Case Preparation. (3 Credits)**

A. Prerequisite: FSE 450. Preparation of the fire, arson, and explosion case for trial, including preparation of demonstrative evidence, scene documentation for presentation, rules of evidence, case review and analysis, and testimony.

**FSE 496. Fire Investigation Case Preparation. (3 Credits)**

Prerequisite: FSE 450. Preparation of the fire and arson case for trial, including preparation of demonstrative evidence, scene documentation for presentation, and testimony.

**FSE 498. Independent Study. (1-3 Credits)**

A. Prerequisite: Departmental approval. Individual reading and research on a problem or area within the field of Fire and Safety, after student consultation with the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours providing the project title differs.

**FSE 499. Practicum. (1-12 Credits)**

A. Prerequisite: departmental approval. Supervised field observation, research, and/or experience.

**Homeland Security****HLS 101. Introduction to Homeland Security. (3 Credits)**

A. Principles and practices associated with the emerging discipline of homeland security. Policies, directives, national plans, and legislation that shape and define the ongoing evolution of homeland security. Key issues including civil liberties and diversity. Relationship to public safety, private security, and national security.

**HLS 210. Cyber and Physical Security. (3 Credits)**

A. Principles of cyber and physical design and application to include assessments and subsequent identification of countermeasures as well as policy development and implementation in an effort to safeguard life and critical infrastructure. Credit will not be awarded for both APS 210 and SEC 210.

**HLS 260. Disaster Preparedness & Response. (3 Credits)**

A. Examines disaster preparedness and response context, concepts, theories, principles, programs and requirements. Students apply course concepts using case studies and real-world scenarios. Formerly HLS 451.

**HLS 280. Mis-, Dis-, and Malinformation. (3 Credits)**

A. Examines Mis-, Dis-, and Malinformation (MDM) from a homeland security perspective. Students build skills in assessing and evaluating information from social media and other information sources.

**HLS 301. Critical Infrastructure Protection. (3 Credits)**

A. Identification, prioritization, and protection of critical infrastructure including information technology, telecommunications, chemical, transportation, energy, water, medical, emergency services, postal and shipping. Impact on personal safety and economic performance.

**HLS 310. Personnel Security. (3 Credits)**

(3) A. Formerly SEC 250. Examines employee and contractor integrity through background screening, security awareness, ethics programs, and audits. Analyzes special programs to protect key personnel, employees in high risk environments and workplace violence mitigation. Credit will not be awarded to students who have credit for SEC 250.

**HLS 320. Security Management. (3 Credits)**

A. Prerequisite: Junior or Senior standing or departmental approval. Evolution and application of traditional and current theories in leading and managing corporate and government/industrial security operations. Areas covered include management, supervision and leadership of a security organization.

**HLS 349. Applied Learning in HLS. (0.5-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 349A. HLS Cooperative Study. (1-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 349B. HLS Cooperative Study. (0.5-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 349C. HLS Cooperative Study. (0.5-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 349D. HLS Cooperative Study. (0.5-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 350. Workplace Investigations. (3 Credits)**

A. Prerequisite: Junior or Senior standing or departmental approval. Overview and management of criminal, civil, administrative, and internal investigative processes in the workplace, to include interviews, reports, and ethical and legal considerations related to investigations.

**HLS 391. Risk Analysis. (3 Credits)**

A. History and process of risk analysis and management as it relates to the protection of critical assets and infrastructure. Instruction in common techniques used in both the public and private sectors.

**HLS 395. Policy and Legal Analysis. (3 Credits)**

A. Develop homeland security policy and legal research and analysis skills. Includes coverage of international and U.S. federal, state and local policy, legal and ethical issues.

**HLS 395W. Homeland Sec. Policy Analysis. (3 Credits)**

A. Prerequisites: HLS 101, HLS 210, and HLS 260; ENG 102 or 102R or HON 102 with a minimum grade of "C" or ENG 105 with a minimum grade of "B"; and HLS major or departmental approval. Develop homeland security policy and legal research and analytic skills. Includes coverage of international and U.S. federal, state and local policy and legal issues.

**HLS 400. Evolution of the U.S. Intelligence Community. (3 Credits)**

A. Evolution of the US intelligence community from the American Revolution to today.

**HLS 401. Intelligence Process. (3 Credits)**

A. Key questions facing the U.S. intelligence community and its role in homeland security, national defense, and international affairs, with a focus on policy, oversight and intelligence support. Collection, analysis, sharing and dissemination of information within and between local, state, and federal government agencies and the private sector.

**HLS 402. Counterintelligence. (3 Credits)**

A. History, structure and operations of the US counterintelligence community. Includes legal foundations of counterintelligence and critiques of recommended changes to the community.

**HLS 403. Intelligence Analysis. (3 Credits)**

(3) A. Examines processes used at local, state and federal levels to conduct intelligence analysis and develop intelligence products. Includes advanced instruction in intelligence structured analytic techniques.

**HLS 430. Terrorism and Violent Extremism. (3 Credits)**

A. Coverage of politically-motivated extremist violence in the United States. Includes discussion of definitional issues, radicalization, major attacks, current threats, and principal extremist groups and ideologies.

**HLS 435. HLS Special Topics. (3 Credits)**

A. Study of contemporary issues and special topics in homeland security. May be retaken to a maximum of twelve hours under different subtitles.

**HLS 441. Homeland Security Technology. (3 Credits)**

A. Broad overview of homeland security technology. Technology as a tool to support homeland security regardless of functional specialty. Contribution of technology to deterrence, preemption, prevention, protection, and response.

**HLS 445. HLS Field Experience. (1-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, and a minimum of 30 hours completed. This course is designed to broaden the educational experience through appropriate observational work assignments in cooperating agencies. A minimum of 80 hours of observation is required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 455. HLS Independent Study. (1-6 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. Individual reading and research on a problem within the field of homeland security. Students must have independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

**HLS 461. Disaster Resilience. (3 Credits)**

A. Concepts, theories, principles, programs, and requirements or pre- and post-disaster hazard mitigation; governmental programs, planning and practice; hazard and threat modeling and analysis; team building; case studies; project development.

**HLS 465. Unconventional Threats and Responses. (3 Credits)**

(3) A. The course addresses concepts, theories, laws and authorities, principles, programs, and requirements associated with unconventional threats to our nation that most likely would result in mass casualties, and pose large-scale responses and cascading threats.

**HLS 491. Disaster Planning and Exercises. (3 Credits)**

(3) A. Prerequisite: HLS 260. Emergency planning requirements, methods and applications for all levels of government and business, including hazard mitigation and emergency operations planning; also considers planning for universities, colleges and secondary schools.

**HLS 495. Leadership and Ethics. (3 Credits)**

A. Prerequisite: Senior standing or departmental approval. Examines theories and practical applications of leadership and ethical decision making. Senior capstone course requiring synthesis of prior course work in homeland security.

**Occupational Safety****OSH 110. Introduction to Safety Studies. (3 Credits)**

A. Students will develop the necessary writing, study, research, and Blackboard navigation skills. Topics include history of OSHA, safety ethics, basic hazard identification and analysis, and safety profession and hazard reports.

**OSH 200. Measures of Safety Performance. (3 Credits)**

A. Strategies and methods for calculating, analyzing, interpreting and communicating safety performance data. Presents lagging and leading metrics of safety, quantitative and qualitative statistical techniques, descriptive and inferential statistics, correlations, and financial principles. Credit will not be awarded for both OSH 200 and FSE 200.

**OSH 225. Legal Aspects of Occupational Safety. (3 Credits)**

A. Study of the OSH Act, OSHA standards, correlating laws and legislation impacting the safety function and employee safety. Emphasis on legal rights, responsibilities, legal risks, liabilities, scope of authority, ethical/professional standards for safety professionals. Credit will not be awarded for both OSH 225 and FSE 225.

**OSH 261. Principles of Occupational Safety and Health. (3 Credits)**

A. Prerequisite and/or Corequisite: OSH 110. Formerly: OSH 361. History of the development of occupational safety and health. Methods of accident prevention and hazard control. Introduction to safety programs, worker's compensation, emergency preparedness and accident investigation. Credit will not be awarded for students who have credit for OSH 361 or FSE 361.

**OSH 262. Principles of Occupational Safety and Health Legislation. (3 Credits)**

A. Formerly OSH 362. B. Prerequisite or Co-requisite: OSH 261 Review of OSHA standards with emphasis on compliance and liability reduction. Discussion of OSHA regulations including citations, penalties, inspections, and record keeping. Credit will not be awarded for both OSH 262 and OSH 362.

**OSH 300. Safety Training Strategies. (3 Credits)**

I, II, and A. Formerly OSH 450. Prerequisite: OSH 261. Students will learn how to apply adult learning and technical training strategies to occupational training programs for management and workforce safety related topics. Credit will not be awarded for both OSH 450 and OSH 300.

**OSH 305. Hazardous Materials. (3 Credits)**

A. This course introduces students to the anticipation, recognition, evaluation management, and control of hazardous materials through focusing on applicable general industry standards 29 CFR 1910 Subpart H. Topics include HAZWOPER, Compressed Gasses, Flammable and Combustible Liquids requirements, and others.

**OSH 349. Applied Learning in Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 and OSH 349.

**OSH 349A. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349B. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349C. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349D. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349E. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349F. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349G. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349H. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349J. Coop Study OSH. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 350. Measures of Safety Performance. (3 Credits)**

A. Formerly OSH 200. Prerequisite: OSH 261. Strategies and methods for calculating, analyzing, interpreting and communicating safety performance data. Presents lagging and leading metrics of safety, quantitative and qualitative statistical techniques, descriptive and inferential statistics, correlations, and financial principles. Credit will not be awarded for both OSH 200 and 350.

**OSH 366. Hazard Identification and Control. (3 Credits)**

A. Prerequisite: OSH 261 with a grade of C or higher or departmental approval. Hands-on approach toward identification and control. Areas of study include noise levels, chemical and electrical hazards, air contaminants, and heat/cold stress. Control measures include administrative, engineering, and safeguarding methods. Credit will not be awarded for both OSH 366 and FSE 366.

**OSH 367. Human Factors in Occupational Safety. (3 Credits)**

(3) A. Prerequisite or Co-requisite: OSH 261. Focuses on ergonomics, man/machine interface and human efficiency. Study of work-related stress, psychological factors, and Cumulative Trauma Disorders. Solutions are reviewed for common problems found in labor-intensive operations. Credit will not be awarded for both OSH 367 and FSE 367.

**OSH 370. Process Safety Management. (3 Credits)**

I, II, and A. Prerequisite: OSH 366. This course is designed to introduce the occupational safety student to the process safety management standard, 29 CFR 1910.119, and cover complex management topics involved in managing processes of highly hazardous chemicals.

**OSH 379. Construction Safety. (3 Credits)**

A. An in-depth analysis of the federal and Commonwealth of Kentucky's OSHA requirements for construction safety. Credit will not be awarded for both OSH 379 and FSE 379.

**OSH 390. Workers Compensation. (3 Credits)**

A. Comprehensive study of workers' compensation. Topics range from coverage to claims, including in-depth study of the legal, no-fault, exclusive remedy nature of claims; underwriting and experience rating; business loss control measures; and loss control profession. Credit will not be awarded for both OSH 390 and FSE 390.

**OSH 410W. Safety Management Systems. (3 Credits)**

I, II, and A. Prerequisite: ENG 102, 105, or HON 102; OSH 261. This writing-intensive course is designed to provide the student with the knowledge and skills to apply safety management systems components, hazard analysis, and causal analysis. Credit will not be awarded for both OSH 410 and OSH 410W.

**OSH 412. Safety Management Systems. (3 Credits)**

A. Prerequisite or Co-requisite: OSH 410W (C). Effective management and leadership principles applied to safety. Emphasis on developing organizational culture, key roles of safety professionals and preventing serious injuries. Strategies include identifying business concepts for safety, gaining meaningful employee engagement, and program development. Credit will not be awarded for both OSH 412 and FSE 412.

**OSH 420. Environmental Law and Management. (3 Credits)**

I, II. Formerly FSE 420. Review/analysis of laws affecting workplaces, including the Clean Water Act, Clean Air Act, RCRA and CERCLA. Additionally, study of these laws and related policies/practices will be covered as related to safety. Credit will not be awarded to students who have credit for FSE 420 or EHS 425.

**OSH 450. Safety Training Strategies. (3 Credits)**

I, II, and A. Students will learn how to apply adult learning and technical training strategies to occupational training programs for management and workforce safety related topics.

**OSH 489. Topical Seminar. (1-3 Credits)**

I, II, and A. Development of special skills and content knowledge of contemporary issues in occupational safety. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**OSH 495. Senior Capstone. (3 Credits)**

Prerequisite: OSH 410 or 410W with a grade of C or better. Students examine case studies, examine real life situations, combine knowledge they have gained from previous coursework, analyze and develop strategies, develop countermeasures, engage in strategic planning and policy development and training.

**OSH 498. Independent Study. (1-3 Credits)**

A. Prerequisite: Departmental approval. Individual reading and research on a problem or area within the field of Occupational Safety, after student consultation with the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours providing project title differs.

## Basic Emergency Medical Technician, Certificate

Meets the National Registry of Emergency Medical Technician and Kentucky Board of Emergency Medical Services certification requirement for EMT.

Certificate awarded by the Department of Fire Protection and Paramedicine Sciences and not Eastern Kentucky University.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
EMC 110	Introduction to Emergency Medical Care	3

EMC 110L	Introduction to Emergency Medical Care Laboratory <sup>1</sup>	2
<b>Total Hours</b>		<b>5</b>

<sup>1</sup>

Co-requisite: EMC 104 Healthcare Basic Life Support

## Disaster Management, Minor Program Requirements

CIP Code: 43.0302

A student may minor in Disaster Management by completing, with a grade of "C" or better, a total of 18 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
HLS 260	Disaster Preparedness & Response	3
HLS 461	Disaster Resilience	3
HLS 491	Disaster Planning and Exercises	3
<i>Electives</i>		
Choose from nine hours of the following:		9
HLS 349	Applied Learning in HLS	
HLS 391	Risk Analysis	
HLS 445	HLS Field Experience	
HLS 455	HLS Independent Study	
GEO 315	Meteorology	
GEO 325	Environment Land Use Planning	
GEO 353	Geographic Information Systems	
GEO 453	Advanced GIS	
GEO 456	Remote Sensing	
<b>Total Hours</b>		<b>18</b>

## Emergency Medical Care, Bachelor of Science with a Concentration in Emergency Services Administration (B.S.)

### Admission Procedure

Students who have been admitted to the University and College of Justice and safety and declare a major in Emergency Medical Care are admitted to the Emergency Medical Care Program. Admission to the Emergency medical Care Program does not guarantee admission to the Advanced Emergency Medical (paramedic) sequence.

Emergency Medical Care students are accepted each semester. Students are selected for admission into the Advanced Emergency Medical Care Program once a year. Selection is made based on the admission matrix. Criteria include: GPA, entrance exam scores, pre-requisite course grades and completion. Information meetings or communication will be held. Please refer to the EMC webpage for additional information.

### Additional Requirements

1. Students must have a minimum grade of "C" in all advanced sequence, EMC pre-requisite courses.

- Students must maintain a minimum GPA of 2.0 on a 4.0 scale.
- Students must purchase and maintain the student liability insurance prior to enrollment in

Code	Title	Hours
EMC 110	Introduction to Emergency Medical Care	3
EMC 115	Basic Clinical/Field Experience	2
EMC 342	Advanced Clinical I	3
EMC 352	Advanced Clinical II	3
EMC 360	Advanced Field Internship	2
EMC 362	Advanced Field Internship II	4

- All transfer credit evaluation and program approval must be completed prior to the application deadline.

## Program Requirements

CIP Code: 51.0904

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/ Supporting/ Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)		
ACCT - Emergency Medical Care majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
EMC 362	Advanced Field Internship II	

### Major Requirements

<i>Core Courses</i>		
EMC 300	Emergency Operations, and Behavioral Crisis	3
EMC 303	Introduction to Cardiology	3
EMC 305	Prehospital Management of OB/GYN/Pediatric Emergency	3
EMC 310	Advanced Cardiology	3
EMC 320	Adv Life Support: Trauma	3
EMC 335	Medical Emergencies I	3
EMC 340	Advanced Life Support: Medical Emergencies	3
EMC 342	Advanced Clinical I	3
EMC 352	Advanced Clinical II and Advanced Clinical II Lab & 352L	3
EMC 360	Advanced Field Internship	2
EMC 362	Advanced Field Internship II	4
EMC 400	Emergency Care Systems Management	3
FSE 489	Topical Seminar:___	3

### Concentrations

Students must select one of the following Concentrations:

Emergency Services Administration	25
Paramedical Clinic/FSE	
Paramedic/Science	

### Free Electives

Choose from 19 hours of free electives	19
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<b>Total Hours</b>	<b>120</b>
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### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
CHE 101	Introductory Chemistry (Element 4) <sup>G</sup>	
CHE 101L	Introductory Chemistry Lab (Element 4) <sup>G</sup>	
CHE 102 & 102L	Introductory Chemistry II and Introductory Chemistry Lab II	4
EMC 420	Emergency Services Design and Budget	3
EMC 430 or EMC 430W	Legal and Ethical Aspects of Emergency Services	3
EMC 440	EMS Instruction	3
EMC 480	Topics in Emergency Medicine	3
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
PSY 308	Abnormal Psychology	3
<b>Total Hours</b>		<b>25</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of 3 cr. hr. will count toward Element 4.

# Emergency Medical Care, Bachelor of Science with a Concentration in Paramedic/Science (B.S.)

## Admission Procedure

Students who have been admitted to the University and College of Justice and safety and declare a major in Emergency Medical Care are admitted to the Emergency Medical Care Program. Admission to the Emergency medical Care Program does not guarantee admission to the Advanced Emergency Medical (paramedic) sequence.

Emergency Medical Care students are accepted each semester. Students are selected for admission into the Advanced Emergency Medical Care Program once a year. Selection is made based on the admission matrix. Criteria include: GPA, entrance exam scores, pre-requisite course grades and completion. Information meetings or communication will be held. Please refer to the EMC webpage for additional information.

## Additional Requirements

1. Students must have a minimum grade of "C" in all advanced sequence, EMC pre-requisite courses.
2. Students must maintain a minimum GPA of 2.0 on a 4.0 scale.
3. Students must purchase and maintain the student liability insurance prior to enrollment in

Code	Title	Hours
EMC 110	Introduction to Emergency Medical Care	3
EMC 115	Basic Clinical/Field Experience	2
EMC 342	Advanced Clinical I	3
EMC 352	Advanced Clinical II	3
EMC 360	Advanced Field Internship	2
EMC 362	Advanced Field Internship II	4

4. All transfer credit evaluation and program approval must be completed prior to the application deadline.

## Program Requirements

CIP Code: 51.0904

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/ Supporting/ Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)		
ACCT - Emergency Medical Care majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
EMC 362	Advanced Field Internship II	
<b>Major Requirements</b>		
<i>Core Courses</i>		
EMC 300	Emergency Operations, and Behavioral Crisis	3
EMC 303	Introduction to Cardiology	3
EMC 305	Prehospital Management of OB/GYN/Pediatric Emergency	3
EMC 310	Advanced Cardiology	3
EMC 320	Adv Life Support: Trauma	3
EMC 335	Medical Emergencies I	3
EMC 340	Advanced Life Support: Medical Emergencies	3
EMC 342	Advanced Clinical I	3
EMC 352	Advanced Clinical II and Advanced Clinical II Lab & 352L	3
EMC 360	Advanced Field Internship	2
EMC 362	Advanced Field Internship II	4
EMC 400	Emergency Care Systems Management	3
FSE 489	Topical Seminar:___	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Emergency Services Administration		
Paramedical Clinic/FSE		
Paramedic/Science		31
<i>Free Electives</i>		
Choose from 13 hours of free electives		13
<b>Total Hours</b>		<b>120</b>

EMC 300	Emergency Operations, and Behavioral Crisis	3
EMC 303	Introduction to Cardiology	3
EMC 305	Prehospital Management of OB/GYN/Pediatric Emergency	3
EMC 310	Advanced Cardiology	3
EMC 320	Adv Life Support: Trauma	3
EMC 335	Medical Emergencies I	3
EMC 340	Advanced Life Support: Medical Emergencies	3
EMC 342	Advanced Clinical I	3
EMC 352	Advanced Clinical II and Advanced Clinical II Lab & 352L	3
EMC 360	Advanced Field Internship	2
EMC 362	Advanced Field Internship II	4
EMC 400	Emergency Care Systems Management	3
FSE 489	Topical Seminar:___	3

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 318	General Botany	4
BIO 171		3
BIO 273	Clinical Microbiology	4
BIO 308	Human Anatomy and Physiology II	3

CHE 111	General Chemistry (Element 4) <sup>G</sup>	
CHE 111L	General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
PHY 131	College Physics I	5
<b>Total Hours</b>		<b>31</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of 3 cr. hr. will count toward Element 4.

## Emergency Medical Care, Bachelor of Science with a Concentration in Paramedical Clinic/FSE (B.S.)

### Admission Procedure

Students who have been admitted to the University and College of Justice and safety and declare a major in Emergency Medical Care are admitted to the Emergency Medical Care Program. Admission to the Emergency medical Care Program does not guarantee admission to the Advanced Emergency Medical (paramedic) sequence.

Emergency Medical Care students are accepted each semester. Students are selected for admission into the Advanced Emergency Medical Care Program once a year. Selection is made based on the admission matrix. Criteria include: GPA, entrance exam scores, pre-requisite course grades and completion. Information meetings or communication will be held. Please refer to the EMC webpage for additional information.

### Additional Requirements

1. Students must have a minimum grade of "C" in all advanced sequence, EMC pre-requisite courses.
2. Students must maintain a minimum GPA of 2.0 on a 4.0 scale.
3. Students must purchase and maintain the student liability insurance prior to enrollment in

Code	Title	Hours
EMC 110	Introduction to Emergency Medical Care	3
EMC 115	Basic Clinical/Field Experience	2
EMC 342	Advanced Clinical I	3
EMC 352	Advanced Clinical II	3
EMC 360	Advanced Field Internship	2
EMC 362	Advanced Field Internship II	4

4. All transfer credit evaluation and program approval must be completed prior to the application deadline.

### Program Requirements

CIP Code: 51.0904

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/ Supporting/ Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)		
ACCT - Emergency Medical Care majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
EMC 362	Advanced Field Internship II	
<b>Major Requirements</b>		
<i>Core Courses</i>		
EMC 300	Emergency Operations, and Behavioral Crisis	3
EMC 303	Introduction to Cardiology	3
EMC 305	Prehospital Management of OB/GYN/Pediatric Emergency	3
EMC 310	Advanced Cardiology	3
EMC 320	Adv Life Support: Trauma	3
EMC 335	Medical Emergencies I	3
EMC 340	Advanced Life Support: Medical Emergencies	3
EMC 342	Advanced Clinical I	3
EMC 352 & 352L	Advanced Clinical II and Advanced Clinical II Lab	3
EMC 360	Advanced Field Internship	2
EMC 362	Advanced Field Internship II	4
EMC 400	Emergency Care Systems Management	3

FSE 489	Topical Seminar:___	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Emergency Services Administration		
Paramedical Clinic/FSE		19
Paramedic/Science		
<i>Free Electives</i>		
Choose from 25 hours of free electives		
<b>Total Hours</b>		<b>120</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
CHE 101	Introductory Chemistry (Element 4) <sup>G</sup>	
CHE 101L	Introductory Chemistry Lab (Element 4) <sup>G</sup>	
CHE 102 & 102L	Introductory Chemistry II and Introductory Chemistry Lab II	4
FSE 320	Principles of Emergency Services	3
FSE 225	Legal Aspects of Fire Protection	3
or OSH 261	Principles of Occupational Safety and Health	
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
PSY 308	Abnormal Psychology	3
<b>Total Hours</b>		<b>19</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of 3 cr. hr. will count toward Element 4.

## Emergency Medical Care, Minor

The Minor in Emergency Medical Care is not available to B.S. Emergency Medical Care majors.

## Program Requirements

A student may minor in Emergency Medical Care by completing, with a grade of "C" or better, a total of 18 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
EMC 104	Healthcare Basic Life Support	1
EMC 110	Introduction to Emergency Medical Care	3
EMC 110L	Introduction to Emergency Medical Care Laboratory	2
<i>Electives</i>		
Choose from 12 hours of the following:		
EMC 105	Survey of Medical Terminology	
EMC 300	Emergency Operations, and Behavioral Crisis	
EMC 303	Introduction to Cardiology	
EMC 400	Emergency Care Systems Management	
EMC 420	Emergency Services Design and Budget	
EMC 430W	Legal and Ethical Aspects of Emergency Services	
EMC 440	EMS Instruction	

EMC 480	Topics in Emergency Medicine	
EMC 489	Introduction to Research Methods	
<b>Total Hours</b>		<b>18</b>

## Fire and Safety Engineering Technology, Minor

### Program Requirements

The courses required to complete a minor in Fire and Safety Engineering Technology include:

Code	Title	Hours
<b>Required Courses</b>		
FSE 120	Fire Behavior and Combustion	3
FSE 221	Fire Detection and Suppression Systems	3
FSE 224	Human Behavior In Fire	3
FSE 355	Fire Dynamics	3
FSE 445	Advanced Structural Fire Protection	3
FSE 480	Industrial Fire Safety	3
<b>Total Hours</b>		<b>18</b>

## Fire Protection Administration, Bachelor of Science (B.S.)

### Program Requirements

CIP Code : 43.0202

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

The Department of Safety, Security, and Emergency Management requires that each graduate of Fire Protection Administration (B.S.) must complete

a minimum of 32 credit hours in the College of Justice, Safety and Military Science at Eastern Kentucky University and must complete a minimum of 18 upper division credits from the Safety, Security and Emergency Management Department.

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/ Supporting/ Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)		
ACCT - Fire Protection Administration majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
FSE 400	Advanced Emergency Services	
<b>Major Requirements</b>		
<i>Core Courses</i>		
FSE 101	Fire Prevention	3
FSE 120	Fire Behavior and Combustion	3
FSE 201	Building Construction	3
FSE 221	Fire Detection and Suppression Systems	3
FSE 223	Fire and Emergency Scene Operations	3
FSE 225	Legal Aspects of Fire Protection	3
FSE 230	Fire Prevention Organization and Management	3
FSE 300W	Technical Report Writing for Emergency Services	3
FSE 305	Hazardous Materials	3
FSE 320	Principles of Emergency Services	3
FSE 322	Water-Based Fire Protection Systems Design	3
FSE 349	Applied Learning in Fire and Safety Engineering	3
FSE 350	Fire Arson and Explosion Investigation	3
FSE 355	Fire Dynamics	3
FSE 360	Fire Protection Hydraulics and Water Supply	3
FSE 365	Instructional Methodology for Emergency Service	3
FSE 375	Emergency Services Resource Management	3
FSE 400	Advanced Emergency Services	3
FSE 425	Disaster & Community Fire Defense Planning	3
FSE 390		3
<i>Supporting Course Requirements</i>		
Choose from 14 hours of the following:		14
CHE 101	Introductory Chemistry (Element 4) <sup>G</sup>	
CHE 101L	Introductory Chemistry Lab (Element 4) <sup>G</sup>	
CHE 102 & 102L	Introductory Chemistry II and Introductory Chemistry Lab II	
MAT 114	College Algebra (Element 2) <sup>G</sup>	
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
<i>Free Electives</i>		
Choose from nine hours of free electives		9
<b>Total Hours</b>		<b>120</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of 3 cr. hrs. will count toward Element 4.

## Fire Protection Administration, Minor Program Requirements

A student may minor in Fire Protection Administration by completing, with a grade of "C" or better, a total of 21 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
FSE 120	Fire Behavior and Combustion	3
FSE 201	Building Construction	3
FSE 223	Fire and Emergency Scene Operations	3
FSE 225	Legal Aspects of Fire Protection	3
FSE 365	Instructional Methodology for Emergency Service	3
FSE 375	Emergency Services Resource Management	3
FSE 400	Advanced Emergency Services	3
<b>Total Hours</b>		<b>21</b>

## Fire Protection and Safety Engineering Technology, Bachelor of Science (B.S.)

### Program Educational Objectives

Within 3-5 years of graduation, graduates of the Fire Protection and Safety Engineering Technology Program will be able to:

1. Practice fire protection engineering regionally, nationally, and internationally in a broad range of modern professional settings.
2. Actively participate in the development of engineering decisions on societal, environmental, economical, and safety issues at the local or global levels.
3. Understand the need for lifelong learning and continued professional development.
4. Maintain continual professional competency and practice ethically.

### Program Requirements

CIP Code : 43.0201

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		

Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

The Department of Safety, Security, and Emergency Management requires that each graduate of Fire, Protection, and Safety Engineering Technology (B.S.) must complete a minimum of 32 credit hours in the College of Justice, Safety and Military Science at Eastern Kentucky University and must complete a minimum of 18 upper division credits from the Safety, Security and Emergency Management Department. (Accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>)

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/ Supporting/ Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)		
ACCT - Fire, Protection, and Safety Engineering Technology majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
FSE 481	Fire Protection Design	
<b>Major Requirements</b>		
<i>Core Courses</i>		
FSE 101	Fire Prevention	3
FSE 120	Fire Behavior and Combustion	3
FSE 221	Fire Detection and Suppression Systems	3
FSE 224	Human Behavior In Fire	3
FSE 300W	Technical Report Writing for Emergency Services	3
FSE 305	Hazardous Materials	3
FSE 322	Water-Based Fire Protection Systems Design	3
FSE 349	Applied Learning in Fire and Safety Engineering	3
FSE 350	Fire Arson and Explosion Investigation	3
FSE 355	Fire Dynamics	3
FSE 360	Fire Protection Hydraulics and Water Supply	3
FSE 445	Advanced Structural Fire Protection	3
FSE 480	Industrial Fire Safety	3
FSE 481	Fire Protection Design	3
<i>Supporting Course Requirements</i>		
CHE 101	Introductory Chemistry (Element 4) <sup>G</sup>	3
CHE 101L	Introductory Chemistry Lab (Element 4) <sup>G</sup>	1
CHE 102 & 102L	Introductory Chemistry II and Introductory Chemistry Lab II	4

CON 303	Statics and Strength of Materials	3
CON 322	Construction Structural Design	3
MAT 234	Calculus I (Element 2) <sup>G</sup>	4
MAT 244	Calculus II	4
PHY 201	University Physics I	5
PHY 202	University Physics II	5
PHY 375	Engineering Thermodynamics	3
AEM 195	Computer Aided Drafting	3
<i>Free Electives</i>		
Choose from 3 hours of free electives		3
<b>Total Hours</b>		<b>120</b>

## G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

# Fire, Arson, and Explosion Investigation, Bachelor of Science (B.S.)

## Program Requirements

CIP Code: 43.0205

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

The Department of Safety, Security, and Emergency Management requires that each graduate of Fire, Arson, and Explosion Investigation (B.S.) must complete a minimum of 32 credit hours in the College of Justice, Safety and Military Science at Eastern Kentucky University and must complete a minimum of 18 upper division credits from the Safety, Security and Emergency Management Department.

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/ Supporting/ Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)		
ACCT - Fire, Arson and Explosion Investigations majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
FSE 496	Fire Investigation Case Preparation	
<b>Major Requirements</b>		
<i>Core Courses</i>		
FSE 101	Fire Prevention	3
FSE 120	Fire Behavior and Combustion	3
FSE 201	Building Construction	3
or FSE 201S	Building Construction	
FSE 221	Fire Detection and Suppression Systems	3
FSE 223	Fire and Emergency Scene Operations	3
FSE 250	Introduction to Explosion Investigations and Bombings	3
FSE 260	Proving Criminal Acts	3
FSE 280	Constitutional Criminal Procedure	3
FSE 305	Hazardous Materials	3
FSE 330	Principles of Criminal Investigation	3
FSE 349	Applied Learning in Fire and Safety Engineering	3
FSE 350	Fire Arson and Explosion Investigation	3
FSE 355	Fire Dynamics	3
FSE 370	Electrical and Mechanical Systems Failure Analysis	3
FSE 380	Failure Analysis	3
FSE 450	Advanced Explosion and Bombing Investigation	3
FSE 495	Fire Arson and Explosion Case Preparation	3
FSE 496	Fire Investigation Case Preparation	3
FSE 499	Practicum	2
<i>Supporting Course Requirements</i>		
CHE 101	Introductory Chemistry (Element 4) <sup>G</sup>	
CHE 101L	Introductory Chemistry Lab (Element 4) <sup>G</sup>	
Choose from one of the following:		4
CHE 102 & 102L	Introductory Chemistry II and Introductory Chemistry Lab II	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
FOR 301	Introduction to Forensic Science	3
MAT 114	College Algebra (Element 2) <sup>G</sup>	
<i>Free Electives</i>		
Choose from 16 hours of free electives		16
<b>Total Hours</b>		<b>120</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of 3 cr. hr. will count toward Element 4.

## Fire, Arson, and Explosion Investigation, Minor

### Program Requirements

A student may minor in Fire, Arson, and Explosion Investigation by completing, with a grade of "C" or better, a total of 21 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
FSE 120	Fire Behavior and Combustion	3
FSE 250	Introduction to Explosion Investigations and Bombings	3
FSE 350	Fire Arson and Explosion Investigation	3
FSE 370	Electrical and Mechanical Systems Failure Analysis	3
FSE 380	Failure Analysis	3
FSE 450	Advanced Explosion and Bombing Investigation	3
FSE 495	Fire Arson and Explosion Case Preparation	3
<b>Total Hours</b>		<b>21</b>

## Homeland Security, Bachelor of Science (B.S.)

### Program Requirements

CIP Code: 43.0301

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Homeland Security majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
HLS 495	Leadership and Ethics	
<b>Major Requirements</b>		
<i>Core Courses</i>		
HLS 101	Introduction to Homeland Security	3
HLS 210	Cyber and Physical Security	3
HLS 260	Disaster Preparedness & Response	3
HLS 280	Mis-, Dis-, and Malinformation	3
HLS 301	Critical Infrastructure Protection	3
HLS 320	Security Management	3
HLS 391	Risk Analysis	3
HLS 395W	Homeland Sec. Policy Analysis	3
HLS 401	Intelligence Process	3
HLS 430	Terrorism and Violent Extremism	3
HLS 441	Homeland Security Technology	3
HLS 461	Disaster Resilience	3
HLS 465	Unconventional Threats and Responses	3
HLS 495	Leadership and Ethics	3
<i>Supporting Course Requirements</i>		
GEO 353	Geographic Information Systems	3
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
GEO 210	Introduction to Physical Geography (Element 4) <sup>G</sup>	
Choose from one of the following:		
HIS 103	American Civilization Since 1877 (Element 5A) <sup>G</sup>	
MSL 303	American Military History (Element 5A) <sup>G</sup>	
<i>Free Electives</i>		
Choose from 38 hours of free electives		38
<b>Total Hours</b>		<b>120</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of 3 cr. hours will count toward Element 2. A maximum of 3 cr. hrs. will count toward Element 4.

## Homeland Security, Certificate

Not available to B.S. in Homeland Security majors or minors

## Program Requirements

CIP Code: 43.0301

Students may obtain a Certificate in Homeland Security by completing, with a grade of "C" or better, a total of 24 semester hours as follows:

Code	Title	Hours
<b>Certificate Requirements</b>		
HLS 101	Introduction to Homeland Security	3
HLS 210	Cyber and Physical Security	3
HLS 260	Disaster Preparedness & Response	3
or HLS 461	Disaster Resilience	
HLS 301	Critical Infrastructure Protection	3
HLS 430	Terrorism and Violent Extremism	3
<i>Electives</i>		
Choose from nine hours of the following:		9
HLS 349	Applied Learning in HLS	
HLS 391	Risk Analysis	
HLS 401	Intelligence Process	
HLS 441	Homeland Security Technology	
HLS 445	HLS Field Experience	
HLS 455	HLS Independent Study	
HLS 465	Unconventional Threats and Responses	
<b>Total Hours</b>		<b>24</b>

## Homeland Security, Minor

Not available to B.S. in Homeland Security majors or Homeland Security certificate-seeking students.

## Program Requirements

CIP Code: 43.0301

A student may minor in Homeland Security by completing, with a grade of "C" or better, a total of 18 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
HLS 101	Introduction to Homeland Security	3
HLS 210	Cyber and Physical Security	3
HLS 260	Disaster Preparedness & Response	3
or HLS 461	Disaster Resilience	
HLS 301	Critical Infrastructure Protection	3
HLS 391	Risk Analysis	3
HLS 401	Intelligence Process	3
or HLS 465	Unconventional Threats and Responses	
HLS 430	Terrorism and Violent Extremism	3
<b>Total Hours</b>		<b>21</b>

## Industrial Fire Protection, Certificate

This certificate prepares student for careers in Industrial Fire Protection.

## Program Requirements

CIP Code: 43.0201

The certificate requires a grade of “C” or better in 24 hours of required courses and 6 hours of specialized practicum.

Code	Title	Hours
<b>Certificate Requirements</b>		
FSE 101	Fire Prevention	3
FSE 120	Fire Behavior and Combustion	3
FSE 221	Fire Detection and Suppression Systems	3
FSE 300W	Technical Report Writing for Emergency Services	3
FSE 305	Hazardous Materials	3
FSE 320	Principles of Emergency Services	3
FSE 360	Fire Protection Hydraulics and Water Supply	3
OSH 261	Principles of Occupational Safety and Health	3
FSE 480	Industrial Fire Safety	3
FSE 499	Practicum	6
<b>Total Hours</b>		<b>33</b>

## Industrial Fire Protection, Minor Program Requirements

A student may minor in Industrial Fire Protection by completing, with a grade of “C” or better, a total of 21 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
FSE 101	Fire Prevention	3
FSE 120	Fire Behavior and Combustion	3
FSE 221	Fire Detection and Suppression Systems	3
FSE 224	Human Behavior In Fire	3
FSE 322	Water-Based Fire Protection Systems Design	3
FSE 360	Fire Protection Hydraulics and Water Supply	3
FSE 480	Industrial Fire Safety	3
<b>Total Hours</b>		<b>21</b>

## Intelligence Studies, Certificate Program Requirements

CIP Code: 29.0201

This certificate requires a grade of “C” or better in 12 hours of required intelligence courses and 12 hours within a single Concentration.

Code	Title	Hours
<b>Certificate Requirements</b>		
HLS 401	Intelligence Process	3
HLS 402	Counterintelligence	3
HLS 403	Intelligence Analysis	3
HLS 430	Terrorism and Violent Extremism	3

### Concentrations

Concentration Prerequisite: Certificate advisor must pre-approve courses selected for all concentrations. A Coop or Internship in an intelligence-related position may be credited to meet requirements of any concentration (three hours maximum).

Students must select one of the following Concentrations:	12
Intelligence Collection and Analysis	

Threat Specialist	
Regional Analysis	
Security Operations	
Science & Technology	
<b>Total Hours</b>	<b>24</b>

### Concentrations

#### Intelligence Collection and Analysis Concentration

Select 12 upper-division hours (300 or 400 level) in courses related to intelligence collection and analysis including, but not limited to, forensic accounting and computing, geographic information systems, logic, mathematics, risk analysis or statistical analysis.

#### Threat Specialist Concentration

Select 12 upper-division hours (300 or 400 level) in courses related to threats to public and national security including, but not limited to, criminal justice, homeland security, international relations, international security, national security or terrorism/counterterrorism.

#### Regional Analysis Concentration

Select 12 upper-division hours (300 or 400 level) in the culture, economics, environment, geography, history, military, politics, religions or security of a specific country or region (foreign or U.S). No more than two courses may have the same prefix. Students selecting this concentration must also have a minimum of two lower-division or upper-division courses in a language associated with the selected specific country or region.

#### Security Operations Concentration

Select 12 upper-division hours (300 or 400 level) in courses related to cyber security, government/industrial security, personnel security, physical security, risk analysis, security management or workplace investigations.

#### Science & Technology Concentration

Select 12 upper-division hours (300 or 400 level) in a scientific or technology discipline, including, but not limited to, astronomy, biology, biotechnology, chemistry, earth science, forensic science, health science, information systems, life science, mathematics, microbiology, pharmacology, physics, space science, toxicology; or in an engineering discipline, including, but not limited to, aerospace, civil, computer, electrical, electronic, mechanical, material, nuclear or systems engineering.

## NREMT-P to Associate of Paramedicine (ASP) Degree Program Transferring Paramedic Credit into the EMC Program

Effective January 2013 the National Registry has instituted a policy requiring that all candidates for certification must complete coursework from a CoAEMSP nationally accredited paramedic program.

### Time Limit for Program Completion

To maintain EKU’s status as a CoAEMSP nationally-accredited paramedic program students must progress through their EMC advanced sequence of classes (200-level and 300-level courses, as well as supporting courses) within a specified time limit. Each student must successfully complete all of these courses before they are eligible to take the NREMT

skill and didactic examinations to obtain the NREMT Paramedic card. The start of an individual student's time limitation ("advanced sequence and testing clock") will be determined by the student's program advisor.

## Credit from a CoAEMSP Accredited Paramedic Program

Students with transfer credit from a CoAEMSP accredited paramedic program may have this credit used to fulfill a portion of their major and supporting program requirements. Such work will be evaluated by EMC faculty for comparability and content; students may be required to complete departmental exams to gauge subject mastery and to assist with appropriate course placement.

## Admission Requirements

Current holders of National Registry of Emergency Medical Technicians – Paramedic (NRP or State credentialing as defined by the program) certification may earn the Associate of Paramedicine (ASP) degree through an accelerated program offered by the EMC department. Applicants for admission into this accelerated program are accepted each semester.

## Program Requirements

Students admitted into the NRP NREMT-P to ASP program will be required to take all general education and supporting coursework for the Associate of Science Paramedicine (A.S.P.) (p. 285).

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education Elements		15
ENG 101	Reading, Writing, and Rhetoric (Element 1)	
ENG 102	Research, Writing, and Rhetoric (Element 1)	
Element 3: Arts and Humanities		
Element 5B: Social Behavioral Sciences		
<b>Major Requirements</b>		
<i>Core Courses</i>		
EMC 380	Advanced Prehospital Theory Medical <sup>1</sup>	4
EMC 382	Adv Prehospital Theory-Trauma <sup>1</sup>	4
EMC 335	Medical Emergencies I <sup>1</sup>	3
EMC 340	Advanced Life Support: Medical Emergencies <sup>1</sup>	3
EMC 342	Advanced Clinical I <sup>1</sup>	3
EMC 352	Advanced Clinical II <sup>1</sup>	3
EMC 360	Advanced Field Internship <sup>1</sup>	2
EMC 362	Advanced Field Internship II <sup>1</sup>	4
EMC 105	Survey of Medical Terminology <sup>2</sup>	1
EMC 110	Introduction to Emergency Medical Care <sup>2</sup>	3
EMC 303	Introduction to Cardiology <sup>2</sup>	3
EMC 104	Healthcare Basic Life Support <sup>3</sup>	1
EMC 310	Advanced Cardiology <sup>3</sup>	3
EMC 315	Pediatric Adv Life Support <sup>3</sup>	1
EMC 320	Adv Life Support: Trauma <sup>3</sup>	3
<i>Supporting Course Requirements</i>		
BIO 171		3
BIO 301		3
<b>Total Hours</b>		<b>62</b>

1

After successful completion of both EMC 380 Advanced Prehospital Theory Medical and EMC 382 Adv Prehospital Theory-Trauma, students will receive 18 credit hours which include:

EMC 335 Medical Emergencies I, EMC 340 Advanced Life Support: Medical Emergencies, EMC 342 Advanced Clinical I, EMC 352 Advanced Clinical II, EMC 360 Advanced Field Internship, EMC 362 Advanced Field Internship II.

2

Credit is available through successful completion of department proficiency examinations.

3

Current and maintained certification in AHA CPR for Healthcare Professionals, ACLS-EP, PALS (and/or PEPP), and certification in PHTLS (or ITLS) may result in credit.

A total of 64 credit hours are required to obtain the Paramedicine (A.S.P.). Students must also obtain a minimum grade of "C" in all EMC courses. Students must also maintain an overall ECU GPA of 2.0 on a 4.0 scale.

## Occupational Safety, Bachelor of Science (B.S.)

### Program Requirements

CIP Code: 15.0703

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		

JSO 100 Student Success Seminar (waived for transfers with 30+ hrs.) 1

Writing Intensive Course (Hrs. incorporated into Major/ Supporting/ Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)

ACCT - Occupational Safety majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)

OSH 349 Applied Learning in Occupational Safety  
or OSH 495 Senior Capstone

### Major Requirements

#### Core Courses

OSH 110	Introduction to Safety Studies	3
OSH 261	Principles of Occupational Safety and Health	3
OSH 262	Principles of Occupational Safety and Health Legislation	3
OSH 300	Safety Training Strategies	3
OSH 350	Measures of Safety Performance	3
OSH 366	Hazard Identification and Control	3
OSH 367	Human Factors in Occupational Safety	3
OSH 379	Construction Safety	3
OSH 390	Workers Compensation	3
OSH 410W	Safety Management Systems	3
OSH 412	Safety Management Systems	3
OSH 495	Senior Capstone	3

#### Supporting Course Requirements

Fire Prevention/Protection:

Choose from nine hours of the following: 9

FSE 101	Fire Prevention
FSE 120	Fire Behavior and Combustion
FSE 221	Fire Detection and Suppression Systems
FSE 224	Human Behavior In Fire
FSE 349	Applied Learning in Fire and Safety Engineering
OSH 225	Legal Aspects of Occupational Safety
OSH 305	Hazardous Materials
OSH 489	Topical Seminar:___

Industrial Risk Management:

Choose from 18 hours of the following: 18

EHS 280	One Health: Global Environmental Public Health
EHS 340	Total Worker Health Principles
HLS 210	Cyber and Physical Security
OSH 349	Applied Learning in Occupational Safety <sup>1</sup>
OSH 370	Process Safety Management
OSH 420	Environmental Law and Management
OSH 489	Topical Seminar:___ <sup>1</sup>
OSH 498	Independent Study
TRS 225	Basic Fleet Management
or TRS 395	Marine Transportation Safety

#### General Education Requirement

CHE 101	Introductory Chemistry (or higher) (Element 4) <sup>G</sup>
CHE 101L	Introductory Chemistry Lab (or higher) (Element 4) <sup>G</sup>
MAT 112	Algebra with Applications (or higher) (Element 2) <sup>G</sup>

PHY 101 Conceptual Physics (or higher) (Element 4)<sup>G</sup>

#### Free Electives

Choose from 20 hours of free electives 20

**Total Hours 120**

1

Only six hours of earned credit for OSH 349 Applied Learning in Occupational Safety and/or OSH 489 Topical Seminar:\_\_\_ will apply to supporting course requirements. All other earned hours will apply as free elective credit.

G

Course also satisfies a General Education element. Some supporting course hours are therefore included within the 36 hr. General Education requirement above.

## Occupational Safety, Minor

### Program Requirements

A student may minor in Occupational Safety by completing, with a grade of "C" or better, a total of 18 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
OSH 110	Introduction to Safety Studies	3
OSH 261	Principles of Occupational Safety and Health	3
OSH 262	Principles of Occupational Safety and Health Legislation	3
OSH 366	Hazard Identification and Control	3
OSH 390	Workers Compensation	3
OSH 410W	Safety Management Systems	3
<b>Total Hours</b>		<b>18</b>

## Paramedicine, Associate of Science (A.S.)

### Program Requirements

CIP Code: 51.0904

#### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		15
Elements: 1A, 1B, 3B, 5A or 5B, and three hours of free elective General Education courses		
<i>Student Success Seminar</i>		
JSO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
<b>Major Requirements</b>		
<i>Core Courses</i>		
EMC 300	Emergency Operations, and Behavioral Crisis	3
EMC 303	Introduction to Cardiology	3
EMC 305	Prehospital Management of OB/GYN/Pediatric Emergency	3
EMC 310	Advanced Cardiology	3
EMC 315	Pediatric Adv Life Support	1

EMC 320	Adv Life Support: Trauma	3
EMC 335	Medical Emergencies I	3
EMC 340	Advanced Life Support: Medical Emergencies	3
EMC 342	Advanced Clinical I	3
EMC 352 & 352L	Advanced Clinical II and Advanced Clinical II Lab	3
EMC 360	Advanced Field Internship	2
EMC 362	Advanced Field Internship II	4
<i>Supporting Course Requirements</i>		
BIO 171		3
BIO 301		3
Choose from one of the following: (Element 1A & 1B) <sup>G,1</sup>		
ENG 101 & ENG 102	Reading, Writing, and Rhetoric and Research, Writing, and Rhetoric	
ENG 105	First Year Writing Seminar	
General Education Humanities (Element 3B) <sup>G</sup>		
Social Science (Element 4 or 5B) <sup>G</sup>		
Additional General Education		
<i>Free Electives</i>		
Choose from nine hours of free electives		
<b>Total Hours</b>		<b>65</b>

**G**  
Course also satisfies a General Education element. Hours are included within the General Education requirement above.

**1**  
With a grade of "A" or "B"

## Security Management, Certificate

### Program Requirements

CIP Code: 43.0112

The certificate requires a grade of "C" or better in 12 hours of required courses and 12 hours of elective courses.

Code	Title	Hours
<b>Certificate Requirements</b>		
HLS 210	Cyber and Physical Security	3
HLS 310	Personnel Security	3
HLS 350	Workplace Investigations	3
HLS 391	Risk Analysis	3
<i>Electives</i>		
Choose from 12 hours of the following:		
CIS 320	Forensic Computing: Investigations	
CIS 325	Forensic Computing: Acquisitions	
INF 307	Cyberspace Security and Ethics	
GBU 101	Introduction to Business	
GBU 201	International Business	
GBU 204	Legal and Ethical Environments of Business	
HLS 301	Critical Infrastructure Protection	
HLS 320	Security Management	
HLS 349	Applied Learning in HLS	
HLS 402	Counterintelligence	

INS 378	
<b>Total Hours</b>	<b>24</b>

## Social Intelligence & Leadership, Certificate

### Program Requirements

CIP Code: 35.0101

Completing the certificate requires a minimum grade of "C" in the following required courses:

Code	Title	Hours
<b>Certificate Requirements</b>		
CRE 101W	Introduction to Applied Creativity	3
EES 250	Basic Social Intelligence Skills	3
EES 300	Advanced Social Intelligence Skills	3
EES 310	Applied Critical Thinking	3
EES 450	Leaders Without Titles	3
EES 460	The Science and Application of Leadership	3
<b>Total Hours</b>		<b>18</b>

## Social Intelligence and Leadership, Minor

### Program Requirements

A minimum grade of "C" is mandatory in each of the following:

Code	Title	Hours
<b>Required Courses</b>		
CRE 101		3
EES 250	Basic Social Intelligence Skills	3
EES 300	Advanced Social Intelligence Skills	3
EES 310	Applied Critical Thinking	3
EES 450	Leaders Without Titles	3
EES 460	The Science and Application of Leadership	3
<b>Total Hours</b>		<b>18</b>

## Traffic Safety (Non-Teaching), Minor

### Program Requirements

A student may minor in Traffic Safety by completing 18 hours from the following courses:

Code	Title	Hours
<b>Required Courses</b>		
TRS 103	Safety in Personal Transportation	2
TRS 233	Emergency and Defensive Driving	3
TRS 322	Traffic Law Enforcement	3
TRS 413	Current Developments in Driver and Traffic Safety	3
Choose from seven hours of the following:		
TRS 100		
TRS 234	Beginning Motorcycle Safety	
TRS 332	Traffic Crash Causation and Investigation	

TRS 342	Advanced Accident Investigation
TRS 349	Co-op or Appl Lrn: Traffic Saf
TRS 407	Independent Study in Driver and Traffic Safety Education
TRS 491	Special Topics:___
<b>Total Hours</b>	<b>18</b>

## College of Letters, Arts & Social Sciences (CLASS)

Dr. Mercy Cannon, Dean  
Roark 103  
(859) 622-2222

Dr. John Bowes, Interim Associate Dean  
Roark 107  
(859) 622-6765

[www.class.eku.edu](http://www.class.eku.edu) (<http://www.class.eku.edu>)

Welcome to the College of Letters, Arts, and Social Sciences (CLASS). CLASS provides education in the arts, philosophy, literature, languages, and social sciences— fields that help us to understand ourselves and others and provide meaning and richness to our world. CLASS represents EKU's enduring commitment to a liberal arts education as the intellectual foundation for work, life, and citizenship.

In CLASS, we offer courses and academic programs that provide students with the foundation for success in a dynamic, fast-paced, and diverse world. These foundational skills help students excel and lead in any career, cultivate the creativity and critical thinking to adapt to diverse environments, and resolve society's most challenging problems in a culturally competent and ethical way. CLASS is focused on cultivating skills that are vital to the contemporary workplace - teamwork, critical thinking, communication, and leadership.

In CLASS, students can participate in EKU's nationally-ranked mock trial program, which affords students the chance to learn about the legal process in a simulation format.

### Degrees Offered

The College of Letters, Arts, and Social Sciences offers the following baccalaureate degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Social Work. The Associate of Arts is offered in Paralegal Studies.

### College Degree Requirements

General University degree requirements as set forth in Section Four of this *Catalog* as well as specific course requirements set forth in the descriptive curricula must be met by students completing programs administered by the College of Letters, Arts, and Social Sciences. All students graduating with majors in the College of Letters, Arts, and Social Sciences must have a 2.0 GPA in the major exclusive of any supporting courses. Students pursuing a minor in the College must have a minimum 2.0 GPA in the minor. At least twenty-five percent of the courses in the major must be taken at Eastern Kentucky University. In addition, individual programs may have specific requirements that exceed College requirements. Students should consult with an advisor or department chair to learn the particular requirements of a program.

## Affiliated Activities and Resources

### Pre-Law Advising

Mr. Dan Royalty  
[dan.royalty@eku.edu](mailto:dan.royalty@eku.edu)  
Roark 105  
(859) 622-8920

The Pre-Law Advisor assists students who are considering law school after graduation. Students interested in going to law school or exploring the possibility of doing so should contact the Pre-Law Advisor for an appointment as early as possible during their academic career, preferably during their freshman year. A Pre-Law Advisor can identify courses that will help prepare students for law school, plus provide valuable information on law schools, the Law School Admission Test (LSAT), and typical admission procedures.

There is no specific major for pre-law students. A broadly-based liberal education will best prepare one to study law, and therefore no fixed pre-law curriculum is prescribed. Law schools generally are not swayed positively or negatively by a student's choice of major; rather, they want to see that, whatever a student's major(s), that student performs well as indicated by his or her academic transcript. Thus pre-law students should choose a major that interests them and in which they are likely to be academically successful. Admission to an accredited law school is dependent upon a good undergraduate record with an earned baccalaureate degree and a competitive score on the Law School Admission Test.

### EKU's 3+3 Accelerated Law Degree Program

Students pursuing a law-school degree may complete their bachelors and Juris Doctorate (J.D.) degree requirements in 6 years rather than the traditional 7 through EKU's 3+3 Accelerated Law Degree Program with Northern Kentucky University's Salmon P. Chase College of Law (NKU Chase).

Interested students must contact the CLASS college advisor as early as possible, preferably during their freshman year, for scheduling assistance to ensure that they complete all requirements for eligibility to apply early (during their junior year) to NKU Chase. To be eligible, students can pursue any major, but must be on track to complete successfully at least 90 credits, including all courses for their selected EKU major, EKU general education, and university requirements, by the end of their third year.

In their third year, students apply for early admission to NKU Chase College of Law, and once they complete their first-year courses at Chase, they can transfer those courses back to EKU (30 hours) to complete the 120 hours required for a bachelor's degree from EKU. Students who pursue the 3+3 Accelerated Law Program and are denied early admission to NKU Chase may reapply to NKU Chase during their senior year or thereafter without prejudice to their subsequent application based on the earlier denial of admission.

For further details, contact the CLASS Pre-Law Advisor.

### Mock Trial

Mr. Thomas C. Parker, J.D., Coordinator  
[Thomas.parker@eku.edu](mailto:Thomas.parker@eku.edu)  
(859) 622-7698

EKU's nationally-ranked mock trial program affords students the chance to learn about the legal process in a simulation format. Students play the roles of witnesses and attorneys, competing against teams from

other schools in tournaments held across the nation. Mock trial develops critical thinking and communication skills, teaches students to work as members of a team, and requires students to respond creatively to unexpected challenges during rounds of competition. Students receive two hours of academic credit (POL 466A Mock Trial and POL 466B Mock Trial II) per term. Auditions for positions on the team are held each Fall.

## Education Abroad

Ms. Jennifer White, Director  
Keith 129  
(859) 622-1705

Studying abroad is the right choice for you. Eastern Kentucky University encourages all students to take advantage of education abroad opportunities and join the top 10% of American students who have an internationalized degree. The Education Abroad Office has, or will find, options of a short-term winter, summer, semester or year abroad that will fit any major/minor, country of interest and budget. The Education Abroad Office manages institutional scholarship funds that can help to bring study abroad within financial reach.

### Study Abroad

Summer, Spring break, winter break, full semester, or academic year options are available through EKU's many study abroad providers, including the Cooperative Center for Study Abroad (CCSA), the Kentucky Institute for International Studies (KIIS), the Accademia Europea di Firenze (AEF), The Knowledge Exchange Institute (KEI), AIFS Study Abroad, University Studies Abroad Consortium (USAC), CISabroad (CIS), as well as any number of EKU faculty-led programs that are created yearly. We can help find a winter, summer, semester, or year-long program for any student in any major.

### Institutional Exchanges

Exchanges allow for the most immersive experience abroad possible. EKU has a number of direct, institution-to-institution exchanges in a variety of countries. Students on these exchanges have the opportunity to use their financial aid to pay regular tuition and fees at EKU but go abroad to a partner institution where they will take classes alongside local students.

Language instruction is predominately in English on most exchange programs but opportunities to begin, or to perfect, foreign language abilities is possible through taking classes offered in the local language. Students from the partner institutions in turn come to EKU for a semester or year. For more information on exchange options as well as our direct exchange agreements, please contact the Director of Education Abroad for an appointment.

### For More Information

Feel free to visit the Education Abroad Office in Keith 129 to pick up brochures on all the programs offered. Students interested in education abroad, whether short term, semester or exchange, are encouraged to make an appointment with the Education Abroad Office at 622-8794 or [ekuabroad@eku.edu](mailto:ekuabroad@eku.edu) as soon as possible to discuss all options, application procedures, course approval, and costs.

## Department of English Chair

Dr. James Keller  
(859) 622-5861  
Mattox 101

## Faculty

S. Alexander, D. Ashby, G. Bedetti, L. Bosley, T. Butler, R. Carpenter, K. Parsons, H. Fox, L. Day, M. Frozena, A. Gossage, J. Hensley, A. Hisel, G. Hunter, N. Jensen, R. Johnson, J. Keller, J. Kohl, S. Kroeg, C. Lovin, K. McQueen, R. Milde, R. Mott, B. Mullen, G. Nachtwey, C. Neumann, J. Parrott, E. Presley, K. Rahimzadeh, C. Reece, C. Rich, B. Shannon, K. Siahkoohi, Y. Smith, S. Tsiang, C. Walz, and C. Zhang.

## Bachelor's

- English & History Teaching, Bachelor of Arts (B.A.) (p. 293)
- English & Teaching, Bachelor of Arts (B.A.) (p. 295)
- English, Bachelor of Arts (B.A.) (p. 297)

## Accelerated

- English & Writing Professions, Bachelor of Arts (B.A.) and Master of Arts (M.A.) Accelerated 3+2 Dual Degree Program (p. 296)

## Associate's

*No results were found.*

## Minor

- English, Minor (p. 298)

## Certificate

- Professional and Technical Writing, Certificate (p. 298)

## Courses

### ENG 080. Academic Reading and Writing I. (3 Credits)

A. This course emphasizes integration of skills and strategies for academic reading and writing, including comprehension, vocabulary, fluency and development, and the conventions of academic texts. Taken by referral only. 3 Lec/2 Lab.

### ENG 085. Academic Reading & Writing II. (3 Credits)

A. This course emphasizes integration of skills and strategies for academic reading and writing, including reading critically, writing analytically, and reading and writing to learn. Taken by referral only. 3 Lec/2 Lab.

### ENG 090. Basic Writing. (3 Credits)

I, II. Focuses on academic writing. Provides strategies for improving content, organization, voice, reading to write, and editing from sentences to essays. Exit exam required. ACT English subscore 14 or lower.

### ENG 090I. Basic Writing. (3 Credits)

For international students only. A remedial course in composition emphasizing selected sentence basics and fundamental rhetoric to prepare students for ENG 095I and ENG 101I. Exit exam required. Taken by referral or placement. Credit earned is institutional and cannot be used for graduation.

### ENG 095I. Developmental Composition. (3 Credits)

For international students only. An introductory course in composition emphasizing selected sentence basics and rhetoric for short essays and reports, to prepare students for ENG 101I. Exit exam required. Taken by referral or placement. Credit earned is institutional and cannot be used for graduation.

**ENG 095R. Devel Read and Writ II. (3 Credits)**

Prerequisite: ENG 090 or ACT English and Reading Sub-Scores of 16 or above. Focuses on critical reading and academic writing. Provides strategies for comprehending and analyzing source material and integrating sources with written work, with an emphasis on thesis development, organization, voice and style.

**ENG 099. Intensive Writing Review. (3 Credits)**

A. An intensive review of writing skills with special emphasis on audience analysis, invention of ideas, composing, writing, and editing strategies for the production of a substantial portfolio. Taken only by recommendation of college dean. Institutional credit when exit level attained; cannot be used for graduation.

**ENG 100. English for Non- Native Speakers. (3 Credits)**

A. Review and practice of English for non-native speakers. Review of English grammar with intensive practice of academic language skills in listening, speaking, reading, and writing. Required of non-native speakers on basis of department placement exam. 2 Lec/2 Lab.

**ENG 101. Reading, Writing, and Rhetoric. (3 Credits)**

(3) I, II. Prerequisite: ENG 090 or an ACT subscore of 18 or higher ACT English subscore of 18 or higher and ACT Reading subscore of 20; or SAT writing score of 430 or higher and SAT reading score of 470 or higher; or SAT Evidence-Based Reading & Writing score of score of 480 or higher. A writing course developing critical reading skills which integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for different audiences. Credit will not be awarded to students who have credit for ENG 101R. Gen. Ed. E-1A [WC].

**ENG 101R. Reading, Writing, and Rhetoric. (4 Credits)**

(3) I, II. Prerequisite: SAT Evidence-Based Reading & Writing score of 430–479, or ACT score of 14-17 on English and 14-19 on Reading. Additionally, students with an English ACT score of 18 or higher will be placed in ENG 101R if their ACT Reading Score is 14-19. A writing course developing critical reading skills while integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for different audiences. Students are required to meet 1 hour per week outside of class time with a Course Embedded Consultant. Students must pass ENG101R with an A to move into ENG102; students passing ENG101R with a B or C must enroll in ENG102R. Students who fail the class will retake ENG 101R. Credit will not be awarded to students who have credit for ENG 101. General Education Element 1A [WC].

**ENG 101RZ. Rding Wrting & Rhtrc Support. (4 Credits)**

(3) I, II. Prerequisite: ACT score of 17 on English and 17-19 on Reading. Additionally, students with an ACT score of 18 or higher will be placed in ENG 101R if their ACT Reading Score is 15-19. A writing course developing critical reading skills while integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for different audiences. Students who fail the class will retake ENG 101R. Credit will not be awarded to students who have credit for ENG 101. General Education Element 1A.

**ENG 101Z. Reading, Writing, & Rhetoric. (3 Credits)**

(3) I, II. A writing course developing critical reading skills which integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for different audiences. Gen. Ed. E-1A; Gen. Ed. IA [WC].

**ENG 102. Research, Writing, and Rhetoric. (3 Credits)**

(3) I, II. Prerequisite: ENG 101 (C) or ENG 101R (A). A writing course refining component of ENG 101/101R studying information sources and research methods; accessing, critically reading, evaluating, integrating, and documenting primary and secondary sources; utilizing information technology for inquiry, analysis, and argumentation. Credit will not be awarded for both ENG 102 and ENG 102R. Gen. Ed. E-1B [WC].

**ENG 102R. Research, Writing, and Rhetoric. (4 Credits)**

(4) I, II. Prerequisite: ENG 101R (C). A writing course refining components of ENG 101R studying information sources and research methods; accessing, critically reading, evaluating, integrating, and documenting primary and secondary sources; utilizing information technology for inquiry, analysis, and argumentation. Students are required to meet 1 hour per week outside of class time with a Course Embedded Consultant. Students who fail the class will retake ENG 102R or ENG 102RZ. Credit will not be awarded to students who have credit for ENG 102. Gen. Ed. E-1B [WG].

**ENG 102RZ. Resrch, Writg, & Rhetoric Supp. (4 Credits)**

(4) I, II. Prerequisite: ENG 101R (C). A writing course refining components of ENG 101R studying information sources and research methods; accessing, critically reading, evaluating, integrating, and documenting primary and secondary sources; utilizing information technology for inquiry, analysis, and argumentation. Students are required to meet 1 hour per week outside of class time with a Course Embedded Consultant. Students who fail the class will retake ENG 102R. Credit will not be awarded to students who have credit for ENG 102 or ENG 102R. Gen. Ed. E-1B [WG].

**ENG 105. First Year Writing Seminar. (3,6 Credits)**

I, II. Prerequisite: ACT English subscore of 28 or SAT verbal score of 660 or above. Accelerated writing course emphasizing critical reading and rhetorical approaches for various purposes and audiences. Students will access, evaluate, integrate, and document primary and secondary sources while utilizing information technology for inquiry, analysis, and argumentation. Proficiency exam required. Students graded "A" or "B" will receive six hours credit for ENG 105; students with "C" or "D" will receive three hours credit for ENG 105 and must take ENG 102. Gen. Ed. Element 1A; Gen. Ed. IA (IB) [WC].

**ENG 106. Writing Workshop:\_\_\_\_\_. (1 Credit)**

I, II. Prerequisite: ENG 101, 101R, 105, or departmental approval. A course intended to develop writing abilities through practice in writing processes for varied topics; reading and discussion of rhetoric, grammar, etc. appropriate for the selected topic. Primarily individualized instruction in workshop conditions. May be retaken with different topics to a maximum of three credit hours.

**ENG 110. Introduction to Literature. (3 Credits)**

I, II. Prerequisite: completion of developmental reading and writing requirements. Developing reading strategies to better engage with and appreciate a range of literacy texts from a variety of cultures and historical periods. Gen-Ed. E-3B [AH].

**ENG 200. Topics in English:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Introduction to areas of literature, writing, and language use through selected topics. Designed primarily for non-English majors; may be retaken with different topics to a maximum of six hours.

**ENG 208W. Literature and the Environment. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Writing-intensive study of the human-environmental connection as expressed in literature, including attention to environmental sustainability and personal responsibility to the natural world within larger social and ethical values. Credit will not be awarded for both ENG 208W and ENV 208W. Gen Ed. Element 3B.

**ENG 210. Enjoying Literature. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. Understanding and enjoying the distinctive aesthetic qualities, forms and meanings of literary works within ethical and cultural contexts. Credit will not be awarded to students who have credit for ENG 210W. Gen. Ed. Element 3B.

**ENG 210W. Enjoying Literature. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. Understanding and enjoying the distinctive aesthetic qualities, forms and meanings of literary works within ethical and cultural contexts. Credit will not be awarded to students who have received credit for ENG 210. Gen. Ed. Element 3B.

**ENG 211. Survey of World Literature I. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. Selected readings from masterpieces of world literature from ancient times through the Renaissance. Credit not awarded for students with credit for ENG 211W. Gen. Ed. Element 3B.

**ENG 211W. Survey of World Literature I. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. Selected readings from masterpieces of world literature from ancient times through the Renaissance. Credit not awarded for students with credit for ENG 211. Gen. Ed. Element 3B.

**ENG 212. Survey of World Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. Selected readings from masterpieces of world literature from the 17th century to the present. Credit will not be awarded to students who have credit for ENG 210W. Gen. Ed. Element 3B.

**ENG 212W. Survey of World Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. Selected readings from masterpieces of world literature from the 17th century to the present. Credit will not be awarded to students who have received credit for ENG 212. Gen. Ed. Element 3B.

**ENG 242. Introduction to a Genre:\_\_\_\_\_. (2 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Readings in either the novel, poetry, or short story; special emphasis on understanding and enjoying the literature. Designed primarily for non-English majors; may be retaken with different topics to a maximum of six hours.

**ENG 299W. Research in History & English. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or 105 (B) or HON 102. Cross listed with HIS 299W. Collaboration focusing on disciplinary research methodology and recognizing disciplinary differences in approach by exploring a particular theme from various perspectives. Information literacy, reflection, research, and writing emphasized. This course will not be accepted for History or English non-teaching or teaching major requirements. May be retaken for a maximum of 6 credits, provided the topic differs each time. Credit will not be awarded for both ENG 299W and HIS 299W.

**ENG 300. Introduction to Technical and Professional Writing. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Introductory course in principles of effective writing for professions and technical fields. Experience in writing with technology for various purposes and audiences relevant to students' career interests. Special sections arranged in cooperation with professional programs. Credit will not be awarded for both ENG 300 and 300S.

**ENG 300S. Intro to Tech/Prof Writing. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. Introductory course in principles of effective writing for professions and technical fields. Experience in writing with technology for various purposes and audiences relevant to students' career interests. Students will work on writing projects with schools or other non-profit organizations. Credit will not be awarded for both ENG 300 and ENG 300S.

**ENG 301. Advanced Composition. (3 Credits)**

I, II. Prerequisites: ENG 102 or 105 or HON 102. Refinement of writing skills; application of rhetoric in expository and argumentative writings; planning and writing a research paper.

**ENG 302. Principles of Literary Study. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. Introduction to the genres of poetry, short fiction, and drama, as well as to the traditional literary devices, the major critical approaches, and several bibliographical tools.

**ENG 303. Advanced Composition for Teachers. (3 Credits)**

I, II. Prerequisites: ENG 101 and 102 (or 105). Develops students as writers and as teachers of writing through experiences in writing workshop, portfolio assessment, teaching strategies for writing, and career-oriented inquiry in theoretical context. Credit will not be awarded to students who have credit for ENG 301.

**ENG 306. Introduction to Creative Writing. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Introduction to fundamentals of short story, poetry, play, or personal essay writing.

**ENG 308. Autobiographical Literature. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Discussion of American, British, Continental, and non-Western autobiographies and modern theories of autobiographical writing.

**ENG 310. Introduction to English Studies. (3 Credits)**

Prerequisites: ENG 102 or 105 (B) or HON 102. Introduces students to broad areas of English as a discipline; literature; composition and rhetoric, creative writing, and technical writing. Course will culminate in a final research project. Credit will not be awarded to students who have credit for ENG 302.

**ENG 311. Early British Literature Survey. (3 Credits)**

Prerequisites: ENG 102 or 105 (B) or HON 102. A study of selected significant texts, genres, historical trends, and cultural influences in British literature from its beginnings to the 17th century. Credits will not be awarded to students who have credit for ENG 352.

**ENG 312. British and American Literature Survey I. (3 Credits)**

Prerequisites: ENG 102 or 105 (B) or HON 102. A study of selected significant texts, genres, historical trends, and cultural influences in British and U.S. literature in English from the 17th to the 19th centuries.

**ENG 313. British and American Literature II. (3 Credits)**

Prerequisites: ENG 102 or ENG 105 (B), or HON 102. A study of selected significant texts, genres, historical trends, and cultural influences in British and U.S. literature in English from the 19th century to the present.

**ENG 334. Modern Poetry. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Survey of representative British and American poets from Hopkins and Dickinson to the present.

**ENG 335. Modern Drama. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of representative modern plays from Ibsen to the present. Gen. Ed. IIIA or VII (AH). Credit will not be awarded for both ENG 335 and ENG 335W. Gen. Ed Element 3A.

**ENG 335W. Modern Drama. (3 Credits)**

(3). Prerequisite: ENG 102 or 105 (B) or HON 102. Study of representative modern plays from Ibsen to the present. Gen. Ed. Element 3A. Credit will not be awarded for both ENG 335W and ENG 335.

**ENG 337. The Bible as Literature. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of selected stories and poetry from the Bible from distinctly literary perspectives.

**ENG 340. Mythology. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Study of selected myths through historical, psychological, and literary approaches.

**ENG 343. Science Fiction. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. A survey of science fiction from Mary Shelley to the present.

**ENG 344. Mystery and Detective Fiction. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. History of mystery and detective fiction. Study of the genre's basic characteristics as well as its cultural ramifications.

**ENG 345. Literature and Film. (3 Credits)**

A. Cross listed as COM 345. Prerequisite: ENG 102 or 105 or HON 102. An examination of the relationship between film and literature through a comparative study of the stylistic and technical elements of the two media. Credit will not be awarded to students who have credit for COM 345.

**ENG 346. Fantasy Literature. (3 Credits)**

(3) A. Prerequisite: ENG 102, 105(B), or HON 102. A study of selected works of fantasy from the nineteenth century to the present. May include study of subgenres such as *kunstmärchen*, epic fantasy, "weird" fiction, dark fantasy/horror and magical realism.

**ENG 347. Special Studies in English:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Specialized study of selected topics not available in more traditional course offerings. Designed primarily for English majors/minors. May be retaken with different topics to a maximum of six hours.

**ENG 349. Applied Learning in English. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**ENG 349A. Cooperative Study: English. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**ENG 349B. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349C. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349D. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349E. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349F. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349G. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349H. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 350. American Literature I. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. A study of selected works by representative authors reflecting the chronological development of American literature from its beginnings to 1865.

**ENG 351. American Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. A study of selected works by representative authors reflecting the chronological development of American literature from 1865 to the present. Credit will not be awarded to students who have credit for ENG 351W.

**ENG 351W. American Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. A study of selected works by representative authors reflecting the chronological development of American literature from 1865 to the present. Credit not awarded for students with credit for ENG 351.

**ENG 352. English Literature I. (3 Credits)**

I. Prerequisite: ENG 102 or 105 or HON 102. A study of selected works by representative authors reflecting the chronological development of English literature from its beginnings through the eighteenth century.

**ENG 353. English Literature II. (3 Credits)**

II. Prerequisite: ENG 102 or 105 or HON 102. A study of selected works by representative authors reflecting the chronological development of English literature from the Romantic period to the present. Credit will not be awarded to students who have credit for ENG 353W.

**ENG 353W. English Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. A study of selected works by representative authors reflecting the chronological development of English literature from the Romantic period to the present. Credit will not be awarded to students who have credit for ENG 353.

**ENG 359. Kentucky Literature. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Study of Kentucky's literary tradition from its beginning to the present; emphasis on Elizabeth Madox Roberts, Allen Tate, Harriet Arnow, and Robert Penn Warren.

**ENG 360. Literatures of Africa. (3 Credits)**

A. Cross listed as AFA 360. Prerequisite: ENG 102, 105 (B), or HON 102. Survey of the genres and components of African literature, oral and written; study of how key concepts in African thought, culture and experiences are reflected in the literatures composed by writers from Africa or of African origin. Credit will not be awarded to students who have credit for AFA 360. Gen. Ed. Element 6.

**ENG 361. African-American Literature. (3 Credits)**

A. Cross listed as AFA 361. Prerequisite: ENG 102, 105 (B), or HON 102. Survey of selected works of African-American literary traditions. Credit will not be awarded to students who have credit for AFA 361 or ENG 342. Gen. Ed. Element 6.

**ENG 362. North American Native Literature. (3 Credits)**

A. Prerequisite: ENG 102, 105 (B), or HON 102. A study of representative literature written by North American Native authors. Gen. Ed. Element 6.

**ENG 363. Latin American/Latino Literature. (3 Credits)**

A. Prerequisites: ENG 102 or ENG 102R or 105 (B) or HON 102. Survey of Latin American literature in translation and selected works by Latina/o writers.

**ENG 364. Women's Literature. (3 Credits)**

A. Cross listed as WGS 364. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of selected literature by women writers from varying cultures, genres, and periods. Credit will not be awarded to students who have credit for WGS 364 or ENG 535. Gen. Ed. Element 6.

**ENG 365. Appalachian Literature. (3 Credits)**

(3) I. Cross-listed as APP 365. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of selected Appalachian artists, with emphasis on interdisciplinary, cultural, and aesthetic concerns raised in works by writers such as Arnow, Berry and Still. Credit will not be awarded to students who have credit for : ENG 365W, APP 365, or APP 365W. Gen. Ed. Element 3B and 6.

**ENG 365W. Appalachian Literature. (3 Credits)**

Cross-listed as APP 365W. Prerequisite: ENG 102 or 105(B) or HON 102. Writing-intensive study of selected Appalachian artists, with emphasis on interdisciplinary, cultural, and aesthetic concerns raised in works by writers such as Arnow, Berry, and Still. Credit will not be awarded to students who have credit for ENG 365, APP 365 or APP 365W. Gen. Ed. Element 3B and 6.

**ENG 366. Queer Theory and Literatures. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Examination of trends in Queer Theory; study of major contributors to the field such as Foucault, Butler, and Sedgwick; application of theoretical models to literary and cinematic texts. Gen. Ed. Element 6.

**ENG 367. African Caribbean Literatures. (3 Credits)**

A. Cross listed as AFA 367. Prerequisites: ENG 102 or 105 (B) or HON 102. A study of selected literatures written by Caribbean writers of African descent. Credit will not be awarded for both AFA 367 and ENG 367.

**ENG 374. Shakespeare at War. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. An exploration of the causes and consequences of war in a selection of Shakespeare's plays. Students will also examine how political power is gained, kept, and lost through warfare in these plays.

**ENG 386W. War & Peace in Lit Since 1900. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. An exploration of themes of war and peace in literature since 1900, structured chronologically, beginning with World War I and moving into the contemporary world.

**ENG 400. Advanced Technical Writing and Document Production. (3 Credits)**

A. Prerequisites: ENG 102 or 105 or HON 102; ENG 300. Advanced in technical communication. Emphasis on theories of technical writing and writing with technology, document development using electronic literacies.

**ENG 402. Crit. Theory & Research Meth. (3 Credits)**

A. Prerequisite: ENG 310. Introduction to literary/critical theory with an historical framework, and to research methods for the academic professional. Particularly recommended for students planning to go on to graduate school.

**ENG 405. Introduction to Composition. (3 Credits)**

A. Prerequisite: ENG 310. An introductory course surveying theories of composition and applying these theories to the instruction of composition.

**ENG 406. Topics in Creative Writing:\_\_. (3 Credits)**

A. Prerequisite: ENG 306. Specialized study of a selected genre (e.g., poetry, short story, screenplay) or approach to creative writing. Theory and practice. May be retaken to a maximum of nine hours provided each topic is different.

**ENG 407. Poetry Writing Workshop. (3 Credits)**

A. Prerequisite: ENG 306. Advanced study in the techniques of writing poetry.

**ENG 408. Advanced Fiction Workshop. (3 Credits)**

A. Prerequisite: ENG 306. Advanced writing workshop in fiction, with supplementary reading in genre. Weekly writing and critiques of student work. Analysis of the writing market.

**ENG 409. Creative Nonfiction Workshop. (3 Credits)**

A. Prerequisite: ENG 306 or departmental approval. Theory, models, and advanced practice in such areas as autobiographical writing, the personal essay, on assignment, research projects, and interviewing techniques.

**ENG 410. Grammar, Traditional and Modern. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Grammatical structure of American English and present-day terminology used to describe that structure; analysis of the linguistic and grammatical theories underlying contemporary grammar texts.

**ENG 420. Stylistics, Editing, Publishing. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Development of prose style through analysis, practice, and editing. Fundamentals of online and hard-copy publishing, including surveying the markets, and preparing and submitting manuscripts.

**ENG 430. Dramatic Literature. (3 Credits)**

A. Cross listed as THE 430. Prerequisite: ENG 310 or departmental approval. Survey of the major periods and genres of world dramatic literature, from the Greeks to the present; selected readings from the major playwrights, critics, and theorists. Credit will not be awarded to students who have credit for THE 430.

**ENG 440. Young Adult Literature. (3 Credits)**

A. Prerequisite: ENG 310 departmental approval. A survey of literature for young adults intended for Secondary English Teaching majors. Critical approaches will be applied to contemporary and significant early texts. Pedagogical approaches will be modeled.

**ENG 452. American Romanticism. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of the 19th century Romantic movement, concentrating on selected major authors through Whitman.

**ENG 454. American Realism. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of the American Realistic movement from the late nineteenth century through the 20th century, concentrating upon selected major authors from Twain to the present.

**ENG 455. American Fiction Since 1900. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Survey of representative American novels and short stories of the 20th century.

**ENG 470. Chaucer and His Age. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of selections from Chaucer, the Pearl poet, Langland, Malory, medieval drama, and lyrics.

**ENG 472. Renaissance Literature. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of Tudor poetry and prose and Elizabethan and early Stuart drama, exclusive of Shakespeare.

**ENG 474. Shakespeare. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Study of Elizabethan England as a background for Shakespeare's works; extensive reading of several plays; intensive reading of selected drama and poetry.

**ENG 476. Milton and His Age. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of Milton's works, Cavalier and Metaphysical Poetry, the masque, and prose of the period.

**ENG 478. Restoration and Eighteenth Century Literature. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. British poetry, prose, and drama of the Restoration and 18th century with emphasis on Dryden, Swift, Pope, and Johnson.

**ENG 480. Romantic Literature. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Survey of British poetry, essays, and fiction of the Romantic period.

**ENG 482. Victorian Literature. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Survey of British poetry, essays, and fiction of the Victorian period.

**ENG 485. British Fiction Since 1900. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Survey of representative British novels and short stories of the twentieth and the twenty-first centuries.

**ENG 490. Creative Writing Capstone. (3 Credits)**

I, II. Prerequisites: ENG 306 and at least 3 hours from the following courses: ENG 406, 407, 408, 409, 502, 503, 504. Portfolio creation, assessment, and career guidance.

**ENG 491. Technical Writing Capstone. (3 Credits)**

I, II. Prerequisites: ENG 300 and junior status. Provides professional technical writing experience by placing students in appropriate positions with area businesses and industries.

**ENG 492. English Literature Capstone. (3 Credits)**

A. Prerequisites: senior status. A review of literary figures, periods, and concepts. Study of techniques of literary criticism and/or theory, Major revision of an analytical paper. Discussion of graduate school and career options in the major.

**ENG 495. Independent Study. (1-3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Individual study and/or research on a problem pertaining to literature or language. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ENG 499. Senior Capstone Experience. (1 Credit)**

A. Prerequisites: senior status and departmental approval. A service learning project within the University community for all English majors, involving planning and participating in the Association of English Majors Annual Conference, and reflecting on that professional experience.

**ENG 500. Topics in Professional Writing:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 310 and one additional upper level ENG course; or departmental approval. Familiarizes students with visual communication as applied in popular culture, business, science, and technology. Students learn visual design principles, and apply them by creating a variety of visual projects, from icons to infographics.

**ENG 502. Advanced Creative Writing. (3 Credits)**

A. Prerequisites: ENG 306. Special topics and workshop course for advanced or specialty genres and for students who desire to have their manuscripts critiqued. Guest lectures by and discussion with writers in residence. May be taken with different topics for a maximum of six hours.

**ENG 503. Creative Writing Workshop. (3 Credits)**

SUMMER ONLY. A. Prerequisites: ENG 306 or departmental approval. Held in conjunction with Bluegrass Writers Studio's eight-day summer residency on EKV-Richmond campus, followed by asynchronous online work. Includes craft lectures, panels, and readings by visiting writers. Students must submit an original creative writing manuscript before the residency.

**ENG 510. Introduction to Linguistic Theory. (3 Credits)**

A. Prerequisites: ENG 102 or 105 or HON 102, and one additional ENG course. An introduction to current linguistic theory and practice.

**ENG 515. English as a Second Language. (3 Credits)**

A. Prerequisites: ENG 102 or 105(B) or HON 102; or departmental approval. Study of theories advanced to explain the learning of English as a second language.

**ENG 520. History of the English Language. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or 105 or HON 102, and one additional upper level ENG course. Study of the history of the English language in terms of social, historical, and linguistic forces from which it developed into modern English, with an emphasis on English in contemporary contexts.

**ENG 530. Topics in a Genre:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 310 and one additional upper level literature course; or departmental approval. Study of a particular genre or comparison of related genres. These can include traditional literary genres contemporary popular literature genre genres; or digital multimodal genres. May be retaken with different topics to a maximum of six hours.

**ENG 550. Topics in Literature:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 310 and one additional upper level literature course or departmental approval. An intensive study of a particular aspect of textual production, transmission, or reception such as a movement, an author, historical contexts, or contemporary directions/experiments. May be retaken with a different topic to a maximum of six hours.

## English & History Teaching, Bachelor of Arts (B.A.)

Upon successful completion of this program, graduates will be able to

1. demonstrate knowledge of English content areas: literature, language, and composition;
2. demonstrate knowledge of U.S. history, European history, and selected aspects of non-Western history;
3. demonstrate their ability to communicate effectively in oral and written form;
4. demonstrate the ability to analyze texts, including primary and secondary sources, and to produce texts; and
5. execute a major research project using both primary and secondary sources.

The English & History/Teaching B. A. is designed for those who wish to pursue careers in secondary English and social studies teaching. Offered in cooperation with the EKV College of Education, the program includes secondary teaching certification in both English and social studies. Refer to the College of Education section of this catalog for teacher certification requirements associated with this degree program.

Upon completion of an English and History Teaching degree, graduates will:

1. Synthesize disciplinary content knowledge and methodologies from English and history to teach English and social studies in the secondary classroom (grades 8-12)
2. Qualify to apply for a Kentucky professional teaching license in secondary English and Social Studies

## Program Requirements

CIP Code: 13.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Orientation Course (waived for this major)	0
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT - English & History Teaching majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
CED 499	Clinical VI: The Professional Semester	
<b>Major Requirements</b>		
<i>Core Courses</i>		
ENG 303	Advanced Composition for Teachers	3
ENG 312	British and American Literature Survey I	3
ENG 313	British and American Literature II	3
ENG 405	Introduction to Composition	3
ENG 410	Grammar, Traditional and Modern	3
ENG 440	Young Adult Literature	3

ENG 452	American Romanticism	3
or ENG 454	American Realism	
or ENG 455	American Fiction Since 1900	
ENG 474	Shakespeare	3
ENG 310	Introduction to English Studies	3
or HIS 290	Historical Research and Methods	
HIS 302A	Research Topics in History:___	3
or HIS 302B	Research Topics in History:___	
or HIS 302C	Research Topics in History:___	

#### HIS Areas

<b>HIS Area I-U.S.:</b>		
Choose from one of the following:		3
HIS 300A	Topics in U.S. History:___	
HIS 302A	Research Topics in History:___	
HIS 303	Women in American History	
HIS 304	Slavery in the Americas	
HIS 305	African-American History	
HIS 307	Religion in American History	
HIS 309	Native Americans since 1830	
HIS 312A	Independent Study in History:___	
HIS 319	Topics in 20th Century U.S. History:___	
HIS 401	American Colonial Period	
HIS 402	Revolutionary America	
HIS 405	America's Westward Expansion	
HIS 413	Cold War U.S., 1945-1991	
HIS 416	Kentucky History	
HIS 420	Appalachia in U.S. History	
HIS 424	Civil War and Reconstruction	
HIS 435	U.S. Civil Rights Movement	

#### HIS Area II-Europe:

Choose from one of the following:		3
HIS 300B	Topics in European History	
HIS 302B	Research Topics in History:___	
HIS 310	History of Science	
HIS 312B	Independent Study in History:___	
HIS 336	Greco-Roman Civilization	
HIS 339	The Dark Ages Illuminated	
HIS 343	The Renaissance & Reformation	
HIS 351	Topics in English History:___	
HIS 359	Topics in Modern European History:___	
HIS 361	Topics in the History of Eurasia:___	
HIS 365	Russia-Revolution & Reform	

#### HIS Area III-Non-Western:

Choose from one of the following:		3
HIS 300C	Topics in Non-Western History:___	
HIS 302C	Research Topics in History:___	
HIS 308	Native Americans to 1830	
HIS 312C	Independent Study in History:___	
HIS 321	Islamic Societies to 1800	
HIS 322	History of the Modern Middle East	
HIS 324	Iran- State, Religion & Society	
HIS 331	Topics in Ancient Egypt/Near Eastern History:___	

HIS 370	World History Since 1945	
HIS 374	East Asian History to 1600	
HIS 376	Japan-Samurai to Superpower	
HIS 379	China- Empire and Revolution	
HIS 384	Modern Latin America Modern Latin America	
HIS 385	Early African History	
HIS 386	Modern African History	

*Supporting Course Requirements*

ANT 120	Introduction to Cultural Anthropology	3
or SOC 131	Introductory Sociology	
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
ENG 211	Survey of World Literature I (Element 3B) <sup>G</sup>	
ENG 335	Modern Drama (Element 3A) <sup>G</sup>	

Choose from one of the following:

ENG 361	African-American Literature (Element 6) <sup>G</sup>	
ENG 362	North American Native Literature (Element 6) <sup>G</sup>	
ENG 364	Women's Literature (Element 6) <sup>G</sup>	
ENG 365W	Appalachian Literature (Element 6) <sup>G</sup>	
ENG 366	Queer Theory and Literatures (Element 6) <sup>G</sup>	
GEO 210	Introduction to Physical Geography (Element 4) <sup>G</sup>	
HIS 101	World Topics Since 1500:___	3
HIS 102	American Civilization to 1877	3
HIS 103	American Civilization Since 1877	3
MAT 105	Mathematics with Applications (or higher) (Element 2) <sup>G</sup>	
or STA 215	Introduction to Statistical Reasoning	
POL 101	Introduction to American Government (Element 5A) <sup>G</sup>	
POL 212	Introduction to Comparative Politics	3
or POL 220	Introduction to World Politics	

*Professional Education Requirements*

EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3
EMS 474	Disciplinary Literacy	3
ESE 543	Teaching of Language Arts in the Secondary School	3
ESE 549	Teaching Social Studies in the Secondary School	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	

*Clinical Experiences:*

CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0.5
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9

*Exit Requirements*

PRAXIS Examination		
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Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. The PRAXIS exam must be taken prior to student teaching.

<b>Total Hours</b>	<b>127.5</b>
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**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**PRAXIS Disclaimer:** Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Educator Preparation, Assessment, and Internship at (502) 564-5789.

## English & Teaching, Bachelor of Arts (B.A.)

Upon completion of an English/Teaching degree, graduates will:

1. demonstrate the ability to analyze and produce texts;
2. demonstrate knowledge of English content areas: literature, language, and composition;
3. demonstrate competency in composing expository essays.

### Program Requirements

CIP Code: 13.1305

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36

<i>Student Success Seminar</i>		
Orientation Course (waived for transfers with 30+ hrs.)		1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - English Teaching majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
CED 499	Clinical VI: The Professional Semester	
<b>Major Requirements</b>		
<i>Core Courses</i>		
ENG 303	Advanced Composition for Teachers	3
ENG 310	Introduction to English Studies	3
ENG 311	Early British Literature Survey	3
ENG 312	British and American Literature Survey I	3
ENG 313	British and American Literature II	3
ENG 405	Introduction to Composition	3
ENG 410	Grammar, Traditional and Modern	3
ENG 510	Introduction to Linguistic Theory	3
ENG 440	Young Adult Literature	3
ENG 474	Shakespeare	3
<i>English Electives</i>		
American Literature:		
ENG 452	American Romanticism	3
or ENG 454	American Realism	
or ENG 455	American Fiction Since 1900	
British Literature:		
Choose from one of the following:		3
ENG 470	Chaucer and His Age	
ENG 472	Renaissance Literature	
ENG 476	Milton and His Age	
ENG 478	Restoration and Eighteenth Century Literature	
ENG 480	Romantic Literature	
ENG 482	Victorian Literature	
ENG 485	British Fiction Since 1900	
Diversity:		
Choose from one of the following:		3
ENG 360	Literatures of Africa	
ENG 361	African-American Literature	
ENG 362	North American Native Literature	
ENG 363	Latin American/Latino Literature	
ENG 364	Women's Literature	
ENG 366	Queer Theory and Literatures	
ENG 367	African Caribbean Literatures	
<i>Supporting Course Requirements</i>		
HIS 102	American Civilization to 1877 (Element 5A) <sup>G</sup>	
or HIS 103	American Civilization Since 1877	
<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3

EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	3
ESE 543	Teaching of Language Arts in the Secondary School	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>Free Electives</i>		
Choose from seven hours of free electives		7
<i>Exit Requirements</i>		
PRAXIS Examination		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>120</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

Candidates earning a degree that leads to teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year ([www.ets.org/praxis](http://www.ets.org/praxis) (<http://www.ets.org/praxis/>)). Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the optimal time to take required exams.

## English & Writing Professions, Bachelor of Arts (B.A.) and Master of Arts (M.A.) Accelerated 3+2 Dual Degree Program

Students accepted to the 3+2 Accelerated Dual Degree Option are able to complete their B.A. degree and M.A. degree within 5 calendar years because up to 9 semester hours of graduate-level coursework will apply to both the undergraduate B.A. degree and the graduate M.A. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required.

### Admission Requirements

Entrance requirements for the 3 + 2 adhere to the requirements for the M.A. English Program in the Graduate Catalog. Students admitted

into the program will remain coded as undergraduate until fulfilling their BA requirements. Students admitted into the 3+2 program must complete the English BA degree with a minimum 3.0 GPA to be allowed to proceed on with graduate program coursework. Students must fulfill all graduation requirements listed below.

Students may apply to the Graduate School for admission to the 3+2 program in their junior or senior year. Approval of both the department and Graduate School is required (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>)).

### English Program Special Admission Requirements

ENG 310 Introduction to English Studies and overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program.

### Teaching English as a Second Language Endorsement Admission Requirements

Please refer to the College of Education Endorsement section of the Catalog.

## Program Requirements

CIP Code: 13.1305

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - English majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
ENG 490	Creative Writing Capstone	
or ENG 491	Technical Writing Capstone	
or ENG 492	English Literature Capstone	

### Major Requirements

<i>Core Courses</i>		
ENG 310	Introduction to English Studies	3
ENG 311	Early British Literature Survey	3
ENG 312	British and American Literature Survey I	3
ENG 313	British and American Literature II	3
ENG 410	Grammar, Traditional and Modern	3
ENG 474	Shakespeare	3
ENG 490	Creative Writing Capstone	3
or ENG 491	Technical Writing Capstone	
or ENG 492	English Literature Capstone	
ENG 801	Introduction to Graduate Study	3
ENG 808	Studies in Modern Composition	3
ENG 814	Writing Across the Curriculum	3

<i>English Electives</i>		
	Choose from 18 hours of ENG courses at 300 level or above, including at least nine hours at the 400 or 500 level	18
<i>Free Electives</i>		
	Choose from 35 hours of free electives	35
<b>Total Hours</b>		<b>120</b>

### English, Master of Arts with a Concentration in Generalist (M.A.)

See English, Master of Arts with a Concentration in Generalist (M.A.) (p. 761)

### English, Master of Arts with a Concentration in Literature (M.A.)

See English, Master of Arts with a Concentration in Literature (M.A.) (p. 763)

### English, Master of Arts with a Concentration in Rhetoric and Composition (M.A.)

See English, Master of Arts with a Concentration in Rhetoric and Composition (M.A.) (p. 764)

## English, Bachelor of Arts (B.A.)

Upon completion of an English degree, graduates will demonstrate a broad awareness of the scope of English Studies, while also gaining knowledge and competency in one of three sub-disciplines. Students focusing on literature will:

1. demonstrate a clear sense of the chronological and thematic development of British and American literature, familiarity with canonical writers and works of the age, and a more specialized knowledge in various genres, periods, authors, and literary trends;
2. be prepared for post-baccalaureate professional lives;

- demonstrate the ability to think, speak, and write more effectively as literary critics.

Students focusing on creative writing will:

- write a publishable work, critical or creative, and submit it through traditional means/e-submissions;
- possess knowledge of appropriate writers, the history, pedagogies/theories/genres,
- possess knowledge of and apply basic research methods in their works, creative or critical, as well as use these skills to research the literary/popular marketplace.

Students focusing on technical writing will:

- produce various types of technical documents required in the workplace that reflect knowledge of audience, purpose, clarity, and precision;
- demonstrate competence with hardware/software expected of technical/professional writers.

## Program Requirements

CIP Code: 23.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Orientation Course (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/ Supporting/ Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)	

ACCT - English majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

ENG 490	Creative Writing Capstone
or ENG 491	Technical Writing Capstone
or ENG 492	English Literature Capstone

### Major Requirements

#### Core Courses

ENG 310	Introduction to English Studies	3
ENG 311	Early British Literature Survey	3
ENG 312	British and American Literature Survey I	3
ENG 313	British and American Literature II	3
ENG 410	Grammar, Traditional and Modern	3
ENG 474	Shakespeare	3
ENG 490	Creative Writing Capstone	3
or ENG 491	Technical Writing Capstone	
or ENG 492	English Literature Capstone	

#### English Electives

Choose from 18 hours of ENG courses at the 300 level or above, including at least nine hours at the 400 or 500 level

#### Free Electives

Choose from 44 hours of free electives

**Total Hours** **120**

## English, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
ENG 310	Introduction to English Studies	3
Choose from at least 15 additional hours at the 300 level or above in literature and/or writing courses		15
<b>Total Hours</b>		<b>18</b>

## Professional and Technical Writing, Certificate

The Certificate in Professional and Technical Writing (CPTW) is designed for two primary groups:

- Current EKU students from a wide variety of majors (e.g., the Sciences, Engineering, the Humanities, etc.) who wish to improve their writing and communication skills and improve their job prospects.
- Non degree-seeking business people from the region who want to improve their writing and communication skills and/or document those skills (in Certificate form) for present/future employers.

With an emphasis on improving their writing, students pursuing a CPTW will learn how to communicate effectively – using text, speech, visual design, and interactive theory – in several multimedia formats, for technical, professional, and general audiences in regional, national, and international contexts. Upon completion of the CPTW, students will have learned first how to effectively gather, organize, and analyze pertinent information for a professional project, and then how to compose, revise, and present the results to the intended audiences across all industries.

## Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
ENG 300	Introduction to Technical and Professional Writing	3
ENG 400	Advanced Technical Writing and Document Production	3
ENG 500	Topics in Professional Writing:___	3
BEM 202	Information Gathering	3
BEM 203	introduction to Media Writing	3
CCT 310	International Business Communication	3
<b>Total Hours</b>		<b>18</b>

## Department of Government

### Chair

Prof. Lynnette Noblitt  
(859) 622-5931  
Beckham 100

### Faculty

S. Barracca, A. Cizmar, Howell, K. Kalkan, J. Kim, P. Litanga, Y. Ma, L. Noblitt, T. Parker, J. Pennington, R. Swain.

## Paralegal Program

The paralegal programs offer a Bachelor of Arts degree and Post-Baccalaureate Certificate in paralegal science and an associate of arts degree in paralegal studies. The objectives of the programs are:

1. Critical Reading/Thinking Skills: Students will read and understand legally-related readings to apply information from those readings to solve problems and complete tasks using metacognitive strategies.
2. Communication: Students will be able to communicate in writing about the law in a manner characterized by proper, clear, and concise grammar, accuracy of material; effective organization of material, and adequate substantiation of conclusions/recommendations.
3. Professional Competence: Students will be able to perform paralegal-level tasks competently for employers based upon the coursework the student completed in the Paralegal Program.

Paralegals are paraprofessionals who must work under the supervision of an attorney. The laws of Kentucky and other states prohibit paralegals from engaging in the practice of law or providing legal services directly to the public, except as permitted by law. Therefore, completion of a major, minor, or certificate in Paralegal Studies/Sciences does not entitle one to practice law, provide legal services directly to the public, or render legal advice, except as provided by law.

### Paralegal Degree Requirements

Paralegal majors, minors, and certificates must attain a minimum grade of "C" in all major and supporting courses, a minimum grade of "C" must be earned in LAS 210 Introduction to Law before taking LAS 220 Legal Research and Writing I. A minimum grade of "C" must be earned in LAS 220 Legal Research and Writing I before being admitted to any of the other upper division requirements.

Paralegal majors, minors, and certificates must take a minimum of ten (10) semester credits of courses from Major/Minor requirements in a

traditional in-person or ITV format. No courses taken in an online or web-based format can count toward this ten (10) semester credit requirement.

### Paralegal Transfer Students

Transfer students must take a minimum of 15 semester hours of paralegal (LAS) courses at EKU to earn a paralegal degree. Please see the EKU Paralegal Program website ([www.paralegal.eku.edu](http://www.paralegal.eku.edu) (<http://www.paralegal.eku.edu>)) or contact the Paralegal Program Director for more information on the transfer policy for paralegal specialty courses.

### Bachelor's

- Globalization and International Affairs, Bachelor of Arts (B.A.) (p. 304)
- Paralegal Science, Bachelor of Arts (B.A.) (p. 306)
- Political Science, Bachelor of Arts (B.A.) (p. 307)

### Accelerated

- Political Science, Bachelor of Arts (B.A.) & Master of Public Administration (M.P.A.) Accelerated 3 + 2 Dual Degree Program (p. 309)

### Associate's

- Paralegal Studies, Associate of Applied Science (A.A.S.) (p. 307)

### Minor

- Globalization and International Affairs, Minor (p. 305)
- Legal Studies, Minor (p. 305)
- Paralegal Studies, Minor (p. 307)
- Political Science, Minor (p. 310)
- Pre-Law, Minor (p. 310)
- Public Administration, Minor (p. 311)

### Certificate

- Applied Social Science Analytics, Departmental Certificate (p. 303)
- Paralegal Science, Certificate (Post-Baccalaureate) (p. 306)
- Public Administration, Certificate (p. 311)

## Courses

### Legal Studies

#### LGS 300. Introduction to Legal Studies. (3 Credits)

A. Prerequisite: ENG 102, ENG 105, or HON 102. Examination of foundations and liberal arts perspectives of legal studies. Topics include comparative and historical introduction to forms, institutions, processes, and systems of law along with research methods for understanding questions of law and justice.

#### LGS 305. Special Topics:\_\_\_ (3 Credits)

A. Prerequisite: LGS 300. Exploration of topics not covered in the existing LGS curriculum. May be taken for a maximum of six hours provided that subject matter is different each time.

#### LGS 306. Animals and the Law. (3 Credits)

A. Formerly LAS 306. The study of topics that relate to the status of animals under the law. The course focuses upon cases, legislation, and cultural values toward animals world-wide. Credit will not be awarded to students who have credit for LAS 306.

**LGS 349. Applied Learning for Legal Studies. (0.5-8 Credits)**

A. Prerequisites: LGS 300. Work or volunteer in an area related to Legal Studies. A minimum of 80 hours employment required for each semester hour credit. No more than 3 hours may count toward LGS program.

**LGS 400. Legal Studies Senior Seminar. (3 Credits)**

A. Prerequisite: LGS 300 and at least six hours of LGS electives. Conduct research in an area related to Legal Studies, write a research paper, and present an oral presentation on research conducted. No more than 3 hours may count toward LGS program.

**Paralegal****LAS 210. Introduction to Law. (3 Credits)**

I, II. General study of the purpose, function, and history of law; law-related occupations; court systems; case law analysis; professional ethics; the adversary system; and the major areas of law.

**LAS 220. Legal Research and Writing I. (3 Credits)**

I, II. Prerequisite: LAS 210 or director approval. The sources and techniques of legal research; their application to specific legal problems and the use of legal authority to construct a written legal argument.

**LAS 300W. Legal Research and Writing I. (3 Credits)**

A. Prerequisite: LAS 220. The sources and techniques of advanced legal research and writing, the use of computer-assisted legal research methods and their application. Credit will not be awarded for both LAS 300 and LAS 300W.

**LAS 305. Special Topics in the Law. (1-3 Credits)**

A. Prerequisite: director approval. A course offered periodically covering topics and issues of current or special interest concerning the law. May be retaken to a maximum of six hours provided topics vary.

**LAS 306. Animals & the Law. (3 Credits)**

A. The study of topics that relate to the status of animals under the law. The course focuses upon cases, legislation, and cultural values toward animals world-wide. Does not count toward paralegal requirements.

**LAS 325. Real Estate Practice. (3 Credits)**

I, II. Prerequisite: LAS 220. Paralegal practice and procedure for general law office; real estate transactions and documents, title searches, title insurance, loan closings, leases, wills, affidavits of descent, and foreclosures.

**LAS 330. Family Law Practice. (3 Credits)**

A. Prerequisite: LAS 220. Paralegal practice in family law including forms, documents, and procedures for: marriage, divorce, separation, annulment, alimony, legitimacy of children, custody, adoption, community property, and juvenile law. Credit will not be awarded for both LAS 330 and LAS 330S.

**LAS 340. Criminal Law Practice and Procedure. (3 Credits)**

A. Prerequisite: LAS 220 or director approval. An introduction to criminal law and procedure; criminal law forms and documents, and preparation for criminal litigation using the systems approach.

**LAS 350. Litigation: Complaint to Discovery. (3 Credits)**

A. Prerequisites: LAS 220 or director approval. Study of legal principles and paralegal practice in substantive civil law. Incorporates procedural aspects of the early stages of civil litigation including evidence and investigation, pleadings, and the discovery/disclosure process.

**LAS 355. Litigation: Complaint to Discovery. (3 Credits)**

I, II. Prerequisite: LAS 220 or Director Approval. Study of legal principles and paralegal practice in substantive civil law. Incorporates procedural aspects of the latter stages of civil litigation including settlement and ADR, trial preparation, trial, post-trial practice, and appeal.

**LAS 360. Wills, Trusts, Estates, & Elder Law. (3 Credits)**

I, II. Prerequisite: LAS 220 or director approval. Paralegal probate practice including initial steps, asset accumulation, debt management, court procedure, estate-related tax issues and forms. A systems approach will be emphasized.

**LAS 370. Corporations and Business Organization Practice. (3 Credits)**

A. Prerequisite: LAS 220. Documents, forms, and procedures essential to the corporate paralegal. Development of skills concerning business formations, incorporation, corporate finance, employees, corporate operation, securities, regulatory compliance, merger, acquisitions, sales and terminations.

**LAS 380. Administrative Agency Practice. (3 Credits)**

A. Prerequisite: LAS 220. Practical paralegal skill development in administrative law and procedure. Forms, documents, pleadings, and techniques for administrative regulatory compliance; case processing; informal and formal administrative advocacy, emphasizing the systems approach.

**LAS 385. Legal Administration and Computer Applications. (3 Credits)**

I, II. Prerequisites: LAS 220. The study of law office administration and the utilization of specific law office computer applications.

**LAS 399. Paralegal Internship. (4 Credits)**

I, II. Prerequisites: completion of 18 hours of major (LAS) courses including LAS 300 or director approval (prior written application is required).

**LAS 410. Paralegal Seminar. (3 Credits)**

A. Prerequisite: completion of 18 hours of major (LAS) courses or director approval. Professional ethics, analysis of the internship experience, transition to the law office and current issues facing the paralegal profession.

**LAS 460. Estate Planning & Procedure. (3 Credits)**

A. Prerequisite: LAS 360 or director approval. The study of law, forms, documents, and procedures essential to the paralegal involved in the drafting of wills, trusts, and estate plans. The systems approach will be emphasized.

**LAS 490. Independent Study of the Law. (1-3 Credits)**

A. Prerequisite: director approval. Individual research, skill development, and study in an area of law or paralegal practice. Student must have independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. May be retaken to a maximum of six hours.

**Political Science****POL 100. Principles of Politics and Government. (3 Credits)**

I, II. An introductory social science course focusing on the political and governmental aspects of societies. Does not count toward political science major requirements. Credit will not be awarded to students who have credit for POL 100S.Gen. Ed. VB, VC, or VII (SBS).

**POL 100S. Principles of Politics & Govt. (3 Credits)**

I, II. An introductory social science course focusing on the political and governmental aspects of societies, enhanced with a service-learning component. Does not count toward the political science major requirements. Credit will not be awarded to students who have credit for POL 100. Gen. Ed. VB, VC, or VII (SBS).

**POL 101. Introduction to American Government. (3 Credits)**

I, II. Principles, functions, and basic political institutions of the American system of government at the national level. Gen. Ed. VB, VC, or VII (SBS). [SB] E-5A, E-5B. Credit will not be awarded for both POL 101 and POL 101S.

**POL 101S. Intro to Amer Govt: Svc Lrng. (3 Credits)**

A. Principles, functions, and basic political institutions of the American system of government at the national level enhanced with a service-learning component. Credit will not be awarded to students who have credit for POL 101. Gen. Ed. VB, VC, or VII (SBS).

**POL 201. Short Topics in Political Science. (1-3 Credits)**

A. A maximum of three short topics offered during any semester. The student may take any or all topics. May be retaken to a maximum of six hours when topics vary.

**POL 212. Introduction to Comparative Politics. (3 Credits)**

I, II. A study of the purpose, concepts, and methods used in the cross-national study of politics and government with a focus on selected countries. Gen. Ed. VB or VC or VII (SBS). [SB] E-5A or E-5B.

**POL 220. Introduction to World Politics. (3 Credits)**

(3) I, II. The study of the political interactions of countries and organizations relating to politics, economics, the environment, technology, culture and society on a global level. Gen. Ed. VB, VC, or VII (SBS).

**POL 250. Introduction to Political Philosophy. (3 Credits)**

(3) I, II. Examination of Western political theory from the ancient Greeks to the contemporary era with a focus on selected philosophers. Gen. Ed. Elements 3B and 5B.

**POL 256. African American Pol Thought. (3 Credits)****POL 280. Research and Writing in Political Science. (3 Credits)**

A. Prerequisite: majors, minors, or departmental approval. Practical application of techniques and methods used in collection, analysis, and written presentation of political data. No more than 6 hours of POL courses numbered 300 or above may be taken prior to completing POL 280.

**POL 310. Latin American Governments. (3 Credits)**

A. A study of the political institutions and issues facing the people and governments of Latin America.

**POL 312. Politics in China. (3 Credits)**

A. Analysis of political development, organizational structure, and operation of Chinese political systems with particular emphasis on Chinese Communism, foreign policies, and contemporary problems in China.

**POL 314. Politics of South Asia. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105(B), or HON 102. Studies and analyzes the political situations of South Asia. Course focuses on the politics of Afghanistan, Pakistan, and India; however, instructor may focus on additional countries or regions as well.

**POL 315. European Politics. (3 Credits)**

A. Examination of the politics and public policies of the European Union and selected European countries.

**POL 316. Politics in Russia. (3 Credits)**

A. Nature and development of Russia's political system since the end of the USSR and fall of communism; impact of the Soviet era; development of political parties and civil society; superpresidentialism; nationalism; federalism and ethnic politics.

**POL 318. Politics of the Middle East. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105(B), or HON 102. Studies and analyzes the politics of the countries of the Middle East and North Africa, with a focus on historical legacies, contemporary challenges to political and economic development, and international affairs. Credit will not be awarded for both POL 318 and POL 410: Politics of the Middle East.

**POL 321. American Foreign Policy. (3 Credits)**

II. Prerequisite: three hours of POL or instructor approval. Analysis of the internal processes and external factors which affect U.S. foreign policy, with emphasis on the post-World War II period. Case studies in decision-making.

**POL 325. Global Security. (3 Credits)**

(3) I. Prerequisite: ENG 102, ENG 105(B) or HON 102. Analysis of major problems of global and human security, the role of military with emphasis on military-security policies of global import.

**POL 327. Internat Law & Organization. (3 Credits)**

A. Prerequisite: three hours of POL or instructor approval. Analysis of the development of the U.N.; functional and regional approaches to peace, security, economic cooperation, social welfare, and law in international relations.

**POL 331. Urban Politics. (3 Credits)**

A. Political processes of urban areas including comparisons of alternative structures of urban and other local government.

**POL 332. Kentucky Government and Politics. (3 Credits)**

I, II. An overview of the Kentucky political system: major institutions, processes and political leaders, with emphasis on recent events and developments.

**POL 333. American State and Local Government. (3 Credits)**

A. Study of the institutions and processes of government of the fifty states and of cities and counties.

**POL 340. Political Parties and Interest Groups. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105(B) or HON 102. An overview of the informal political institutions of American government; functions, organization, financing of political parties, interest groups and their relationship to democracy.

**POL 341. The U.S. Congress. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105(B), or HON 102. A systematic examination of the decision-making process in Congress.

**POL 342. The American Presidency. (3 Credits)**

(3) A. Prerequisite: ENG 101, ENG 105(B) or HON 102. An examination of the power and functions of the offices of the President. Recent developments affecting the American President will be emphasized.

**POL 343. Campaigns and Elections. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105(B) or HON 102. An examination of U.S. campaigns and elections including topics in campaign organization and planning, voting behavior, campaign finance and election laws for presidential, congressional and state/local campaigns.

**POL 345. Minority Group Politics. (3 Credits)**

A. Cross listed as AFA 345. Examination and comparison of various theories, strategies, forms of participation, leadership styles, and concepts (e.g., Black Power) of minority group politics. Credit will not be awarded to students who have credit for AFA 345. Gen. Ed. VIII.

**POL 346. Religion and Politics in the World. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), or HON 102. Examines the relationship between religion and politics in the world from such different perspectives as public opinion, voting behavior, institutional structures, political economy, and/or policy-making.

**POL 347. Politics and Religion in the U.S.. (3 Credits)**

A. Interaction of government, politics, and religion in the U.S.: role of Supreme Court and Constitution in defining church-state separation and religious freedom; religious organizations as pressure groups; religion in electoral politics and foreign policy-making; religion and public schools.

**POL 349. Applied Learning in Political Science. (0.5-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. No more than six hours may count toward this major. No more than three hours may count toward this minor.

**POL 349A. Cooperative Study: Political Science. (1-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. No more than six hours may count toward this major. No more than three hours may count toward this minor.

**POL 349B. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349C. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349D. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349E. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349F. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349G. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349H. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 356. African American Political Thought. (3 Credits)**

(3) A. Cross-Listed with AFA 356. Pre-requisite: ENG 102, 105 (B) or HON 102. Examination of political ideas espoused by African Americans activists from the nineteenth century to the present. Credit will not be awarded to students who have credit for AFA 256. Gen. Ed. E-6.

**POL 357. American Political Thought. (3 Credits)**

A. Study of the political philosophy and values that have shaped the American political system. Emphasis given to problems in democratic theory and to competing ideologies within the American political system.

**POL 360. Judicial Process. (3 Credits)**

A. Study of legal and judicial systems in the United States and their role in the American political process.

**POL 370. Introduction to Public Administration. (3 Credits)**

A. Survey of organization, authority, decision-making, intra-organization communications, and application of principles of the American bureaucracy by case studies.

**POL 373. Politics of Development in Appalachia. (3 Credits)**

A. Cross listed as APP 373. Prerequisite: ENG 102, 105 (B), or HON 102. This course examines community and economic development in the Appalachian region with special emphasis on Kentucky. Focus will be on the political, economic and social aspects affecting development. Credit will not be awarded to students who have credit for APP 373. Gen. Ed. E-6.

**POL 374. Introduction to Public Policy. (3 Credits)**

A. Introduction to the role of federal, state, and local governments in the formulation, implementation, and evaluation of public policies. Examples of policy decisions which might be covered include, energy, housing, environmental quality, and social services.

**POL 376. Public Human Resources. (3 Credits)**

A. Policies and practices for human resources management in public services. Civil Service systems and reforms, diversity and affirmative action, managing, compensating, and motivating employees.

**POL 377. Public Budgeting. (3 Credits)**

A. The political consideration of budget formulation, budget strategy, and budget execution. An analysis of the role of taxes, spending, program evaluation, and planning in the budgeting process at the federal, state, and local levels.

**POL 400W. Capstone Course in Political Science. (3 Credits)**

(3) I, II. Prerequisites: POL 101, POL 212, POL 220, POL 250, and POL 280; ENG 102 or ENG 105(B) or HON 102. Culminating, integrative course for political science majors. Requires advanced analysis integrating subfields of the discipline. Students will complete a major paper assignment, writing in stages with instructor feedback and revisions.

**POL 405. Special Topics in Political Science. (3 Credits)**

A. Exploration of a particular topic; theorist, institution, process, policy, writings, or their combinations. Prerequisites set by the department. May be retaken to a maximum of six hours provided subject matter is different each time.

**POL 412. Politics of Mexico. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105(B), or HON 102. Study of the politics of Mexico, with a focus on historical legacies, contemporary challenges to political and economic development, and key issues in U.S.-Mexico relations. Credit will not be awarded for both POL 412 and POL 410: Politics of Mexico.

**POL 415. Terrorism and Political Violence. (3 Credits)**

A. Examines terrorism and political violence as causes and consequences of cultural, social and political change.

**POL 421. The U.S. and Latin America. (3 Credits)**

A. Examines U.S. foreign policy in Latin America and the Caribbean; Latin American foreign policies; key hemispheric issues such as the war on drugs, immigration, foreign aid, and trade.

**POL 440. Public Opinion & Voting Behavior. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105(B) or HON 102. Survey of recent literature in the field of voting behavior in the U.S. Topics include public opinion, polling, participation, and campaign behavior. Attention paid to methodologies and techniques.

**POL 446. The Politics of Sex. (3 Credits)**

A. Cross listed as WGS 446. The effect of sex on social and political institutions, public policies, and court rulings. Issues may include pornography, sexual and gender discrimination, domestic violence, reproductive rights and gay rights. Credit will not be awarded to students who have credit for WGS 446. Gen. Ed. VIII.

**POL 451. Principles and Politics of Human Rights. (3 Credits)**

A. Cross listed as WGS 451. Examines politics of human rights in theory and in practice. Credit will not be awarded to students who have credit for WGS 451.

**POL 460. Law and Society. (3 Credits)**

A. Sources, nature, function, and limits of law as an instrument of social and political control and direction. Examples taken from property, torts, contracts, criminal law, and selected areas of public policy.

**POL 463. Constitutional Politics. (3 Credits)**

A. An examination of constitutional problems in American government. Emphasis is given to cases in their legal and political context.

**POL 464. Law and Politics of Civil Liberties. (3 Credits)**

A. An examination of historic and contemporary problems of civil liberties. Emphasis is given to cases in their legal and political context.

**POL 466A. Mock Trial. (2 Credits)**

I. Prerequisite: departmental approval.. Preparation of Mock Trial Competitions. Students will develop cases for presentation including preparing opening and closing arguments, introducing testimonial, physical and demonstrative evidence, and conducting direct and cross examination of witnesses. May be retaken to a maximum of 8 hours, only 2 of which may be counted toward the political science major and only 1 may be counted toward the political science minor.

**POL 466B. Mock Trial II. (2 Credits)**

II. Prerequisite: POL 466A and departmental approval. Preparation of Mock Trial Competitions. Students will develop cases for presentation including opening and closing arguments, introducing testimonial, physical, and demonstrative evidence, and conducting direct and cross examination of witnesses. May be retaken to a maximum of 8 hours, only 4 of which may be counted toward the political science major and only 2 may be counted toward the political science minor.

**POL 490. Independent Work in Political Science. (1-3 Credits)**

A. Individual research and/or reading on a problem or area in political science. Regular reports and final research paper required. May be retaken to a maximum of six hours. Students must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**POL 495. Practicum in Political Science. (1-3 Credits)**

A. Supervised field study program. May be retaken to a maximum of six hours, provided subject matter differs each time. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**POL 495A. Practicum in Amer Pol Process. (1-3 Credits)**

A.

**POL 495B. Practicum Comp Pol & Intl Rel. (1-3 Credits)**

A.

**POL 496A. Washington Internship. (1-12 Credits)**

A. Prerequisite: junior or senior standing with 2.5 GPA. Supervised internship with government or private agencies in Washington, D.C. Open by application to those students who fulfill the prerequisite.

**POL 496B. Washington Seminar. (3 Credits)**

A. Corequisite: POL 496A. Seminar on selected topics in national government.

**POL 496C. Washington Forum. (3 Credits)**

A. Corequisite: POL 496A and POL 496B. Seminar on selected topics in national government.

**POL 497. Kentucky Administration Intern Program. (18 Credits)**

A. Prerequisites: junior or senior standing with a cumulative GPA of 2.6 or better (on a 4.0 scale). Enrollment is by invitation only and limited to a maximum of 18 hours.

**POL 498. Kentucky Legislative Internship Program. (3 Credits)**

A. Prerequisites: junior or senior standing with a cumulative GPA of 2.8 or better (on a 4.0 scale) and a definite interest in the legislative process in the Commonwealth. Enrollment is by invitation only and limited to a maximum of 15 hours by registering for POL 408A and 408B.

**POL 498A. Legislative Internship. (3-9 Credits)**

A. Each intern's performance in his or her legislative assignment will be evaluated by the immediate supervisor in consultation with the campus coordinator. May be retaken to a maximum of nine hours.

**POL 498B. Selected Topics in Kentucky Legislative Process. (3-9 Credits)**

A. Seminar on various topics on the legislative process in the Commonwealth which support and constitute an essential part of the Kentucky Legislative Internship Program. May be retaken to a maximum of nine hours.

**POL 498C. Legislative Forum. (3 Credits)**

A. Corequisite: POL 498A and POL 498B. Seminar on selected topics in state government.

**POL 533. Seminar In State and Local Politics. (3 Credits)**

A. A topical analysis of the institutions, policies, and administration of American state and local government. May be retaken to a total of six hours credit, provided subject matter differs each time.

**POL 541. Politics and Education. (3 Credits)**

A. An examination of the way political decisions and policies are made in the field of education. Special attention is given to educational decision makers and political power at the local level.

**POL 551. Classical Political Theory. (3 Credits)**

A. Cross-listed as PHI 551. Examination of Western political thought from Plato to Aquinas. Credit will not be awarded to students who have credit for PHI 551, PHI 551W or POL 551W.

**POL 552. Modern Political Theory. (3 Credits)**

A. Cross-listed as PHI 552. Examination of Western political theory from the Renaissance to the mid-twentieth century. Credit will not be awarded to students who have credit for PHI 552, PHI 552W or POL 552W.

**POL 552W. Modern Political Theory. (3 Credits)**

A. Cross-Listed as PHI 552W. Prerequisites: ENG 102 or ENG 105 (B), or HON 102. Examination of Western political theory from the Renaissance to mid-twentieth century. Credit will not be awarded to students who have credit for PHI 552, PHI 552W, or POL 552.

**POL 553. Contemporary Political Theory. (3 Credits)**

A. Cross-listed as PHI 553. Examination of Western political thought from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for PHI 553, PHI 553W or POL 553W.

**POL 553W. Contemp Political Theory: W. (3 Credits)**

A. Cross-listed as PHI 553W. Prerequisites: ENG 102, or ENG 105 (B), or HON 102. Examination of Western political thought from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for PHI 553, PHI 553W or POL 553.

**POL 565. Administrative Law. (3 Credits)**

A. Nature of the powers vested in administrative agencies; the problems of administrative procedure; and the methods and extent of judicial control over administrative action.

## Applied Social Science Analytics, Departmental Certificate Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Sequence</i>		
Social Science Research Methods:		
Choose from one of the following:		
		3

POL 280	Research and Writing in Political Science	
SWK 340	Social Work Research Methods	
CRJ 388/388W	Research Methods	
ECO 320	Research Methods in Economics	
ECO 420	Research Methods II	
PSY 240	Scientific Literacy in Psychology	
SOC 395	Research Methods in Sociology	
Data Science Fundamentals and Statistical Analysis:		
Choose from two of the following:		6
PSY 340		
PSY 440	Applied Scientific Literacy in Psychology	
SOC 232	Social Statistics	
STA 340	Applied Regression Analysis	
GEO 351	Geoscience Data and Techniques	
GEO 353	Geographic Information Systems	
GEO 453	Advanced GIS	
STA 375	Sampling Methods	
CRJ 400	Criminal Justice Statistics	
PSY 419	Research Development Skills II	
STA 580	R and Introductory Data Mining	
STA 585	Experimental Design	
ANT 371	Primate Ecology & Sociality	
ANT 460	Bio Anthropology Field Methods	
Applied Research Experience:		
Choose from one of the following:		3
POL 400W	Capstone Course in Political Science	
SOC 470	Capstone Seminar in Sociology	
ANT 394W	Anthropology & Wicked Problems	
ANT 471	Archaeological Materials Analysis	
PSY 400	Senior Seminar:____	
<b>Total Hours</b>		<b>12</b>

## Globalization and International Affairs, Bachelor of Arts (B.A.)

The intent of the Globalization and International Affairs (GLO) major is to create an interdisciplinary major that focuses on the nature of globalization and its impacts on individuals, communities, regions, and nations, and to assist in broadening the international horizons of EKU students. The program will graduate culturally aware students who are comfortable in a variety of international public-sector, private-sector, and non-profit positions. GLO students will possess an enhanced awareness of worldwide economic and political events and will be able to assess their impacts on international affairs. Upon completion of the GLO degree, graduates will be able to:

1. analyze cultural, economic, geographical, historical, political and social forces affecting globalization,
2. identify factors which impede or encourage globalization,
3. evaluate the impacts of increasing globalization on individuals, communities, regions, and nations,
4. integrate globalization ideas and concepts from the various disciplines into a unified whole, and

5. compete well for international positions or for domestic positions requiring international expertise.

## Program Requirements

CIP Code: 30.2001

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Globalization and International Affairs majors will fulfill ACCT with six credits from one of the following. (Credit hours are incorporated into Major requirements.)		
<b>Study Abroad</b>		
POL 280 & POL 400W	Research and Writing in Political Science and Capstone Course in Political Science	
<b>GLO-Approved Coop/Internship</b>		
<b>Major Requirements</b>		
<i>Core Courses</i>		
ECO 120	Economic Reasoning and Issues	3
GEO 100	Regions and Nations of the World	3
POL 212	Introduction to Comparative Politics	3
POL 220	Introduction to World Politics	3
POL 325	Global Security	3

POL 451	Principles and Politics of Human Rights	3
<i>Major Electives</i>		
Choose from 12 hours of the following (no more than six hours of a single prefix): <sup>1</sup>		12
CMS 375	Intercultural Communication	
ECO 230	Fundamentals of Microeconomics	
ECO 231	Fundamentals of Macroeconomics	
HIS 322	History of the Modern Middle East	
HIS 370	World History Since 1945	
HIS 384	Modern Latin America Modern Latin America	
HIS 386	Modern African History	
POL 310	Latin American Governments	
POL 314	Politics of South Asia	
POL 318	Politics of the Middle East	
POL 346	Religion and Politics in the World	
POL 412	Politics of Mexico	
POL 415	Terrorism and Political Violence	
POL 451	Principles and Politics of Human Rights	
REL 301	World Religions	
REL 301W	World Religions: Writing Intensive	
SOC 425	Social Inequality	
All spoken world languages (not Latin, English, or ASL)		
<i>Capstone Requirement</i>		
Choose from one of the following:		6
GLO-Approved Study Abroad		
POL 280 & POL 400W	Research and Writing in Political Science and Capstone Course in Political Science	
GLO-Approved Coop-Internship		
<i>Free Electives</i>		
Choose from 47 hours of free electives		47
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Students may apply for **one** exception to the above list. The course must have significant global content and be approved by the program director.

A minimum grade of "C" is required in all courses counted toward this major.

## Globalization and International Affairs, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
POL 220	Introduction to World Politics	3
Choose from 15 hours of the following with no more than six hours of a single prefix:		15
CMS 375	Intercultural Communication	
ECO 120	Economic Reasoning and Issues	
ECO 230	Fundamentals of Microeconomics	
ECO 231	Fundamentals of Macroeconomics	
GEO 100	Regions and Nations of the World	
HIS 322	History of the Modern Middle East	

HIS 370	World History Since 1945	
HIS 384	Modern Latin America Modern Latin America	
HIS 386	Modern African History	
POL 212	Introduction to Comparative Politics	
POL 310	Latin American Governments	
POL 314	Politics of South Asia	
POL 318	Politics of the Middle East	
POL 325	Global Security	
POL 346	Religion and Politics in the World	
POL 412	Politics of Mexico	
POL 415	Terrorism and Political Violence	
POL 451	Principles and Politics of Human Rights	
SOC 425	Social Inequality	
Study Abroad (Element 6 by approval) <sup>G</sup>		
200-level or higher spoken world languages not including Latin, English or ASL (Element 6) <sup>G</sup>		
<b>Total Hours</b>		<b>18</b>

## Legal Studies, Minor

The Legal Studies Minor is an interdisciplinary program with a liberal arts focus that provides students with the opportunity to study the law, legal ideas/concepts, and legal systems/processes from a variety of perspectives. The minor is designed to provide a broad conceptual framework to explore legal studies and complement a chosen major of study. While the minor may be appropriate for those considering attending law schools, it is not a "pre-law" program and does not provide legal or paralegal training.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
<i>Core Courses</i>		
LGS 300	Introduction to Legal Studies <sup>1</sup>	3
<i>Electives</i>		
Choose from 12 hours of the following: <sup>2</sup>		12
ANT 357	Archaeology and the Law	
FOR 465W	Expert Witness Testimony	
LAS 220	Legal Research and Writing I	
LGS 305	Special Topics:___	
LGS 306	Animals and the Law	
LGS 490		
POL 327	Internat Law & Organization	
POL 347	Politics and Religion in the U.S.	
POL 360	Judicial Process	
POL 460	Law and Society	
POL 463	Constitutional Politics	
POL 464	Law and Politics of Civil Liberties	
POL 466		
PSY 466		
SOC 340		
SOC 375	Sociology of Deviance	
SOC 383	Environment and Society	

Substitute three hours of special topics courses as approved by the Director of Legal Studies

<i>Co-op or Research Requirement</i>		
LGS 349	Applied Learning for Legal Studies	3
or LGS 400	Legal Studies Senior Seminar	
<b>Total Hours</b>		<b>18</b>

1

Students are strongly advised to enroll in LGS 300 Introduction to Legal Studies before beginning Legal Studies elective studies.

2

Students may not take more than six hours of electives with the same course prefix. Students may not count Legal Studies electives towards any other major or minor.

## Paralegal Science, Bachelor of Arts (B.A.)

### Program Requirements

CIP Code: 22.0302

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

#### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
	Orientation Course (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	

ACCT – Paralegal Science majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

LAS 399	Paralegal Internship	
<b>Major Requirements</b>		
<i>Core Courses</i>		
LAS 210	Introduction to Law	3
LAS 220	Legal Research and Writing I	3
LAS 300W	Legal Research and Writing I	3
LAS 325	Real Estate Practice	3
LAS 350	Litigation: Complaint to Discovery	3
LAS 355	Litigation: Complaint to Discovery	3
LAS 385	Legal Administration and Computer Applications	3
LAS 399	Paralegal Internship	4
LAS 410	Paralegal Seminar	3
	Choose from 12 hours of the following:	12
LAS 330	Family Law Practice	
LAS 340	Criminal Law Practice and Procedure	
LAS 360	Wills, Trusts, Estates, & Elder Law	
LAS 370	Corporations and Business Organization Practice	
LAS 380	Administrative Agency Practice	
LAS 490	Independent Study of the Law	
<i>Supporting Course Requirements</i>		
ACC 200	Survey of Accounting	3
ENG 300	Introduction to Technical and Professional Writing	3
or ENG 300S	Intro to Tech/Prof Writing	
POL 101	Introduction to American Government (Element 5B) <sup>G</sup>	
LAS 460	Estate Planning & Procedure	3
or POL 463	Constitutional Politics	
or POL 464	Law and Politics of Civil Liberties	
<i>Free Electives</i>		
	Choose from 34 hours of free electives	34
<b>Total Hours</b>		<b>120</b>

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Paralegal Science, Certificate (Post-Baccalaureate)

### Program Requirements

CIP Code: 22.0302

Code	Title	Hours
<b>Certificate Requirements</b>		
LAS 210	Introduction to Law	3
LAS 220	Legal Research and Writing I	3
LAS 300W	Legal Research and Writing I	3
LAS 350	Litigation: Complaint to Discovery	3
LAS 355	Litigation: Complaint to Discovery	3
LAS 410	Paralegal Seminar	3

Choose from 12-13 hours of the following:	12-13
LAS 325 Real Estate Practice	
LAS 330 Family Law Practice	
LAS 340 Criminal Law Practice and Procedure	
LAS 360 Wills, Trusts, Estates, & Elder Law	
LAS 370 Corporations and Business Organization Practice	
LAS 380 Administrative Agency Practice	
LAS 385 Legal Administration and Computer Applications	
LAS 399 Paralegal Internship <sup>1</sup>	
<b>Total Hours</b>	<b>30-31</b>

1

LAS 399 Paralegal Internship is a 4 semester hour course.

Students with 75 hours or more may begin taking courses toward the post-baccalaureate certificate. At least 18 hours toward the certificate must be taken subsequent to receiving a bachelor's degree.

## Paralegal Studies, Associate of Applied Science (A.A.S.)

### Program Requirements

CIP Code: 22.0302

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		18
Elements: 1A, 1B, 2, 3B, 5B, and an additional three hrs from any element (excluding POL courses).		
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
<b>Major Requirements</b>		
<i>Core Courses</i>		
LAS 210	Introduction to Law	3
LAS 220	Legal Research and Writing I	3
LAS 300W	Legal Research and Writing I	3
LAS 325	Real Estate Practice	3
LAS 350	Litigation: Complaint to Discovery	3
LAS 355	Litigation: Complaint to Discovery	3
LAS 385	Legal Administration and Computer Applications	3
LAS 399	Paralegal Internship	4
LAS 410	Paralegal Seminar	3
Choose from nine hours of the following:		9
LAS 330	Family Law Practice	
LAS 340	Criminal Law Practice and Procedure	
LAS 360	Wills, Trusts, Estates, & Elder Law	
LAS 370	Corporations and Business Organization Practice	
LAS 380	Administrative Agency Practice	
LAS 460	Estate Planning & Procedure	
<i>Supporting Course Requirements</i>		
ACC 200	Survey of Accounting	3
Choose from one of the following: (with a grade of "A" or "B")		

ENG 101 & ENG 102	Reading, Writing, and Rhetoric and Research, Writing, and Rhetoric (Element 1A) <sup>G</sup>	
ENG 105	First Year Writing Seminar (Element 1B) <sup>G</sup>	
ENG 300	Introduction to Technical and Professional Writing	3
Three hours of General Education humanities (Element 3B) <sup>G</sup>		
POL 101	Introduction to American Government (Element 5B) <sup>G</sup>	
MAT 105	Mathematics with Applications (or higher) (Element 2) <sup>G</sup>	
Three hours of additional General Education course (not POL)		
<i>Free Electives</i>		
Choose from two hours of free electives		2
<b>Total Hours</b>		<b>64</b>

G

Course also satisfies a General Education element. Hours are included within the General Education requirement above.

## Paralegal Studies, Minor

### Program Requirements

A student may minor in Paralegal Studies by completing a total of 18 hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
LAS 210	Introduction to Law	3
LAS 220	Legal Research and Writing I	3
LAS 300W	Legal Research and Writing I	3
LAS 350	Litigation: Complaint to Discovery	3
LAS 355	Litigation: Complaint to Discovery	3
LAS 410	Paralegal Seminar	3
<b>Total Hours</b>		<b>18</b>

## Political Science, Bachelor of Arts (B.A.)

Political Science is the study of power, conflict, and war, and of the human endeavor to maintain peace, order, and cooperation, and of the principles and ethics that guide that effort. It is the study of governments, in the United States and in other countries, and of the making and carrying out of laws and policies, by Presidents and governors, legislatures, courts, and the administrative agencies and civil service they oversee, and of the media and journalists who observe them and inform us of their actions. It is the study of cities and counties, and of their efforts to maintain and develop communities, politically, socially, and economically. It is the study of public agencies and services, and the special ways they must be organized and managed. It is the study of human values and beliefs, how they are formed and expressed in the public arena, in voting and elections, in political parties, and in the activities of organized interests, both self-seeking and public-spirited. The ancient Greek philosopher, Aristotle, said that politics is "the master science" because it influences how all other knowledge is used in society.

The objective of the political science program is to develop graduates who understand political institutions and behavior, and who in the process become able writers, speakers, thinkers, and informed

students of human conflict, organization, and governance. With such knowledge and skills, graduates are well prepared for a variety of careers. Professions to which such abilities are obviously relevant include public service in government and non-profit service agencies, law, education, journalism, and military command. But political science graduates have succeeded as well in careers in a variety of different areas of business, including banking, investment management, extractive and manufacturing industries, insurance, and sales. And political science is a natural minor to accompany other majors in which such knowledge and skills are important, including social work, public health and health administration, parks and recreation, business management, and all the other social sciences.

## Program Requirements

CIP Code: 45.1001

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Orientation Course (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT – Political Science majors will take the following or an alternate program-approved undergraduate research project if necessary. (Credit hours may be incorporated into Major or Supporting requirements)	
POL 400W	Capstone Course in Political Science	
<b>Major Requirements</b>		
<i>Core Courses</i>		

POL 101	Introduction to American Government	3
POL 212	Introduction to Comparative Politics	3
POL 220	Introduction to World Politics	3
POL 250	Introduction to Political Philosophy	3
POL 280	Research and Writing in Political Science <sup>1</sup>	3
POL 370	Introduction to Public Administration	3
or POL 374	Introduction to Public Policy	
POL 400W	Capstone Course in Political Science	3
Choose from 15 hours of POL courses, all of which must be numbered 300 or above, with a minimum of three hours each in three of the following four areas:		15

American Politics:

POL 331	Urban Politics
POL 332	Kentucky Government and Politics
POL 333	American State and Local Government
POL 340	Political Parties and Interest Groups
POL 341	The U.S. Congress
POL 342	The American Presidency
POL 343	Campaigns and Elections
POL 345	Minority Group Politics
POL 347	Politics and Religion in the U.S.
POL 360	Judicial Process
POL 370	Introduction to Public Administration
POL 373	Politics of Development in Appalachia
POL 374	Introduction to Public Policy
POL 376	Public Human Resources
POL 377	Public Budgeting
POL 440	Public Opinion & Voting Behavior
POL 460	Law and Society
POL 463	Constitutional Politics
POL 464	Law and Politics of Civil Liberties
POL 533	Seminar In State and Local Politics
POL 565	Administrative Law

Comparative Politics:

POL 310	Latin American Governments
POL 312	Politics in China
POL 314	Politics of South Asia
POL 315	European Politics
POL 316	Politics in Russia
POL 318	Politics of the Middle East
POL 319	
POL 346	Religion and Politics in the World
POL 412	Politics of Mexico

International Relations:

POL 321	American Foreign Policy
POL 325	Global Security
POL 327	Internat Law & Organization
POL 415	Terrorism and Political Violence
POL 451	Principles and Politics of Human Rights
POL 521	

Political Philosophy:

POL 356	African American Political Thought
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POL 357	American Political Thought	
POL 551	Classical Political Theory	
POL 552W	Modern Political Theory	
POL 553W	Contemp Political Theory: W	
<i>Free Electives</i>		
Choose from 47 hours of free electives		47
<b>Total Hours</b>		<b>120</b>

1

No more than six hours of POL courses numbered 300 or above may be taken prior to completing POL 280 Research and Writing in Political Science.

## Political Science, Bachelor of Arts (B.A.) & Master of Public Administration (M.P.A.) Accelerated 3 + 2 Dual Degree Program

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.A. degree and M.P.A. degree within 5 calendar years because up to 9 semester hours of graduate-level coursework will apply to both the undergraduate B.A. degree and the graduate M.P.A. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required.

### Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

Entrance requirements for the 3+2 adhere to the requirements for the M.P.A. Public Administration Program in the Graduate Catalog. Students admitted into the program will remain coded as undergraduate until fulfilling their BA requirements. Students admitted into the 3+2 program must complete the Political Science BA degree with a minimum 3.0 GPA to be allowed to proceed on with graduate program coursework. Students must fulfill all graduation requirements listed below.

Students may apply to the Graduate School for admission to the 3+2 program in their junior or senior year. Approval of both the department and Graduate School is required (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>)).

### Program Requirements

CIP Code: 45.1001

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Orientation Course (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT – Political Science majors will take the following or an alternate program-approved undergraduate research project if necessary.		
POL 400W	Capstone Course in Political Science	

<b>Major Requirements</b>		
<i>Core Courses</i>		
POL 101	Introduction to American Government	3
POL 212	Introduction to Comparative Politics	3
POL 220	Introduction to World Politics	3
POL 250	Introduction to Political Philosophy	3
POL 280	Research and Writing in Political Science <sup>1</sup>	3
POL 370	Introduction to Public Administration	3
or POL 374	Introduction to Public Policy	
POL 400W	Capstone Course in Political Science	3
POL 801	Admin, Ethics, Public Policy	3
POL 874	Public Sector Leadership	3
POL 875	Organization Theory	3

Choose from 12 hours of POL courses, all of which must be numbered 300 or above, with a minimum of three hours in each of the following areas:

Comparative Politics:

POL 310	Latin American Governments
POL 312	Politics in China
POL 314	Politics of South Asia
POL 315	European Politics
POL 316	Politics in Russia
POL 318	Politics of the Middle East
POL 346	Religion and Politics in the World
POL 412	Politics of Mexico
International Relations:	
POL 321	American Foreign Policy
POL 325	Global Security
POL 327	Internat Law & Organization
POL 415	Terrorism and Political Violence
POL 451	Principles and Politics of Human Rights
POL 521	
Political Philosophy:	
POL 356	African American Political Thought
POL 357	American Political Thought
POL 551	Classical Political Theory
POL 552W	Modern Political Theory
POL 553W	Contemp Political Theory: W
<i>Free Electives</i>	
Choose from 41 hours of free electives	41
<b>Total Hours</b>	<b>120</b>

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No more than six hours of POL courses numbered 300 or above may be taken prior to completing POL 280 Research and Writing in Political Science.

### Master of Public Administration with a Concentration in Community Development (M.P.A.)

See Master of Public Administration with a Concentration in Community Development (M.P.A.) (p. 769)

### Master of Public Administration with a Concentration in Emergency Management and Disaster Resilience (M.P.A.)

See Master of Public Administration with a Concentration in Emergency Management and Disaster Resilience (M.P.A.) (p. 770)

### Master of Public Administration with a Concentration in Interdisciplinary Studies (M.P.A.)

See Master of Public Administration with a Concentration in Interdisciplinary Studies (M.P.A.) (<http://catalogs.eku.edu/graduate/letters-arts-social-sciences/government/mpa-concentration-interdisciplinary-studies/>)

### Master of Public Administration with a Concentration in Nonprofit Management (M.P.A.)

See Master of Public Administration with a Concentration in Nonprofit Management (M.P.A.) (p. 771)

For more information on the MPA program, please see the Graduate Catalog.

## Political Science, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
POL 101	Introduction to American Government	3
Choose from 15 hours of which nine hours must be in courses numbered 300 or above <sup>1</sup>		15
<b>Total Hours</b>		<b>18</b>

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No more than three hours of POL 349 Applied Learning in Political Science may count toward the minor.

### Pre-Law, Minor

A broadly-based liberal education will best prepare one to study law, and therefore no fixed pre-law curriculum is prescribed. Admission to an accredited law school is dependent upon a good undergraduate record with an earned baccalaureate degree and a competitive score on the Law School Admission Test.

Students interested in going to law school or exploring the possibility of doing so should make an appointment with the Pre-Law Advisor as early in their academic career as possible. The Pre-Law Advisor can guide the student in selecting courses that will help prepare the student for law school, plus provide valuable information on law schools, the Law School Admission Test, and typical admission procedures.

The Pre-Law Minor is an interdisciplinary program specifically designed for students considering law school and a career as an attorney after graduation. It is designed to supplement a student's chosen major(s) by providing a strong foundation in basic legal concepts as well as legal research and writing. The minor incorporates course work from several disciplines related to law to develop students' advocacy and interpersonal skills and introduce them to legal concepts in specific areas of legal practice.

While law schools do not require any particular undergraduate course of study before applying, the Pre-Law Minor encourages and enables students to make a more informed decision on whether they wish to attend law school and pursue a career as an attorney.

Course substitutions may be approved by the Chair of the Department of Government.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
LAS 210	Introduction to Law	3
LAS 220	Legal Research and Writing I	3
Choose from 12 hours of the following, with a maximum of nine hours from any one prefix:		12
CMS		
205/205W		
CMS 325	Communication in Conflict Management	
CMS 420	Negotiation	
CMS 450	Mediation	
CRJ 313	Criminal Justice Ethics	

CRJ 314	Law and Society
CRJ 323	Legal Issues in Adult Corrections
BUS 204	Fundamentals of Business Law and Ethics
LAS 300W	Legal Research and Writing I
LAS 300	
PLS 216	Criminal Law
PLS 316	Criminal Evidence
PLS 416	Criminal Procedure
POL 360	Judicial Process
POL 460	Law and Society
POL 463	Constitutional Politics
POL 464	Law and Politics of Civil Liberties
POL 466A & POL 466B	Mock Trial and Mock Trial II (maximum six hours)
POL 495	Practicum in Political Science (Special Topics: Trial Advocacy and Procedure)

**Total Hours** 18

## Public Administration, Certificate

Public Administration is an ideal certificate for individuals planning careers in public service in local, state, regional, and federal government and in non-profit management. In addition, the certificate prepares individuals in the private sector who have responsibility for public sector contracts, regulatory compliance, and other oversight activities.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
POL 101	Introduction to American Government	3
POL 370	Introduction to Public Administration	3
POL 374	Introduction to Public Policy	3
Choose from three of the following:		9
POL 373	Politics of Development in Appalachia	
POL 376	Public Human Resources	
POL 377	Public Budgeting	
POL 533	Seminar In State and Local Politics	

**Total Hours** 18

## Public Administration, Minor

### Program Requirements

A student may minor in Paralegal Studies by completing a total of 18 hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
POL 101	Introduction to American Government	3
POL 370	Introduction to Public Administration	3
POL 374	Introduction to Public Policy	3
Choose from nine hours of the following:		9
POL 332 or POL 333	Kentucky Government and Politics American State and Local Government	
POL 373	Politics of Development in Appalachia	

POL 376	Public Human Resources
POL 377	Public Budgeting
POL 565	Administrative Law

**Total Hours** 18

Upper division courses applied to the public administration minor may not be applied to the political science minor.

## Department of History, Philosophy, and Religious Studies

### Interim Chair

Dr. Timothy Smit  
(859) 622-1373  
Keith 325

### Faculty

O. Anyanwu, M. Austin, T. Blackburn, D. Blaylock, J. Bowes, C. Dupont, T. Gooch, M. Groppo, T. Hartch, J. Jay, J. Lynn, L. Newhart, S. Parchment, M. Pianalto, T. Smit, J. Spock, C. Stearn, R. Weise, B. Wood, A. Velez, and M. Yazdani.

### Bachelor's

- History, Bachelor of Arts (B.A.) (p. 321)
- History/Teaching, Bachelor of Arts (B.A.) (p. 324)
- Philosophy, Bachelor of Arts (B.A.) (p. 325)

### Accelerated

- History, Bachelor of Arts (B.A.) & Master of Arts (M.A.) Accelerated 3 + 2 Dual Degree Program (p. 322)

### Associate's

*No results were found.*

### Minor

- African and African American Studies, Minor (p. 319)
- Applied Ethics, Minor (p. 319)
- Asian Studies, Minor (p. 320)
- History, Minor (p. 324)
- Philosophy, Minor (p. 326)

### Certificate

- African and African American Studies, Certificate (p. 319)
- Asian Studies, Certificate (p. 320)
- Department of History, Philosophy, and Religious Studies (p. 311)

## Courses

### African and African American Studies

#### AFA 200. Exploring Africa Through Play. (3 Credits)

I, II. Prerequisite: ENG 102 or ENG 105(B) or HON 102. Cross-listed as EMS 200. An exploration of the diversity of Sub-Saharan Africa through an immersion in pre-Colonial children's songs and games. The course aims at developing a deeper understanding and sensitivity to cultural diversity in Africa. Credit will not be awarded for both EMS 200 and AFA200. Gen. Ed. E-6.

#### AFA 201. The African Experience. (3 Credits)

A. Introduces students to the historical, socio-economic, cultural, and political experiences of African people in Africa and the Diaspora. It fulfills a core requirement for African/African-American Studies. Credit will not be awarded to students who have credit for AFA 201W. Gen. Ed. Element 3B and Element 6.

#### AFA 201W. The African Experience. (3 Credits)

A. Prerequisite: ENG 102, or ENG 105(B), or HON102(B). Introduces students to the historical, socio-economic, cultural, and political experiences of African people in Africa and the Diaspora. It fulfills a core requirement for African/African-American Studies. Credit will not be awarded to students who have credit for AFA 201. Gen. Ed. Element 3B and Element 6.

#### AFA 202. The African American Experience. (3 Credits)

A. An overview of the historical, social, political, economic, and cultural factors that have helped shape the experiences of African Americans in the United States. It fulfills a core requirement for African and African American Studies. Credit will not be awarded for both AFA202 and AFA202W. Gen. Ed. VII (SBS) and VIII.

#### AFA 202W. The African American Experience. (3 Credits)

A. An overview of the historical, social, political, economic, and cultural factors that have helped shape the experiences of African Americans in the United States. It fulfills a core requirement for African and African American Studies. Credit will not be awarded for both AFA202 and AFA202W. Gen. Ed. VII (SBS) and VIII.

#### AFA 225. African/African-American Health Issues. (3 Credits)

A. Cross listed as EHS 225. Provides the student with an understanding of the medical and public health issues relevant to the maintenance of health conditions both in the United States and Africa. Credit will not be awarded to students who have credit for EHS 225.

#### AFA 247. AFA Special Topics:\_\_\_\_. (3 Credits)

A. Specialized study of selected topics not available in traditional course offerings. Course designed for lower-division students. May be retaken with different topics to a maximum of six hours.

#### AFA 304. Slavery in the Americas. (3 Credits)

A. Cross listed as HIS 304. The history of slavery, bound labor, and freedom in the Western Hemisphere. Special attention will be given to anti-slavery and abolitionist movements. Credit will not be awarded to students who have credit for HIS 304.

#### AFA 305. African American History. (3 Credits)

A. Course cross listed with HIS 305. African history to 1500; Europe, Africa, and the Americas; trans-Atlantic and domestic slave trades; American slavery: emancipation; post-emancipation experiences and initiatives; persistence of black nationalism. Credit will not be awarded to students who have credit for HIS 305.

#### AFA 330. U.S. South and Black Education. (3 Credits)

A. Cross listed as EDF 330. This course introduces the major themes of Black populations educational opportunities in Southern States in the U.S. Students will acquire knowledge about historical events, people and policies shaping the evolution of Blacks in education. Credit will not be awarded to students who have credit for EDF 330. Gen. Ed. VIII.

#### AFA 345. Minority Group Politics. (3 Credits)

A. Cross listed as POL 345. Examination and comparison of various theories, strategies, forms of participation, leadership styles, and concepts (e.g. Black Power) of minority group politics. Credit will not be awarded to students who have credit for POL 345. Gen Ed. VIII.

#### AFA 347. Special Topics in AFA Studies. (3 Credits)

A. Specialized study of selected topics not available in traditional course offerings. May be retaken with different topics to a maximum of six hours.

#### AFA 349. Applied Learning in AFA Studies. (0.5-3 Credits)

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

#### AFA 349A. Cooperative Study: AFA Studies. (0.5-3 Credits)

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

#### AFA 349B. Cooperative Study: AFA Studies. (0.5-3 Credits)

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

#### AFA 349C. Cooperative Study: AFA Studies. (0.5-3 Credits)

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

#### AFA 349D. Cooperative Study: AFA Studies. (0.5-3 Credits)

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

#### AFA 349E. Cooperative Study: AFA Studies. (0.5-3 Credits)

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

#### AFA 356. African American Political Thought. (3 Credits)

A. Cross-listed as POL 356. Prerequisite: ENG 102(B) or ENG 105(B) or HON 105(B). Examination of political ideas espoused by African American activists from the nineteenth century to the present. Credit will not be awarded to students who have credit for POL 356. Gen. Ed. E-6.

#### AFA 360. Literatures of Africa. (3 Credits)

A. Cross listed as ENG 360. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. Survey of the genres and components of African literature, oral and written; study of how key concepts in African thought, culture and experiences are reflected in the literatures composed by writers from Africa or of African origins. Credit will not be awarded to students who have credit for ENG 360. Gen. Ed. Element 6.

#### AFA 361. African American Literature. (3 Credits)

A. Prerequisite ENG 102 or 102R or 105(B) or HON 102. Cross listed as ENG 361. Survey of selected works of African American literary traditions. Credit will not be awarded to students who have credit for ENG 361. Gen. Ed. Element 6.

**AFA 367. African Caribbean Literatures. (3 Credits)**

A. Cross listed as ENG 367. Prerequisites: ENG 102 or ENG 102R or ENG 105 (B) or HON 102. A study of selected literatures written by Caribbean writers of African descent. Credit will not be awarded for both AFA 367 and ENG 367.

**AFA 372S. Blacks in Madison County. (3 Credits)**

A. Through a service-learning approach this course provides an opportunity for students to research the historical people, institutions, and cultural factors that helped shape the experience of African-Americans in Madison County, Kentucky.

**AFA 378. Black Women in History. (3 Credits)**

A. Cross listed as WGS 378. Examines the lives of African-American women from slavery to the present with emphasis on the impact of race, gender, and class issues on their multi-faceted lives as women in America. Credit will not be awarded to students who have credit for WGS 378.

**AFA 385. Early African History. (3 Credits)**

A. Cross listed as HIS 385. Prerequisite: ENG 102, 105 (B) or HON 102. History of Africa from earliest times to 1860. Emphasis on social, political, economic, and cultural change in states and societies; oral tradition; the environmental and human activities; slavery and the slave trades. Credit will not be awarded to students who have credit for HIS 385.

**AFA 386. Modern African History. (3 Credits)**

A. Cross listed as HIS 386. ENG 102, 105 (B) or HON 102. History of Africa from the 19th century to the present. Themes include: trade and politics; European conquest and African resistance; rural survival and urban popular culture; race, class, gender, ethnicity, and age; African nationalism and independence. Credit will not be awarded to students who have credit for HIS 386.

**AFA 388. Islam in West Africa. (3 Credits)**

A. Cross listed as HIS 388. History of Islam and politics in West Africa from 1000 C.E. to the present. Emphasis on the role of Islam in major socioeconomic, political, and cultural transformations of West African states and societies. Credit will not be awarded to students who have credit for HIS 388.

**AFA 400. Race and Ethnicity. (3 Credits)**

A. Cross-listed as SOC 400. Prerequisites: SOC 131 or SOC 235; ENG 102 or ENG 102R or ENG 105(B) or HON 102. Analysis of the development of racial and ethnic relations from the perspective of sociology and related social sciences. Examination of issues related to dominant and minority group status in the United States and cross-culturally. Gen. Ed. E-6. Credit will not be awarded for both AFA 400 and SOC 400.

**AFA 435. U.S. Civil Rights Movement. (3 Credits)**

A. Cross listed as HIS 435. Prerequisites: three hours AFA or departmental approval. Examination through primary and secondary sources of the origins, course, ideologies, and legacy of the mid-twentieth century American movement for racial justice and equality. Discussion of the central scholarly issues in civil rights studies. Credit will not be awarded to students who have credit for HIS 435.

**AFA 495. Independent Study. (3 Credits)**

A. Prerequisites: AFA 201, AFA 202, and departmental approval. Individual study and/or research on a problem/topic pertaining to African, African American and/or African Caribbean experience. Student must have the independent study proposal form approved by the faculty supervisor and the program director prior to enrollment.

**AFA 510. African Textile Design. (3 Credits)**

(3) A. Prerequisite: AFA 201 or AFA 202 or Departmental Approval. This course investigates the symbolism of textile design in Africa, as it examines the developments in contemporary textile art within Africa and in the African Diaspora.

**History****HIS 098. Intro to World Civilizations. (3 Credits)**

A. A course to meet the PCC deficiency in Social Sciences. This course will emphasize the way in which history is researched and written and will foster an understanding of how other related disciplines assist in historical analysis. This course does not count toward graduation.

**HIS 100. World Topics to 1500:\_\_\_\_. (3 Credits)**

(3) A. Introductory exploration of a broad regional or thematic topic in world history prior to 1500. Credit will not be awarded to students who have credit for HIS 231 or 246. Limit to three credit hours. Gen. Ed. A-5A.

**HIS 101. World Topics Since 1500:\_\_\_\_. (3 Credits)**

(3) A. Introductory exploration of a broad regional or thematic topic in world history since 1500. Credit will not be awarded to students who have credit for HIS 147, 232, or 247. Limited to three credit hours. Gen. Ed. E-5A.

**HIS 102. American Civilization to 1877. (3 Credits)**

(3) A. Formerly: HIS 202. Transition from colonial to independent republic; social, cultural, and economic institutions derived from agrarian conditions; the influence of European foundations. Required of all majors and minors in history. Credit will not be awarded to students who have credit for HIS 202. Gen. Ed. E-5A.

**HIS 103. American Civilization Since 1877. (3 Credits)**

(3) A. Formerly: HIS 203. Conflicts between demands of an industrial society and agrarian values; interrelationships between world expressions and American experience. Required of all majors and minors in history. Credit will not be awarded to students who have credit for HIS 203. Gen-Ed E-5A.

**HIS 204W. Historical Inquiry:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 102 or ENG 105 (B) or HON 102 (B). Introductory exploration of a particular historical problem or theme. Satisfies university's sophomore writing-intensive requirement. Gen Ed VA, VC or VII (SBS).

**HIS 205. The Marginalized in History:\_\_\_\_. (3 Credits)**

(3). A. Introductory exploration of the experiences of specific historically marginalized groups or cultures. May be repeated up to 6 hours as long as content varies. Gen. Ed. Element 6.

**HIS 290. Historical Research and Methods. (3 Credits)**

I, II. HIS majors only. A comprehensive introduction to historical research, writing, and methodologies. Credit not awarded for HIS 201.

**HIS 299W. Research in History & English. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or 105 (B) or HON 102. Cross listed with ENG 299W. Collaboration focusing on disciplinary research methodology and recognizing disciplinary differences in approach by exploring a particular theme from various perspectives. Information literacy, reflection, research, and writing emphasized. This course will not be accepted for History or English non-teaching or teaching major requirements. May be retaken for a maximum of 6 credits, provided the topic differs each time. Credit will not be awarded for both ENG 299W and HIS 299W.

**HIS 300A. Topics in U.S. History:\_\_\_ (3 Credits)**

A. Movements in U.S. history that have influenced and continue to influence the course of American culture and civilization. May be retaken to a maximum of six hours provided topics vary.

**HIS 300B. Topics in European History. (3 Credits)**

A. Movements in European history that have influenced and continue to influence the course of European culture and civilization. May be retaken to a maximum of six hours provided topics vary.

**HIS 300C. Topics in Non-Western History:\_\_\_ (3 Credits)**

A. Movements in non-Western history that have influenced and continue to influence the course of non-Western cultures and civilization. May be retaken to a maximum of six hours provided topics vary.

**HIS 302A. Research Topics in History:\_\_\_ (3 Credits)**

I, II. Prerequisite or Corequisite: HIS majors only, HIS 290, and ENG 102, 105(B), or HON 102. Historical research and methodologies using case studies of specific movements in U.S. history that have influenced and continue to influence the course of cultures and civilizations. Formerly HIS 302.

**HIS 302B. Research Topics in History:\_\_\_ (3 Credits)**

I, II. Prerequisite: HIS majors only, HIS 290, and ENG 102, 105(B) or HON 102. Historical research and methodologies using case studies of specific movements in European history that have influenced and continue to influence the course of cultures and civilizations. Formerly HIS 302.

**HIS 302C. Research Topics in History:\_\_\_ (3 Credits)**

I, II. Prerequisite or Corequisite: HIS majors only, HIS 290, and ENG 102, ENG 105(B), or HON 102. Historical research and methodologies using case studies of specific movements in Non-Western history that have influenced and continue to influence the course of cultures and civilizations. Formerly HIS 302.

**HIS 303. Women in American History. (3 Credits)**

A. Cross listed as WGS 303. Prerequisite: three hours HIS or department approval. Social, economic, and cultural role of women in America. Women's work; social position and status; women in reform movements; feminism and the suffrage movements; the new feminism. Credit will not be awarded to students who have credit for WGS 303.

**HIS 304. Slavery in the Americas. (3 Credits)**

A. Cross listed as AFA 304. Prerequisite: three hours HIS or departmental approval. The history of slavery, bound labor, and freedom in the Western Hemisphere. Special attention will be given to anti-slavery and abolitionist movements. Credit will not be awarded to students who have credit for AFA 304.

**HIS 305. African-American History. (3 Credits)**

A. Cross listed as AFA 305. Prerequisite: three hours HIS or department approval. African history to 1500; Europe, Africa, and the Americas; trans-Atlantic and domestic slave trades; American slavery; emancipation; post-emancipation experiences and initiatives; persistence of black nationalism. Credit will not be awarded to students who have credit for AFA 305.

**HIS 307. Religion in American History. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105 (B), or HON 102. Examination of the impact of religious issues upon American history, including units on such questions as church-state relations and the role of religion in American perspectives on culture, ethnicity, gender, and social and economic change. Credit will not be awarded for both HIS 307 and HIS 300A: Religion in American History.

**HIS 308. Native Americans to 1830. (3 Credits)**

A. Prerequisite: ENG 102, 105 (B), or HON 102. Native American history from pre-contact to the Indian Removal Act of 1830. Emphasis placed on the nature and impact of encounters with Europeans.

**HIS 309. Native Americans since 1830. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105 (B), HON 102. Native American history from the Indian Removal Era to the present. Emphasis placed on both native perspectives and federal policies.

**HIS 310. History of Science. (3 Credits)**

A. The development of scientific concepts through the ages, contribution of science to civilization, philosophy of science, and biographical sketches. Credit will not be awarded for both HIS 310 and SCI 310.

**HIS 312. Independent Study in History. (3 Credits)**

A. Individual research and/or reading on a problem area in history. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**HIS 312A. Independent Study in History:\_\_\_ (3 Credits)**

A. Individual research and/or reading on a problem area in U.S. history. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**HIS 312B. Independent Study in History:\_\_\_ (3 Credits)**

A. Individual research and/or reading on a problem area in European history. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**HIS 312C. Independent Study in History:\_\_\_ (3 Credits)**

A. individual research and/or reading on a problem area in Non-Western history. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**HIS 319. Topics in 20th Century U.S. History:\_\_\_ (3 Credits)**

(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of the United States during the Twentieth Century. May be retaken to a maximum of six hours provided topics vary.

**HIS 321. Islamic Societies to 1800. (3 Credits)**

Prerequisite: ENG 102, 105 (B), or HON 102. Islamic societies in the Middle East, Central and Southern Asia, North Africa, and Spain from seventh to eighteenth century. Origins and spread of Islamic civilization. Spiritual foundations, institutions, politics, and art. Florescence of "gunpowder empires."

**HIS 322. History of the Modern Middle East. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105 (B), HON 102. Study of the history of the modern Middle East from the close of the 18th century to the present, with emphasis on the religious, social, cultural, and political dimensions of societies in the region.

**HIS 324. Iran- State, Religion & Society. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), or HON 102. Iran from ancient to contemporary times with the emphasis on the modern period, with particular attention to politics, religion, and culture. Zoroastrianism, Islam, Tobacco Revolt, Constitutional Revolution, the Pahlavis and the 1953 coup, Islamic Revolution.

**HIS 331. Topics in Ancient Egypt/Near Eastern History:\_\_\_.** (3 Credits)  
(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of Ancient Egypt or the Near East (including Iraq, Iran, Turkey, and Israel) from the earliest human activity to the Greco-Roman Period. May be retaken to a maximum of six hours provided topics vary.

**HIS 336. Greco-Roman Civilization.** (3 Credits)  
A. Prerequisite: ENG 102, 105 (B), or HON 102. Greek society and culture; emergence of the Roman Republic; the Roman Empire.

**HIS 339. The Dark Ages Illuminated.** (3 Credits)  
A. Prerequisite: ENG 102, 105 (B), or HON 102. The collapse of the Classical world; the Germanic migrations; early Byzantine and Islamic civilizations; the Carolingians; the church and society; feudalism; commercial and urban revival; the rise of territorial states and the beginnings of European expansion.

**HIS 343. The Renaissance & Reformation.** (3 Credits)  
A. Prerequisites: ENG 102, 105(B), or HON 105I. European society, culture, economy and politics, 1348-1689. "Black Death" and its impact; Italian Renaissance humanism and art; Christian humanism and European expansion in the age of Columbus; Protestant and Catholic reform movements; religious wars. Credit will not be awarded to students who have credit for HIS 344.

**HIS 349. Applied Learning in History.** (0.5-8 Credits)  
A. Prerequisite: departmental approval. Does not apply toward a major or minor in history. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**HIS 349A. Cooperative Study: History.** (0.5-8 Credits)  
A. Prerequisite: departmental approval. Does not apply toward a major or minor in history. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**HIS 349B. Cooperative Study: History.** (0.5-8 Credits)  
Does not apply toward a major or minor in history. Work in placements related to academic studies.

**HIS 349C. Cooperative Study: History.** (0.5-8 Credits)  
Does not apply toward a major or minor in history. Work in placements related to academic studies.

**HIS 351. Topics in English History:\_\_\_.** (3 Credits)  
(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of England. May be retaken to a maximum of six hours provided topics vary.

**HIS 359. Topics in Modern European History:\_\_\_.** (3 Credits)  
(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of Modern Europe since 1648. May be retaken to a maximum of six hours provided topics vary.

**HIS 361. Topics in the History of Eurasia:\_\_\_.** (3 Credits)  
(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of Eurasia. May be retaken to a maximum of six hours provided topics vary.

**HIS 365. Russia-Revolutions & Reform.** (3 Credits)  
A. Prerequisites: ENG 102, 105(B), or HON 102. Cultural, social, economic and political events leading to the 1917 Revolution. The history of the Soviet Union including its break-up into independent states.

**HIS 370. World History Since 1945.** (3 Credits)  
(3) A. Formerly HIS 347. Prerequisites: ENG 102, 105(B), or HON 102. Global consequences of World War II, the Cold War, decolonization, and superpower interventionism. The transition from a bipolar to a multipolar international system, the collapse of communism, and the spread of terrorism. Credit will not be awarded to students who have credit for HIS 347.

**HIS 374. East Asian History to 1600.** (3 Credits)  
A. Prerequisites: ENG 102, 105 (B), or HON 102. China and Japan from the beginnings of East Asian civilization in Neolithic times to the early modern period; the development of key social, economic, and political institutions; the Confucian tradition and the introduction of Buddhism; the Mongol era; the late imperial order in China and the emergence of Japanese feudalism.

**HIS 376. Japan-Samurai to Superpower.** (3 Credits)  
A. Formerly HIS 475. Prerequisites: ENG 102, 105(B), or HON 102. Japan from 1600 to the present. Included will be the arrival of the West, industrialization, militarism, World War II, and Japan as economic superpower. Credit will not be awarded to students who have credit for HIS 475.

**HIS 379. China- Empire and Revolution.** (3 Credits)  
A. Formerly HIS 474. Prerequisites: ENG 102, 105(B), or HON 102. Han Chinese dissent and collaboration under Qing (Manchu) rule; conflicts with the West; rapid economic and cultural change; Revolution of 1911; Nationalist-Communist civil war and Japanese Occupation; Great Leap Forward, Cultural Revolution, and Tiananmen Square. Credit will not be awarded to students who have credit for HIS 474.

**HIS 384. Modern Latin America Modern Latin America.** (3 Credits)  
A. Prerequisites: ENG 102, 105 (B), or HON 102. The national period in Latin American history, with emphasis on dependency theory, Roman Catholicism in the region, and United States-Latin American relations.

**HIS 385. Early African History.** (3 Credits)  
A. Cross listed as AFA 385. Prerequisites: ENG 102, 105 (B) or HON 102. History of Africa from earliest times to 1860. Emphasis on social, political, economic, and cultural change in states and societies; oral tradition; the environmental and human activities; slavery and the slave trades. Credit will not be awarded to students who have credit for AFA 385.

**HIS 386. Modern African History.** (3 Credits)  
A. Cross listed as AFA 386. Prerequisite: ENG 102, 105 (B) or HON 102. History of Africa from the 19th century to the present. Themes include: trade and politics; European conquest and African resistance; rural survival and urban popular culture; race, class, gender, ethnicity, and age; African nationalism and independence. Credit will not be awarded to students who have credit for AFA 386.

**HIS 401. American Colonial Period.** (3 Credits)  
A. Prerequisite: three hours HIS or department approval. Political and social history of the 13 colonies and their neighbors; European background; settlement; westward expansion; intercolonial conflicts; beginnings of culture; colonial opposition to imperial authority.

**HIS 402. Revolutionary America.** (3 Credits)  
A. Prerequisite: three hours HIS or department approval. Colonial background of Revolution; internal and external nature of Revolution; problems associated with Confederation; events leading to the American Constitution.

**HIS 405. America's Westward Expansion. (3 Credits)**

A. Prerequisite: three hours HIS or department approval. Examination of pre-contact, colonial, and American western histories; role of Indigenous peoples; migration and immigration; extractive industries; federal authority.

**HIS 413. Cold War U.S., 1945-1991. (3 Credits)**

A. Prerequisites: ENG 102, 105(B), or HON 102; three hours HIS or department approval. Cold War competition from a U.S. perspective. Covers Keynesian and Supply-Side economics, and organized labor. Containment in Europe and the Third World, emphasizing Vietnam. Impact of race, gender, and sexuality on culture and society.

**HIS 416. Kentucky History. (3 Credits)**

(3) A. Prerequisite: ENG 102, 105 (B), or HON 102, three hours HIS, or departmental approval. Kentucky's social, economic and political development from frontier times to the present day. The Kentucky experience of such national trends as migration, urbanization, industrialism and expanding government. Credit will not be awarded for both HIS 416 and HIS 516.

**HIS 420. Appalachia in U.S. History. (3 Credits)**

A. Cross listed as APP 420. Prerequisites: ENG 102, 105(B), or HON 102; three hours HIS or department approval. The relationship between Appalachia and the rest of the United States. Topics include the "yeoman" myth, coal industrialization, settlement houses, company towns, and the identification of the region with poverty. Credit will not be awarded to students who have credit for APP 420.

**HIS 424. Civil War and Reconstruction. (3 Credits)**

A. Prerequisite: three hours HIS or department approval. Civil War era explored through culture, politics, society, the military, race, gender, and sexuality. Emphasis on the role of slavery and race in the antebellum sectional crisis, the war, Reconstruction, and memory.

**HIS 435. U.S. Civil Rights Movement. (3 Credits)**

A. Cross listed as AFA 435. Prerequisites: three hours HIS or departmental approval. Examination through primary and secondary sources of the origins, course, ideologies, and legacy of the mid-twentieth century American movement for racial justice and equality. Discussion of the central scholarly issues in civil rights studies. Credit will not be awarded to students who have credit for AFA 435.

**HIS 450W. Senior Seminar in History. (3 Credits)**

A. Prerequisites: ENG 102, 105 (B) or HON 102; HIS major; HIS 200, 201, or 290; and six hours of the following: HIS 302A, 302B, 302C. Research and writing in History. Credit not awarded to students who have credit for HIS 450.

## Philosophy

**PHI 101. Logic and Critical Reasoning. (3 Credits)**

(3) A. Prerequisite: ACT scores: Math 19 or higher; Reading 20 or higher; and English 18 or higher or ENG 101 or 101R(C) or minimum placement test score. Introductory course in the analysis and evaluation of arguments, with primary focus on deductive validity and the systems of categorical and propositional logic. Credit will not be awarded to students who have credit for PHI 101R. Gen. Ed. E-2.

**PHI 101R. Logic and Critical Reasoning (Supported). (4 Credits)**

(4) A. Prerequisite: ACT scores: Reading 20 or higher; and English 18 or higher or ENG 101 or 101R(C) or minimum placement test score. Introductory course in the analysis and evaluation of arguments, with a primary focus on deductive validity and the systems of categorical and propositional logic. Credit will not be awarded to students who have credit for PHI 101. Gen. Ed. E-2.

**PHI 110. Beginning Philosophy. (3 Credits)**

I, II. Basic introductory course in philosophy. Consideration of perennial questions of the human experience, especially questions about reality, knowledge, self, values, and religious belief. Credit will not be awarded to students who have credit for PHI 110W. Gen. Ed. Element 3B.

**PHI 110W. Beginning Philosophy: Writing Intensive. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102 (B). A writing-intensive basic introductory course in philosophy. Consideration of perennial questions of the human experience, especially questions about reality, knowledge, self, values, and religious belief. Credit will not be awarded to students who have credit for PHI 110. Gen. Ed. Element 3B.

**PHI 130. Beginning Ethics. (3 Credits)**

I, II. Survey of theories concerning the nature of right and wrong, emphasizing how these theories can be applied to personal moral choices. Credit will not be awarded for both PHI 130 and PHI 130S. Gen. Ed. Element 3B.

**PHI 130S. Beginning Ethics. (3 Credits)**

(3) I, II. Survey of theories concerning the nature of right and wrong, emphasizing how these theories can be applied to personal moral choices, enhanced with a service learning component. Credit will not be awarded for both PHI 130S and PHI 130. Gen. Ed. E-3B.

**PHI 240. Philosophy of Religion. (3 Credits)**

A. Study of religious experience, faith and knowledge, the nature and existence of God, the problem of evil, religious ethics, and religious language. Credit will not be awarded to students who have credit for PHI 240W. Gen. Ed. Element 3B.

**PHI 240W. Philosophy of Religion: Writing Intensive. (3 Credits)**

A. Prerequisites: ENG 102, or ENG 105, or HON 102. Study of religious experience, faith and knowledge, the nature and existence of God, the problem of evil, religious ethics, and religious language. Credit will not be awarded to students who have credit for PHI 240. Gen. Ed. Element 3B.

**PHI 300. Greek and Roman Philosophy. (3 Credits)**

A. Survey of philosophical thought as seen through an examination of selected issues and selected philosophers from ancient Greece through the early Roman period. Credit will not be awarded to students who have credit for PHI 300W. Gen. Ed. Element 3B.

**PHI 300W. Greek & Roman Philosophy: W. (3 Credits)**

A. Prerequisite: ENG 102, or ENG 105 (B), or HON 102 (B). Survey of philosophical thought as seen through an examination of selected issues and selected philosophers from ancient Greece through the early Roman period. Credit will not be awarded to students who have credit for PHI 300. Gen. Ed. Element 3B.

**PHI 310. Medieval Philosophy. (3 Credits)**

A. Study of Christian, Jewish, and Islamic philosophical thought in the Middle Ages and of Renaissance scholasticism. Issues in various areas of philosophical inquiry are examined through selected readings from Augustine to Suarez.

**PHI 320. Modern Philosophy. (3 Credits)**

A. Examination of some major issues and some major philosophers from the 17th and 18th centuries. Gen. Ed. Element 3B.

**PHI 330. Twentieth Century Philosophy. (3 Credits)**

A. A survey of the principal schools of philosophic thought of the twentieth century in Europe and America, with special attention to the important issues which emerge.

**PHI 332. Existentialism & Postmodernism. (3 Credits)**

A. Study of the influence of such existentialists as Nietzsche, Husserl, Sartre, de Beauvoir, and Heidegger on contemporary postmodern theories such as Foucault, Baudrillard, Derrida, Kristeva, and Irigaray.

**PHI 340. Philosophy of Science. (3 Credits)**

A. How views of reality, knowledge, and values relate to science and scientists. Philosophical assumptions of science examined through historical examples of scientific investigations. The value and the values of scientific methods and scientific theories. Credit will not be awarded to students who have credit for PHI 340W. General Education VIII (Option 3).

**PHI 340W. Philosophy of Science: W. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102 (B). A writing-intensive basic introductory course in philosophy of science. How views of reality, knowledge, and values relate to science and scientists. Philosophical assumptions of science examined through historical examples of scientific investigations. The value and the values of scientific methods and scientific theories. Credit will not be awarded to students who have credit for PHI 340. General Education VIII (Option 3).

**PHI 342. American Philosophy. (3 Credits)**

A. A critical examination of basic beliefs held by Americans regarding themselves, their culture, and world, through the thought of modern American philosophers such as Royce, Peirce, James, Santayana, Woodbridge, Dewey, and Whitehead.

**PHI 349. Applied Learning in Philosophy. (0.5-8 Credits)**

A. Prerequisite: consult with department chair before enrolling. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**PHI 350. Metaphysics. (3 Credits)**

A. An elaboration of the various approaches to metaphysics in the history of philosophy, including contemporary anti-metaphysical points of view.

**PHI 352. Theory of Knowledge. (3 Credits)**

A. An examination of the nature, possibility, limits, sources and value of knowledge of minds and the world.

**PHI 360. Ethical Theory and Practice. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105 (B), or HON 102; PHI 110 or 130. An advanced course in ethics that examines the intersection of ethical theory and practical ethics. Topics include major ethical theories, the nature and aims of applied ethics, and critical and creative thinking in ethical problem-solving.

**PHI 362. Technology and Values. (3 Credits)**

A. An examination of philosophical issues related to science, technology, public health, economics, and the environment, with special attention being given to the personal and social ethical issues that arise in these contexts. Gen. Ed. VIII.

**PHI 371. Symbolic Logic. (3 Credits)**

A. Basic introduction to modern symbolic logic: propositional logic, first order predicate logic, proofs and metaproofs, and nature and properties of formal logic systems. Gen. Ed. VII (QS).

**PHI 381. Animal Ethics. (3 Credits)**

A. An examination of major theories of animal welfare and rights; consideration of issues involving the use of animals as food and other goods, animal experimentation, wildlife, endangered species, hunting, animals and sport, pets, and zookeeping.

**PHI 383. Health & Biomedical Ethics. (3 Credits)**

A. An examination of the value-issues which surround problems that arise in health-related fields and whose resolution calls for moral judgments. Typical problems would include: euthanasia, experimentation with humans, behavior control, genetic engineering, and distribution of health care facilities. Credit will not be awarded for both PHI 383 and PHI 383W.

**PHI 383W. Health and Biomedical Ethics. (3 Credits)**

A. Prerequisite: ENG 102 or 105(B) or HON 102. An examination of the value-issues which surround problems that arise in health-related fields and whose resolution calls for moral judgments. Typical problems would include: euthanasia, experimentation with humans, behavior control, genetic engineering, and distribution of health care facilities. Credit will not be awarded for both PHI 383 and PHI 383W.

**PHI 385. Environmental Ethics. (3 Credits)**

A. Prerequisite: ENG 102 or 102R or ENG 105 (B) or HON 102. An examination of historical and contemporary views of the values and rights of nature. Possible topics include animal rights, conservationism, the land ethic, stewardship, deep ecology, ecofeminism, and indigenous approaches to the environment. Credit will not be awarded for both PHI 385 and ENV 385.

**PHI 388. Special Topics in Ethics. (1-3 Credits)**

A. An examination of ethical theories, of major ethical thinkers, or of an applied ethical field like business ethics or environmental ethics. May be retaken to a maximum of fifteen hours if the topic is different.

**PHI 390. Special Topics in Philosophy. (1-3 Credits)**

A. Prerequisite: consult with department chair before enrolling. Detailed examination of a problem-area or a school of philosophy in the history of philosophy or the thought on one outstanding philosopher. May be retaken to a maximum of fifteen hours if the topic is different.

**PHI 432. Philosophy of Art. (3 Credits)**

A. Examination of the major philosophical theories of art and beauty and the place of aesthetic language in the general area of value judgments. Representative classical and contemporary figures will be considered.

**PHI 490. Independent Work in Philosophy. (1-3 Credits)**

(1-3) I, II. Prerequisite: consult with department chair before enrolling. Individual research and reading on a specified philosophical problem chosen by the student and instructor. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours if topic is different.

**PHI 499. Senior Project. (3 Credits)**

A. Prerequisite: Departmental Approval. Supervised, independent project for seniors majoring in philosophy.

**PHI 551. Classical Political Theory. (3 Credits)**

A. Cross-listed as POL 551. Examination of Western political thought from Plato to Aquinas. Credit will not be awarded to students who have credit for POL 551, POL 551W or PHI 551W.

**PHI 551W. Classical Political Theory. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102 (B). Cross-listed as POL 551W. Examination of Western political theory from Plato to Aquinas. Credit will not be awarded to students who have credit for POL 551, POL 551W or PHI 551.

**PHI 552. Modern Political Theory. (3 Credits)**

A. Cross-listed as POL 552. Examination of Western political theory from the Renaissance to the mid-twentieth century. Credit will not be awarded to students who have credit for POL 552, POL 552W or PHI 552W.

**PHI 552W. Modern Political Theory. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Cross-listed as POL 552W. Examination of Western political theory from the Renaissance to mid-twentieth century. Credit will not be awarded to students who have credit for POL 552, POL 552W or PHI 552.

**PHI 553. Contemporary Political Theory. (3 Credits)**

A. Cross-listed as POL 553. Examination of Western political theory from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for POL 553, POL 553W or PHI 553W.

**PHI 553W. Contemp Political Theory: W. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Cross-listed as POL 553W. Examination of Western political theory from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for POL 553, POL 553W or PHI 553.

**Religious Studies****REL 301. World Religions. (3 Credits)**

I, II. Study of the basic notions found in the world's great religions. Attention is given to the historical context of the development of these religions and to the doctrines, rituals and literature produced by them. Credit will not be awarded to students who have credit for REL 301W. Gen. Ed. Element 3B.

**REL 301W. World Religions: Writing Intensive. (3 Credits)**

I, II. Prerequisite: ENG 102, or ENG 105 (B), or HON 102 (B). Study of the basic notions found in the world's great religions. Attention is given to the historical context of the development of these religions and to the doctrines, rituals and literature produced by them. Credit will not be awarded to students who have credit for REL 301. Gen. Ed. IIIB or VII (AH).

**REL 302. Theories of Religion. (3 Credits)**

(3) A. Prerequisite: ENG 102 or ENG 105(B) or HON 102. An overview of methods used by scholars to study religions, and a introduction to several influential theories that have shaped the field of religious studies from the nineteenth century to the present.

**REL 305. Survey of Old Testament. (3 Credits)**

I. A survey of the history and religious development of the ancient Hebrews, with attention given to the religious concepts and values of the literature of the Old Testament.

**REL 306. Survey of the New Testament. (3 Credits)**

II. A study of the history of the New Testament times and an examination of the meanings and significance of the teachings of Jesus and the writings of the early Church.

**REL 315. History of Christian Thought. (3 Credits)**

A. A survey of Christian theology, philosophical theology, and spirituality from the Apostolic Fathers through the early Reformation period.

**REL 320. Judaism. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105(B) or HON 102. This course introduces students to the main beliefs and practices of Judaism. Students will read a broad selection of primary sources ranging from the Hebrew Bible to contemporary Jewish thought in the United States. Gen. Ed. Element 6.

**REL 335. Islam. (3 Credits)**

A. Prerequisite: ENG 102 or 105(B) or HON 102. A study of the origins and religious development of Islam by an examination of the Koran and the writings of some major Islamic thinkers. GEN. ED. E-6.

**REL 340. Religions of India. (3 Credits)**

A. Prerequisite: ENG 102 or 105(B) or HON 102. Study of the major religions of India including the Vedic Period, classical systems, Epic Period, heterodox systems, orthodox systems, and contemporary thought. Gen Ed. Element 6.

**REL 345. Religions of China and Japan. (3 Credits)**

A. Prerequisite: ENG 102 or Eng 105(B) or HON102. Study of the major religions of China and Japan, including original Han, Confucianism, Cho Schools, Neo-Taoism, Shinto, and Chinese and Japanese Buddhism. Gen. Ed. E-6.

**REL 349. Applied Learning in Religion. (1-8 Credits)**

A. Prerequisite: consult with department chair before enrolling. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**REL 349A. Cooperative Study: Religion. (1-8 Credits)**

A. Prerequisite: consult with department chair before enrolling. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**REL 350. Buddhism. (3 Credits)**

A. Prerequisite: ENG 102 or 105(B) or HON 102. A critical introduction to the main beliefs and practices of Buddhism, from its origins in India to its most traditional manifestations in Asia and its latest developments in Europe and North America. Gen. Ed. E-6.

**REL 355. Religions of Africa. (3 Credits)**

A. A study of traditional African religions and other religions in Africa.

**REL 360. Religion & Global Ethics. (3 Credits)**

A. An examination of recent proposals for a global ethics (Peter Singer, Hans Kung, Dalai Lama), and on the theory and practice of interreligious dialogue as a possible means to arrive at cross-cultural ethical perspectives.

**REL 365. Women, Gender, and Religion. (3 Credits)**

(3) A. Cross-listed as WGS 365. Prerequisite: ENG 102 or 105(B) or HON 102. A study of the intersections between feminism and the social impact of religion throughout the world with particular emphasis on the relationship between religion and gender, sexuality, and body politics. Credit will not be awarded for both REL 365 and WGS 365.

**REL 370. Special Topics in Religion. (1-3 Credits)**

A. Prerequisite: consult with department chair before enrolling. Intensive study of a selected topic or an important figure in religion. May be retaken to a maximum of fifteen hours if the topic is different.

**REL 495. Independent Work in Religion. (3 Credits)**

I, II. Prerequisite: consult with department chair before enrolling. Individual study under the direction of an instructor on a special topic in religion. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours if topic is different.

## African and African American Studies, Certificate

### Program Requirements

A student may complete a certificate in African and African American Studies by taking 12 hours as indicated below.

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
AFA 201 or AFA 201W	The African Experience	3
AFA 202 or AFA 202W	The African American Experience	3
<i>Electives</i>		
Choose from six hours of the following:		6
AFA 200	Exploring Africa Through Play	
AFA 304	Slavery in the Americas	
AFA 305	African American History	
AFA 330	U.S. South and Black Education	
AFA 345	Minority Group Politics	
AFA 347	Special Topics in AFA Studies	
AFA 349	Applied Learning in AFA Studies	
AFA 356	African American Political Thought	
AFA 360	Literatures of Africa	
AFA 361	African American Literature	
AFA 367	African Caribbean Literatures	
AFA 385	Early African History	
AFA 386	Modern African History	
AFA 388	Islam in West Africa	
AFA 400	Race and Ethnicity	
AFA 435	U.S. Civil Rights Movement	
AFA 495	Independent Study	
AFA 510	African Textile Design	
CDF 424	Diversity Awareness Prof Prac	
<b>Total Hours</b>		<b>12</b>

## African and African American Studies, Minor

Dr. Ogechi Anyanwu, Director  
Ogechi.anyanwu@eku.edu

African and African American Studies explores the histories, societies, and cultures of Africans and people of African descent throughout the Diaspora. Courses are offered from a broad range of disciplines, including the arts and humanities, social sciences, law enforcement, education, and health sciences. The program awards an undergraduate minor and a certificate in African and African American Studies.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
<i>Core Courses</i>		

AFA 201 or AFA 201W	The African Experience	3
AFA 202 or AFA 202W	The African American Experience	3
<i>Electives</i>		
Choose from 12 hours of the following:		12
AFA 200	Exploring Africa Through Play	
AFA 304	Slavery in the Americas	
AFA 305	African American History	
AFA 330	U.S. South and Black Education	
AFA 345	Minority Group Politics	
AFA 347	Special Topics in AFA Studies	
AFA 349	Applied Learning in AFA Studies	
AFA 356	African American Political Thought	
AFA 360	Literatures of Africa	
AFA 361	African American Literature	
AFA 367	African Caribbean Literatures	
AFA 385	Early African History	
AFA 386	Modern African History	
AFA 388	Islam in West Africa	
AFA 400	Race and Ethnicity	
AFA 435	U.S. Civil Rights Movement	
AFA 495	Independent Study	
AFA 510	African Textile Design	
CDF 424	Diversity Awareness Prof Prac	
<b>Total Hours</b>		<b>18</b>

## Applied Ethics, Minor Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
PHI 101 or PHI 101R	Logic and Critical Reasoning	3-4
PHI 130 or PHI 130S	Beginning Ethics	3
PHI 360	Ethical Theory and Practice	3
Choose from six hours of the following:		6
PHI 362	Technology and Values	
PHI 381	Animal Ethics	
PHI 383/383W	Health & Biomedical Ethics	
PHI 385	Environmental Ethics	
REL 360	Religion & Global Ethics	
Choose from three hours from one of the following:		3
PHI 349	Applied Learning in Philosophy	
PHI 388	Special Topics in Ethics	
PHI 490	Independent Work in Philosophy	
A course outside the department with the approval of the department chair		
<b>Total Hours</b>		<b>18-19</b>

## Asian Studies, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
Choose from two core courses from two distinct areas		6
<i>Electives</i>		
Choose from two courses from the list of electives for the Minor in Asian Studies or Asian-specific courses from other programs with departmental approval		6
<b>Total Hours</b>		<b>12</b>

At least six hours at the 300 level or above.

## Asian Studies, Minor

Dr. Abraham Velez de Cea, Director  
Keith 331  
(859) 622-2939  
asianstudies.eku.edu/ (<http://asianstudies.eku.edu/>)

Asian Studies at Eastern Kentucky University provides an understanding of Asia through a critical examination of the cultures, societies, languages, histories, religions, and politics of Asians and peoples of Asian descent throughout the world. An understanding of Asia enhances not only students' understanding of the world but also their prospects for employment in a wide variety of fields, including but not limited to international trade and industry, teaching and research, translation and interpretation, foreign policy and diplomacy, human rights and development, and immigration and social service. The program offers a minor (18 hours) and a certificate (12 hours) in Asian Studies.

A student may minor in Asian Studies by completing a minimum of 18 semester hours from at least three different departments; at least 9 hours at the 300 level or above.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
<i>Language and Immersion</i>		
Choose from one of the following: (or higher levels)		6
CHN 101 & CHN 102	Conversational Chinese I and Conversational Chinese II	
JPN 101 & JPN 102	Conversational Japanese I and Conversational Japanese II	
FLS 101 & FLS 102	Language Topics:____ and Language Topics:____ (Arabic, Chinese, or any other Asian language)	
Six hours of study abroad in any Asian country		
Three hours of study abroad in any Asian country plus three hours of a language (101 level or higher) indigenous to that country		
<i>Core Courses</i>		
Students must take one core course each from two distinct areas:		
Religion and Culture:		
Choose from one of the following:		3
REL 335	Islam	

REL 340	Religions of India	
REL 345	Religions of China and Japan	
REL 350	Buddhism	
History and Society:		
Choose from one of the following:		3
HIS 321	Islamic Societies to 1800	
HIS 322	History of the Modern Middle East	
HIS 374	East Asian History to 1600	
HIS 379	China- Empire and Revolution	
<i>Electives</i>		
Choose from six hours of electives of all Asian language courses, all the "core courses" listed above, and any of the following:		6
CHN 101	Conversational Chinese I	
CHN 102	Conversational Chinese II	
CHN 201		
CHN 202		
ENG 345	Literature and Film <sup>1</sup>	
FCC 210	Topics in Culture:____ <sup>1</sup>	
FCC 227	Japanese Culture and Civilization	
FLS 201		
FLS 202		
HIS 204W	Historical Inquiry:____ <sup>1</sup>	
HIS 205	The Marginalized in History:____	
HIS 300C	Topics in Non-Western History:____ <sup>1</sup>	
HIS 302C	Research Topics in History:____ <sup>1</sup>	
HIS 312C	Independent Study in History:____ <sup>1</sup>	
HIS 324	Iran- State, Religion & Society	
HIS 361	Topics in the History of Eurasia:____	
HIS 376	Japan-Samurai to Superpower	
HON 307W	Honors Seminar in the Arts:____ <sup>1</sup>	
HON 308W	Honors Seminar in the Humanities:____ <sup>1</sup>	
HON 310W	Honors Seminar in History:____ <sup>1</sup>	
HON 312W	Honors Seminar in the Social and Behavioral Sciences:____ <sup>1</sup>	
HON 320W	Honors Seminar in Diversity of Perspectives and Experiences:____ <sup>1</sup>	
HUM 360	Topics in Non-Western Traditions: ____ <sup>1</sup>	
HUM 395	Independent Work in Humanities <sup>1</sup>	
HUM 490	Topics in Humanities:____ <sup>1</sup>	
IES 333	Study Abroad:____	
JPN 101	Conversational Japanese I	
JPN 102	Conversational Japanese II	
JPN 201	Intermediate Japanese I	
JPN 202	Intermediate Japanese II	
JPN 295	Independent Work in Japanese	
JPN 495	Independent Work in Japanese	
MUH 373	The Diverse Worlds of Music <sup>1</sup>	
PHI 390	Special Topics in Philosophy <sup>1</sup>	
POL 318	Politics of the Middle East	
PSY 497	Advanced Topics in Psychology:____ <sup>1</sup>	
REL 301	World Religions	
REL 360	Religion & Global Ethics	
REL 370	Special Topics in Religion <sup>1</sup>	

SOC 350	Selected Topics in Sociology
UNP 200	Study Abroad:____ <sup>1</sup>
UNP 300	Study Abroad:____ <sup>1</sup>
UNP 400	Study Abroad:____ <sup>1</sup>
UNP 500	Study Abroad:____ <sup>1</sup>

**Total Hours** **18**

1

Topic must relate crucially to Asia; check with Director of Asian Studies Program

## History, Bachelor of Arts (B.A.)

### Program Objectives

Upon successful completion of this program, graduates will be able to:

1. demonstrate knowledge of U.S. history, European history, and selected aspects of non-Western history at a high level;
2. demonstrate their ability to communicate effectively in both oral and written form (all students in the program will complete term papers as part of their major requirements); and
3. execute a major research project utilizing both primary and secondary sources.

All students in the baccalaureate program will submit prior to graduation a formal research project which includes both primary and secondary sources.

Because the program puts history into real-world application, it offers many unique pathways to prepare students for careers in: public history, education, media, the legal field, government, non-governmental organizations including non-profits, and business/management. And students can complete any of the career preparation pathways in just four years!

While a major in History Teaching prepares students to teach high school Social Studies or to join the educational arm of such entities as historical museums and sites, majoring in History provides students with the research skills and critical thinking and communication capabilities applicable and essential to any path they pursue post-graduation. More importantly, by combining a History major with a second major or minor in such areas as communications, political science, geography, business, or tourism and recreation, students gain profession-specific skills. They also acquire real world-experience because many of these majors require or stress completing an internship. Completion of one of History's career pathways prepares a student for pursuing such opportunities as: curatorial positions in museums and historical sites, video production, broadcasting including reporting, publishing, event planning and promotion, employment with state and federal agencies or international and non-profit organizations, and entry into graduate or professional programs such as law school.

For more information on the career preparation pathways offered by the department go to [www.history.eku.edu](http://www.history.eku.edu) (<http://www.history.eku.edu>) or contact the department at the number provided above.

### Program Requirements

CIP Code: 54.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – History majors will fulfill ACCT with the following. (Credit hours incorporated into Major or Supporting requirements)		
HIS 450W	Senior Seminar in History	
<b>Major Requirements</b>		
<i>Core Courses</i>		
Choose from one of the following:		3
HIS 100	World Topics to 1500:____	
HIS 101	World Topics Since 1500:____	
HIS 147		
HIS 102	American Civilization to 1877	3
HIS 103	American Civilization Since 1877	3
HIS 290	Historical Research and Methods	3
HIS 450W	Senior Seminar in History	3
Choose from 21 upper division hours with a minimum of six hours in each of the following distribution areas: <sup>1,2</sup>		21
Area I (U.S.):		
HIS 300A	Topics in U.S. History:____	
HIS 302A	Research Topics in History:____ <sup>2</sup>	
HIS 303	Women in American History	
HIS 304	Slavery in the Americas	

HIS 305	African-American History
HIS 307	Religion in American History
HIS 309	Native Americans since 1830
HIS 312A	Independent Study in History:___
HIS 319	Topics in 20th Century U.S. History:___
HIS 401	American Colonial Period
HIS 402	Revolutionary America
HIS 405	America's Westward Expansion
HIS 413	Cold War U.S., 1945-1991
HIS 416	Kentucky History
HIS 420	Appalachia in U.S. History
HIS 424	Civil War and Reconstruction
HIS 435	U.S. Civil Rights Movement
<b>Area II (Europe):</b>	
HIS 300B	Topics in European History
HIS 302B	Research Topics in History:___ <sup>2</sup>
HIS 310	History of Science
HIS 312B	Independent Study in History:___
HIS 336	Greco-Roman Civilization
HIS 339	The Dark Ages Illuminated
HIS 343	The Renaissance & Reformation
HIS 351	Topics in English History:___
HIS 359	Topics in Modern European History:___
HIS 361	Topics in the History of Eurasia:___
HIS 365	Russia-Revolutions & Reform
<b>Area III (Non-Western):</b>	
HIS 300C	Topics in Non-Western History:___
HIS 302C	Research Topics in History:___ <sup>2</sup>
HIS 308	Native Americans to 1830
HIS 312C	Independent Study in History:___
HIS 321	Islamic Societies to 1800
HIS 322	History of the Modern Middle East
HIS 324	Iran- State, Religion & Society
HIS 331	Topics in Ancient Egypt/Near Eastern History:___
HIS 370	World History Since 1945
HIS 374	East Asian History to 1600
HIS 376	Japan-Samurai to Superpower
HIS 379	China- Empire and Revolution
HIS 384	Modern Latin America Modern Latin America
HIS 385	Early African History
HIS 386	Modern African History
<b>Free Electives</b>	
Choose from 47 hours of free electives	47
At least three hours of one foreign language is strongly recommended. Students who plan to pursue a graduate degree are strongly encouraged to take at least six hours of a foreign language which will also serve to fulfill Gen Ed Element 6.	
<b>Total Hours</b>	<b>120</b>

1

Including two of the following three courses: HIS 302A Research Topics in History:\_\_\_, HIS 302B Research Topics in History:\_\_\_, HIS 302C Research Topics in History:\_\_\_

2

The remaining upper division history course may come from any of the above areas or from other upper division history courses except HIS 302A Research Topics in History:\_\_\_, HIS 302B Research Topics in History:\_\_\_, HIS 302C Research Topics in History:\_\_\_

## History, Bachelor of Arts (B.A.) & Master of Arts (M.A.) Accelerated 3 + 2 Dual Degree Program

### Program Requirements

Students accepted to the 3+2 Accelerated Dual Degree Option are able to complete their B.A. degree and M.A. degree within 5 calendar years because up to 9 semester hours of graduate-level coursework will apply to both the undergraduate B.A. degree and the graduate M.A. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required.

### Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

Entrance requirements for the 3+2 program adhere to the requirements for the M.A. History Program in the Graduate Catalog. Students admitted into the program will remain coded as undergraduate until fulfilling their B.A. requirements. Students admitted into the 3+2 program must complete the History B.A. degree with a minimum 3.0 GPA to be allowed to proceed on with graduate program coursework. Students must fulfill all graduation requirements listed below. Students may apply to the Graduate School for admission to the 3+2 program in their junior or senior year. Approval of both the department and Graduate School is required (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>)).

### Program Requirements

CIP Code: 54.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		

A: Arts (p. 63)	3
B: Humanities (p. 63)	3
<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education (See the requirements for the regular option)		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – History 3+2 majors will fulfill ACCT with the following.		

HIS 802

#### Major Requirements

##### Core Courses

Choose from one of the following: 3

HIS 100	World Topics to 1500:___	
HIS 101	World Topics Since 1500:___	
HIS 147		

HIS 102	American Civilization to 1877	3
HIS 103	American Civilization Since 1877	3
HIS 290	Historical Research and Methods	3
HIS 800	Historiography and Criticism <sup>1</sup>	3

Choose from one of the following: 3

HIS 802A	Historical Research and Writin	
HIS 802B	Historical Research in Writing	
HIS 802C	Historical Research and Writin	
HIS 860	Readings in American History: <sup>2</sup>	3

Choose from 18 upper division hours with a minimum of six hours in each of the following distribution areas:<sup>1,3</sup> 18

##### Area I (U.S.):

HIS 300A	Topics in U.S. History:___	
HIS 302A	Research Topics in History:___ <sup>3</sup>	
HIS 303	Women in American History	
HIS 304	Slavery in the Americas	
HIS 305	African-American History	
HIS 307	Religion in American History	
HIS 309	Native Americans since 1830	
HIS 312A	Independent Study in History:___	
HIS 401	American Colonial Period	

HIS 402	Revolutionary America	
HIS 405	America's Westward Expansion	
HIS 413	Cold War U.S., 1945-1991	
HIS 416	Kentucky History	
HIS 420	Appalachia in U.S. History	
HIS 424	Civil War and Reconstruction	
HIS 435	U.S. Civil Rights Movement	
<b>Area II (Europe):</b>		
HIS 300B	Topics in European History	
HIS 302B	Research Topics in History:___ <sup>3</sup>	
HIS 310	History of Science	
HIS 312B	Independent Study in History:___	
HIS 319	Topics in 20th Century U.S. History:___	
HIS 336	Greco-Roman Civilization	
HIS 339	The Dark Ages Illuminated	
HIS 343	The Renaissance & Reformation	
HIS 351	Topics in English History:___	
HIS 359	Topics in Modern European History:___	
HIS 361	Topics in the History of Eurasia:___	
HIS 365	Russia-Revolutions & Reform	

##### Area III (Non-Western):

HIS 300C	Topics in Non-Western History:___	
HIS 302C	Research Topics in History:___ <sup>3</sup>	
HIS 308	Native Americans to 1830	
HIS 312C	Independent Study in History:___	
HIS 321	Islamic Societies to 1800	
HIS 322	History of the Modern Middle East	
HIS 324	Iran- State, Religion & Society	
HIS 331	Topics in Ancient Egypt/Near Eastern History:___	
HIS 370	World History Since 1945	
HIS 374	East Asian History to 1600	
HIS 376	Japan-Samurai to Superpower	
HIS 379	China- Empire and Revolution	
HIS 384	Modern Latin America Modern Latin America	
HIS 385	Early African History	
HIS 386	Modern African History	

##### Free Electives

Choose from 44 hours of free electives 44

**Total Hours 120**

1

HIS 800 Historiography and Criticism may count toward the upper division hours for 3+2 students.

2

HIS 860 Readings in American History: may count toward the six hrs, in Area I for 3+2 students.

3

Including two of the following three courses: HIS 302A Research Topics in History:\_\_\_, HIS 302B Research Topics in History:\_\_\_, HIS 302C Research Topics in History:\_\_\_

### History, Master of Arts (M.A.)

See History, Master of Arts (M.A.) (p. 773)

## Second Major in History

A student may complete a second major in history by completing the major requirements listed above.

## History, Minor

Students majoring in other disciplines may minor in History by completing the following courses:

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
Choose from one of the following:		3
HIS 100	World Topics to 1500:___	
HIS 101	World Topics Since 1500:___	
HIS 147		
HIS 102 & HIS 103	American Civilization to 1877 and American Civilization Since 1877	6
Choose from nine hours of upper division history with three hours in each of the upper-division areas described in the major (refer to major for specific course listings in each area)		9
<b>Total Hours</b>		<b>18</b>

## History/Teaching, Bachelor of Arts (B.A.)

### Program Objectives

Upon successful completion of this program, graduates will be able to:

1. demonstrate knowledge of U.S. History, European history, and selected aspects of non-Western history at a high level;
2. demonstrate their ability to communicate effectively in both oral and written form (all students in the program will complete term papers as part of their major requirements); and
3. execute a major research project utilizing both primary and secondary sources.

All students in the baccalaureate degree program will submit prior to graduation a formal research project which includes both primary and secondary sources. The History/Teaching B.A. is designed above all for those who wish to pursue careers in social studies at the secondary level or join the educational arm of such entities as historical museums and sites. Offered in cooperation with the ECU College of Education, the History/Teaching B.A. program includes secondary teaching certification in social studies. Refer to the College of Education section of this *Catalog* regarding the teacher certification requirements associated with this degree program.

### Program Requirements

CIP Code: 13.1328

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3

#### Element 2

Quantitative Reasoning (p. 63)	3
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#### Element 3

A: Arts (p. 63)	3
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B: Humanities (p. 63)	3
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#### Element 4

Natural Sciences (p. 64)	6
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#### Element 5

A: Historical Science (p. 64)	3
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B: Social Behavioral Science (p. 64)	3
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#### Element 6

Diversity of Perspectives Experiences (p. 65)	6
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<b>Total Hours</b>	<b>36</b>
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Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		

ASO 100H	Student Success Seminar History, Philosophy, & Religious Studies; and Government (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT – History majors will fulfill ACCT with the following. (Credit hours incorporated into Major or Supporting requirements)

HIS 450W	Senior Seminar in History	
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#### Major Requirements

<i>Core Courses</i>		
HIS 101	World Topics Since 1500:___ or HIS 147	3

HIS 102	American Civilization to 1877	3
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HIS 103	American Civilization Since 1877	3
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HIS 290	Historical Research and Methods	3
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HIS 450W	Senior Seminar in History	3
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Choose from 18 upper division hours with a minimum of six hours in each of the following distribution areas: <sup>1</sup>

Area I (U.S.):

HIS 300A	Topics in U.S. History:___	
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HIS 302A	Research Topics in History:___ <sup>1</sup>	
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HIS 303	Women in American History	
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HIS 304	Slavery in the Americas	
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HIS 305	African-American History	
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HIS 307	Religion in American History	
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HIS 309	Native Americans since 1830	
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HIS 312A	Independent Study in History:___	
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HIS 319	Topics in 20th Century U.S. History:___	
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HIS 401	American Colonial Period	
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HIS 402	Revolutionary America	
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HIS 405	America's Westward Expansion
HIS 413	Cold War U.S., 1945-1991
HIS 416	Kentucky History
HIS 420	Appalachia in U.S. History
HIS 424	Civil War and Reconstruction
HIS 435	U.S. Civil Rights Movement

Area II (Europe):

HIS 300B	Topics in European History
HIS 302B	Research Topics in History:___ <sup>1</sup>
HIS 310	History of Science
HIS 312B	Independent Study in History:___
HIS 336	Greco-Roman Civilization
HIS 339	The Dark Ages Illuminated
HIS 343	The Renaissance & Reformation
HIS 351	Topics in English History:___
HIS 359	Topics in Modern European History:___
HIS 361	Topics in the History of Eurasia:___
HIS 365	Russia-Revolutions & Reform

Area III (Non-Western):

HIS 300C	Topics in Non-Western History:___
HIS 302C	Research Topics in History:___ <sup>1</sup>
HIS 308	Native Americans to 1830
HIS 312C	Independent Study in History:___
HIS 321	Islamic Societies to 1800
HIS 322	History of the Modern Middle East
HIS 324	Iran- State, Religion & Society
HIS 331	Topics in Ancient Egypt/Near Eastern History:___
HIS 370	World History Since 1945
HIS 374	East Asian History to 1600
HIS 376	Japan-Samurai to Superpower
HIS 379	China- Empire and Revolution
HIS 384	Modern Latin America Modern Latin America
HIS 385	Early African History
HIS 386	Modern African History

Supporting Course Requirements

ANT 120	Introduction to Cultural Anthropology (Element 5B) G,2
or SOC 131	Introductory Sociology
Choose from one of the following: 3	

ECO 120	Economic Reasoning and Issues
ECO 130	Contemporary Economic Problems
ECO 230	Fundamentals of Microeconomics
ECO 231	Fundamentals of Macroeconomics
PSY 200	Introduction to Psychology 3
GEO 100	Regions and Nations of the World 3

POL 101	Introduction to American Government (Element 5A or 5B) <sup>G,2</sup>
Element 5A or 5B <sup>G,2</sup>	

Choose from one of the following:

POL 212	Introduction to Comparative Politics (Element 5A or 5B) <sup>G,2</sup>
POL 220	Introduction to World Politics (Element 5A or 5B) <sup>G,2</sup>

Professional Education Requirements

EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219/219W	Human Development and Learning	3
EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	3
ESE 549	Teaching Social Studies in the Secondary School	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	

Clinical Experiences:

CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9

Free Electives

Choose from 4 hours of free electives	4
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Exit Requirements

PRAXIS Examination  
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

<b>Total Hours</b>	<b>120</b>
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**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education.

1

Including two of the following three courses: HIS 302A Research Topics in History:\_\_\_, HIS 302B Research Topics in History:\_\_\_, HIS 302C Research Topics in History:\_\_\_

2

Students may only count one of the courses noted as fulfilling Element 5A and one course noted as fulfilling Element 5B for such purposes.

## Philosophy, Bachelor of Arts (B.A.)

### Program Requirements

CIP Code: 38.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3

B: Humanities (p. 63)	3
<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education 36		
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Philosophy majors will fulfill ACCT the following. (Credit hours may be incorporated into Major or Supporting requirements.)		
PHI 499	Senior Project	
<b>Major Requirements</b>		
<i>Core Courses</i>		
PHI 101	Logic and Critical Reasoning	3-4
or PHI 101R	Logic and Critical Reasoning (Supported)	
PHI 110	Beginning Philosophy	3
PHI 130	Beginning Ethics	3
or PHI 130S	Beginning Ethics	
PHI 240	Philosophy of Religion	3
PHI 300	Greek and Roman Philosophy	3
PHI 320	Modern Philosophy	3
Choose from one of the following: 3		
PHI 362	Technology and Values	
PHI 381	Animal Ethics	
PHI 383W	Health and Biomedical Ethics	
PHI 385	Environmental Ethics	
PHI 499	Senior Project	3
Choose from six hours of PHI courses 6		
Choose from six hours of PHI or REL courses 6		
<i>Free Electives</i>		
Choose from 47 hours of free electives 47		
<b>Total Hours</b>		<b>120-121</b>

## Philosophy, Minor Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
PHI 101	Logic and Critical Reasoning	3-4
or PHI 101R	Logic and Critical Reasoning (Supported)	
PHI 110	Beginning Philosophy	3
PHI 300	Greek and Roman Philosophy	3
or PHI 320	Modern Philosophy	
Choose from one of the following:		9
Nine additional PHI hours		
Six additional PHI hours plus three hours of REL		
<b>Total Hours</b>		<b>18-19</b>

## Department of Language & Cultural Studies, Anthropology, and Sociology

### Chair

Dr. Abbey Poffenberger  
(859) 622-2996  
McCreary 115

### Faculty

J. Alvarez-Jaimes, A. Buck, K. Carmean, M. Cortés-Castañeda, J. Endonino, B. Freed, S. R. Godoy, J.J. Gómez-Becerra, A. Green, D. Joseph, E. Liddell, J. Maples, S. McSpirit, P. Paolucci, A. Poffenberger, R. Polk, E. Underwood, and S. Zaragoza

### Mission and Goals

The Department of Language & Cultural Studies, Anthropology, and Sociology is a multi-disciplinary unit which offers a variety of programs through which students gain new insights into other cultures; explore biological, physical, and social evolution; advance their understanding of the modern social structures, its institutions, and interactions; and develop the language skills necessary for participation and leadership in the global community.

### Baccalaureate Degrees Language & Cultural Studies

The Language and Cultural Studies programs, including the Spanish Studies program, prepare the students to communicate in a major world language spoken on several continents. Our Spanish teaching degree helps meet the increasingly critical need for foreign language teachers in Kentucky. We offer certificate programs primarily for non-language majors with concentration on basic conversation skills and cultural understanding, currently available in French, German, Japanese, and Spanish.

The department helps students to fulfill General Education requirements in Elements 3, and 6 through course offerings in Chinese (CHN), French (FRE), German (GER), Japanese (JPN), Latin (LAT), Spanish (SPA), and occasionally other languages such as Arabic and upper division Chinese (as FLS courses); through foreign culture and civilization courses (FCC); and also, through the basic sequence of Humanities courses (HUM). AJI our courses, whether in language, literature, culture, or humanities,

strive to foster an atmosphere in which students can experience the joy of learning and intellectual fulfillment while developing deeper understanding and appreciation of cultural diversity.

1. Certain courses are inappropriate for students with native or near native fluency in a particular language. Native speakers of a foreign language (i.e., a language other than English) are welcome to take our courses at an appropriate skill level. However, such students cannot be given credit for introductory courses (100/200 level), in their native language either by enrolling in the course or by taking an exam for credit. Exceptions to this restriction, such as heritage speakers who need to take a lower-level course to correct language deficiencies, must be approved by the relevant foreign language faculty in consultation with the chair. Other exceptions may apply, at the discretion of the coordinator and foreign language faculty in conjunction with the chair.
2. Students who transfer credits must earn no fewer than 15 upper-division hours in the major and 9 upper-division hours in the minor at EKU, the exact minimum to be determined by the department chair in consultation with the faculty in the major area.
3. Eastern Kentucky University students are required to obtain the department chair's written prior approval of any course work they plan to transfer back to EKU for application to the major or minor.
4. A grade of "C" or higher is required in each course to be applied toward the major and minor.
5. Students in teaching programs must attain a minimum 2.75 GPA in their teaching major to be recommended for student teaching.
6. Spanish majors must attain a minimum 2.75 GPA in the major and must also pass a departmental proficiency exam which covers spoken and written language, culture, and literature. Teaching majors must pass the proficiency exam to be recommended for student teaching. Students will ordinarily take the exam no later than in the first semester of their senior year.

## Bachelor's

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- Sociology, Bachelor of Arts (B.A.) (p. 338)
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## Associate's

*No results were found.*

## Minor

- Anthropology, Minor (p. 336)
- Archaeology, Minor (p. 336)
- Sociology, Minor (p. 339)
- Spanish, Minor (p. 340)

## Certificate

- Diversity in Society, Department Certificate (p. 336)
- Economic Sociology, Department Certificate (p. 336)
- French Conversation and Culture, Certificate (p. 337)
- German Conversation and Culture, Certificate (p. 337)
- Japanese Conversation and Culture, Certificate (p. 337)
- Social Analytics and Demographics, Department Certificate (p. 337)

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- Sociology and Recreation Studies, Department Certificate (p. 338)
- Spanish Conversation and Culture, Certificate (p. 339)

## Courses

### Anthropology

#### ANT 120. Introduction to Cultural Anthropology. (3 Credits)

I, II. Explanation of culture and related concepts. Development of generalizations concerning social, economic, political, and ritual organization, based chiefly on comparative study of various traditional societies. Includes a brief survey of linguistics. Gen. Ed. VB, VC, or VII (SBS).

#### ANT 200. Archaeology and Human Cultures. (3 Credits)

A. Anthropology of human cultures through time and over space, using archaeological and ethnographic methods to understand the multifaceted study of cultural change. Gen. Ed. VA, VC, or VII (SBS).

#### ANT 201. Introduction to Biological Anthropology. (3 Credits)

I, II. General survey of the human biological species and its evolution, emphasizing the study of genetics, osteology, primate behavior and biology, fossil populations, and contemporary human biological variation. 2 Lec/2 Lab. Gen. Ed. E-4A.

#### ANT 306. Human Evolution. (3 Credits)

A. Prerequisite: ANT 201 or departmental approval. A detailed analysis of primate and human development emphasizing human development emphasizing the fossil evidence of the fossil evidence of human evolution.

#### ANT 311. Anthropology of Religion. (3 Credits)

A. Prerequisite: ANT 120 or 200. Anthropological exploration of religious belief systems across cultures and time. Analyzes the intersection of religion with subsistence strategies, economic systems, political systems, and gender structures. Topics include magic, witchcraft, sorcery, monotheism, polytheism, possession, and health.

#### ANT 321. Historical Archaeology. (3 Credits)

A. Prerequisite: ANT 120 or 200. This course provides an introduction to the material culture of North America's recent past. Lecture is combined with hands-on exercises using historic artifacts and documentary sources.

#### ANT 330. American Indians. (3 Credits)

A. Prerequisite: ENG 102 or 102R, 105(B), or HON 102. Explores the cultural richness and diversity of North America's First Peoples over time and geography. Topics include indigenous cultural landscapes and worldviews, treaties, reservation life, and the many continuing impacts of colonization, such as health.

#### ANT 341. North American Archaeology. (3 Credits)

A. Prerequisite: ANT 120 or ANT 200. A basic but comprehensive introduction to North American archaeology from the earliest peopling through European Contact.

#### ANT 344. Applied Anthropology. (3 Credits)

A. Prerequisite: ANT 120 or ANT 200. Comprehensive survey of applied anthropology theories, methods, and approaches. Based on extensive cross-cultural case materials, examines the historical, current, and potential applications of anthropological perspectives to social problems.

#### ANT 345. Language and Culture. (3 Credits)

A. Prerequisite: Sophomore standing. Sociocultural anthropological perspective on the study of language. Cross-cultural topics include the role of language in creating and maintaining cultural norms in gender, indigeneity, ethnicity, class and power, and race and racism.

**ANT 346. Anthropology of Food. (3 Credits)**

A. Prerequisite: ANT 120 or ANT 200 or sophomore standing. Examines food's role and impact on humankind through archaeological, biological, cultural, and linguistic anthropological perspectives. Includes issues related to environmental health, social autonomy, and food's intersection with gender, race, ethnicity, class, and indigeneity.

**ANT 355. Selected Topics in Archaeology:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: ANT 120 or ANT 200 or departmental approval. Topics vary. Offered occasionally. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**ANT 357. Archaeology and the Law. (3 Credits)**

A. Prerequisite: ANT 120 or ANT 200. Survey of Federal legislation for the management of cultural resources and the repatriation of human remains and other materials to descendant Native American tribes. Global heritage issues also addressed.

**ANT 360. Mesoamerica Before Cortez. (3 Credits)**

A. Prerequisite: ENG 102 or 102R, 105(B), or HON 102. Explores and compares the cultural heritage and colonial experiences of ancient and contemporary Indigenous civilizations of the western hemisphere through archaeology, ethnography, and historical sources.

**ANT 365. Selected Topics in Physical Anthropology:\_\_\_\_. (1-3 Credits)**

a. Prerequisite: ANT 201 or departmental approval. Topics vary. Offered occasionally. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**ANT 370. Primate Conservation. (3 Credits)**

A. Prerequisite: ANT 201 or departmental approval. The local human and biological impact of conservation programs affecting primate communities throughout the world. Topics include forest fragmentation, historical perspectives on conservation, agroforestry, ecotourism, ethnography, and disease.

**ANT 371. Primate Ecology & Sociality. (3 Credits)**

A. Prerequisite: ANT 201 or departmental approval. Ecological relationships within primate communities. Students collect, organize, and analyze behavioral data, and examine primate social structure, habitat use, diet, locomotion, seasonality, plant-primate interactions, and predator-prey relationships.

**ANT 375. Selected Topics in Cultural Anthropology. (1-3 Credits)**

A. Prerequisite: ANT 120 or ANT 200 or departmental approval. Topics vary. Offered occasionally. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**ANT 377. Medical Anthropology. (3 Credits)**

A. ANT 120 strongly recommended. Exploration of health, healthcare, and healing cross-culturally. Through medical anthropology theory and methods, apply critical perspectives to the health status of populations, the distribution of health in societies, and health outcomes.

**ANT 380. Forensic Anthropology. (3 Credits)**

A. Prerequisite: ANT 201, ANT 385, or departmental approval. Forensic osteology and dentistry ; (including demographic methods, pathology, and practical methods of collecting human physical evidence) ; and the role of the expert witness. 2 Lec/2 Lab.

**ANT 385. Human Osteology. (3 Credits)**

A. Prerequisite: ANT 201 or departmental approval. Analysis of individual skeletal remains, focusing on functional anatomy and bone physiology, disease and injury, and nutrition. Includes introductions to bioarchaeology, forensic anthropology, and biocultural reconstruction.

**ANT 394W. Anthropology & Wicked Problems. (3 Credits)**

A. Prerequisite: ENG 102, ENG 102R, HON 105 (B), or HON 102; and ANT 120, ANT 200, ANT 201, or ANT 330. Examines how anthropologists understand, study, interpret, and write about a complex, interdisciplinary, critically important, "wicked" problem. Instructor chooses the semester's wicked problem. Integrates professionalism and career development.

**ANT 395. History and Theory of Anthropology. (3 Credits)**

A. Prerequisites: ANT 120, ANT 200, ANT 201 and Junior standing. A capstone investigation of past and present practices and theories used to interpret data from each of anthropology's four subdisciplines. Professionalism in anthropology also integrated.

**ANT 439. Practicum in Archaeology. (3 Credits)**

A. Prerequisite and/or Corequisite: ANT 200 with a minimum grade of "B," ANT 470, or departmental approval. This course pairs senior anthropology majors with professional archaeologists for on-the-job training. Practicum options may include federal and state governments, private archaeological consultants, and anthropology museums.

**ANT 460. Bio Anthropology Field Methods. (3 Credits)**

A. Prerequisite: Minimum grade of "B" in ANT 201 or departmental approval. Learn biological anthropology field methods while conducting a research project. Collect and analyze biological anthropology data. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**ANT 470. Field Methods in Archaeology. (6 Credits)**

A. Prerequisite: ANT 200 with a minimum grade of "B," or departmental approval. A hands-on study of archaeological field methods including excavation techniques as well as some laboratory analysis of archaeological remains.

**ANT 471. Archaeological Materials Analysis. (3 Credits)**

A. Prerequisite: ANT 200 with minimum grade of "B," or departmental approval. Familiarizes students with processing, analysis, and interpretation of archaeological materials. This course has a laboratory component where students will work with archaeological materials.

**ANT 490. Independent Study in Anthropology. (1-6 Credits)**

A. Prerequisite: student must consult with the faculty supervisor have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**ANT 498. Directed Research in Anthropology. (3 Credits)**

A. Prerequisite: ANT 120, ANT 200, ANT 201, and departmental approval. A directed research experience for anthropology majors that integrates a research experience with the students' professional development and the production of a substantive deliverable product (e.g., poster or conference presentation).

## French

**FRE 101. Conversational French I. (3 Credits)**

I, II. Prerequisite: all required developmental reading and writing courses. Beginning French conversation, grammar, and language skills. Emphasis on speaking and listening comprehension, with introduction to basic written forms. Taught in context of French and francophone cultures. Laboratory work required. Gen. Ed. VIII.

**FRE 102. Conversational French II. (3 Credits)**

I, II. Recommended: FRE 101 or equivalent proficiency. (Students entering FRE 102 by referral or placement, with two years high school French or equivalent, receive three hours credit for FRE 101 if they make an  $\geq A_c$  in 102.) Continuing work on communicative skills and correct usage, with introduction to reading short passages on relevant French and francophone cultural topics. Laboratory work required. Gen. Ed. VIII.

**FRE 201. Intermediate Conversational French I. (3 Credits)**

I, II. Recommended: FRE 102 or equivalent proficiency (e.g. with two or three years of successful high school French). French conversation, grammar, and communicative language skills, with increased emphasis on developing basic writing and reading skills. Taught in a context of French and francophone cultures. Laboratory work required. Students entering FRE 201 by referral or placement receive six hours credit for FRE 101 and 102 if they make an  $\geq A_c$  or  $\geq B_c$  in 201. Gen. Ed. VIII.

**FRE 202. Intermediate Conversational French II. (3 Credits)**

I, II. Recommended: FRE 201 or equivalent proficiency (e.g. with three or four years of successful high school French.) French conversation, grammar, and communicative language skills, with continuing emphasis on writing skills and on reading authentic texts. Taught in context of French and francophone cultures. Laboratory work required. Students entering FRE 202 by referral or placement receive nine hours credit for FRE 101, 102, and 201 if they make an  $\geq A_c$  or  $\geq B_c$  in 202. Gen. Ed. VIII.

**FRE 207. Performing in French: Four Skills. (3 Credits)**

A. Prerequisite: FRE 202 or equivalent proficiency with departmental approval. Focuses on proficiency in the four skills and prepares students for upper-level course work. Taught in French.

**FRE 295. Independent Work in French. (1-3 Credits)**

A. Prerequisite: FRE 207. Prior to enrollment, student must have the independent study proposal approved by faculty supervisor and department chair. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 305. Readings in French. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Taught in French. Focuses on how to understand, talk, and write about short readings and their cultural and literary contexts in French. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 306. France Today. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Focuses on contemporary issues related to France through a variety of topics and media. Taught in French. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 310. Topics in Culture:\_\_\_\_. (1-12 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Emphasis on communicative proficiency in context of topics selected from French or francophone cultural heritage, such as cinema, news media, cuisine, or the arts. Taught in French. May be retaken to a maximum of twelve hours, provided the subject matter differs each time.

**FRE 312. French Literary Studies:\_\_\_\_. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with department chair approval. A selected topic from the major French authors and literary movements. Taught in French. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**FRE 320. French for Work and Travel. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Develops oral and written skills for application in diverse careers, international travel, and interaction with the French-speaking peoples of the world. Taught in French.

**FRE 330. Francophone Cinema. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. An analysis of the culture of the Francophone would thorough representative films. Taught in French. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 340. French Phonetics. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Intensive practice in the spoken language with emphasis on improving pronunciation and aural comprehension. The sound system of French is taught through phonetic exercises.

**FRE 350. French Conversation. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Intensive practice in conversation with emphasis on vocabulary building and improving fluency in the language.

**FRE 360. French Grammar in Context. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. A communicative approach to French grammar in meaningful context, using authentic spoken and written language, within the framework of French and francophone cultures.

**FRE 380. Text Contexts:\_\_\_\_. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Taught in French. Analysis and study of literary and non-literary texts of a chosen era (at discretion of instructor) within the relevant cultural and historical context. May be taken to a maximum of six hours, provided the subject matter differs each time.

**FRE 410. Advanced Stylistics. (3 Credits)**

A. Prerequisite: FRE 360 and FRE 305, 306, or 380, or equivalent proficiency with departmental approval. Taught in French. Advanced work on composition and conversation, with a focus on perfecting grammatical forms and developing advanced vocabulary. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 420. Issues in Translation. (3 Credits)**

A. Prerequisite: FRE 360 and FRE 305, 306, or 380 or equivalent proficiency with departmental approval. Taught in French. Examine the theory and method of translation (French of English) in a variety of genres. Includes the practical aspects of translation and the particulars of a career as a translator. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 430. Francophone Voices. (3 Credits)**

A. Prerequisite: FRE 360 and FRE 305, 306, or 380 or equivalent proficiency with departmental approval. An in-depth study of the traditions and cultural heritage of French speakers. Taught in French. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 495. Independent Work in French. (1-3 Credits)**

A. Prerequisite: departmental approval. May be counted toward major or minor only with permission of department chair. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## German

### GER 101. Conversational German. (3 Credits)

I, II. Prerequisite: all required developmental reading and writing courses. Beginning German conversation, grammar, and language skills. Emphasis on speaking and listening comprehension, with introduction to basic written forms. Taught within the context of Germanic cultures. Laboratory work required. Gen. Ed. VIII.

### GER 102. Conversational German II. (3 Credits)

I, II. Recommended: GER 101 or equivalent proficiency. Continuation of GER 101. (Students entering GER 102 by referral or placement receive three hours credit for GER 101 if they make an  $\zeta A_{\zeta}$  in 102.) Continuing work on basic communicative skills. Taught within the context of Germanic cultures. Laboratory work required. Gen. Ed. VIII.

### GER 201. Intermediate Conversational German. (3 Credits)

I, II. Recommended: GER 102 or equivalent proficiency. German conversation, grammar, and other language skills with increased emphasis on developing basic writing and reading skills. Taught in a cultural context. Laboratory work required. Students entering GER 201 by referral or placement receive six hours credit for GER 101 and 102 if they make an  $\zeta A_{\zeta}$  or  $\zeta B_{\zeta}$  in 201. Gen. Ed. VIII.

### GER 202. Intermediate Conversational German II. (3 Credits)

I, II. Recommended: GER 201 or equivalent proficiency. German conversation, grammar, and other language skills with continuing emphasis on reading and writing skills. Taught in a cultural context. Laboratory work required. Students entering GER 202 by referral or placement receive nine hours credit for GER 101, 102, and 201 if they make an  $\zeta A_{\zeta}$  or  $\zeta B_{\zeta}$  in 202. Gen. Ed. VIII.

### GER 240. Beginning Conversation. (3 Credits)

A. Recommended: GER 201 or equivalent proficiency with department chair approval. Topics for conversation drawn from everyday situations. (Waived in case of demonstrable oral proficiency, but not open to students who have native or near-native fluency in German.)

### GER 295. Independent Work in German. (1-3 Credits)

Prerequisite: GER 202 or equivalent proficiency. May be retaken to a maximum of 9 hours if content is different. Prior to enrollment, student must have the independent study proposal approved by faculty supervisor and department chair.

### GER 310. Topics in German:\_\_\_\_. (1-3 Credits)

A. Prerequisite: GER 202 or equivalent proficiency with department chair approval. May be retaken to a maximum of 6 hours if topic is different. Selected topics in German language, literature, or culture.

### GER 340. Intermediate Conversation. (3 Credits)

A. Prerequisite: GER 240 or equivalent proficiency with department chair approval. Topics for conversation drawn from contemporary German life.

### GER 495. Independent Work in German. (1-3 Credits)

A. Prerequisite: departmental approval. May be counted toward major or minor only with permission of department chair. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## Japanese

### JPN 101. Conversational Japanese I. (3 Credits)

I, II. An introduction to the grammar and structure of Japanese taught in cultural context. Practice in pronunciation, reading, and writing systems with an emphasis on conversation. Gen. Ed. VIII.

### JPN 102. Conversational Japanese II. (3 Credits)

A. Recommended: JPN 101 or equivalent proficiency. Continuation of JPN 101. Emphasis on conversation. Students entering JPN 102 by referral or placement will receive three hours credit for JPN 101 if they make an  $\zeta A_{\zeta}$  in 102. Laboratory work required. Gen. Ed. VIII.

### JPN 201. Intermediate Japanese I. (3 Credits)

A. Recommended: JPN 102 or equivalent proficiency. Continuation of JPN 102. Practice in writing kanji, reading, and speaking on cultural topics for diverse social settings requiring increasingly complex structural patterns. Students entering JPN 201 by referral or placement receive six hours credit for JPN 101 and 102 if they make an  $\zeta A_{\zeta}$  or  $\zeta B_{\zeta}$  in 201. Gen. Ed. VIII.

### JPN 202. Intermediate Japanese II. (3 Credits)

A. Recommended: JPN 201 or equivalent proficiency. Continuation of JPN 201 to strengthen student's ability to interact in more diverse social settings requiring increasingly complex structural patterns. Students entering JPN 202 by referral or placement receive nine hours credit for JPN 101, 102, and 201 if they make an  $\zeta A_{\zeta}$  or  $\zeta B_{\zeta}$  in 202. Gen. Ed. VIII.

### JPN 295. Independent Work in Japanese. (1-3 Credits)

A. Prerequisite: departmental approval. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

### JPN 495. Independent Work in Japanese. (1-3 Credits)

A. Prerequisite: departmental approval. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## Sociology

### SOC 131. Introductory Sociology. (3 Credits)

I, II. Basic principles in sociology, including socialization, groups and interaction, culture, social structure and institutions (family, education, religion, politics, economics), crime/deviance, social inequalities (race, class, gender), and sociological research methods and theories. Gen. Ed. E-5B [SB].

### SOC 135. Living in a Diverse World. (3 Credits)

A. An introduction to the sociological study of the multiple ways racial and ethnic diversity intersect across classes, genders, cultures, abilities, religions, labor markets, political structures, and the mass media.

### SOC 205. Sexualities and Social Issues. (3 Credits)

(3). Cross-listed as WGS 205. An examination of the diversity of sexuality and related social issues in the United States and globally. Topics include culture, history, law, mass media, politics, and religion. Credit will not be awarded to students who have credit for WGS 205 or WGS 302. Gen. Ed. E-6 [GE].

### SOC 232. Social Statistics. (3 Credits)

I, II. Prerequisites: SOC 131 or 235 and ACT Math score of 19 or higher or SAT Math score of 500 or higher, or equivalent MAT placement test score, or MAT 105 or higher with a grade of C or better. Statistical analysis of survey data, including forming sociological research questions, variable selection, analysis, interpretation, and writing in standard scientific form.

### SOC 235. Social Problems. (3 Credits)

I, II. Analysis of selected social problems such as crime, mental illness, divorce, population, and poverty, as well as controversies over human sexuality. The analysis includes the definition, causes, and consequences of social problems. Gen. Ed. VB, VC, or VII (SBS).

**SOC 245. Sociology of the Family. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 102R or ENG 105(B) or HON 102. Completion of SOC 131 or SOC 235 is advised before taking SOC 245. Examines family as a social institution, including its relation to cultural and social change and to the wider structure of society. Credit will not be awarded for both SOC 245 and SOC 345 or SOC 245W.

**SOC 245W. Sociology of the Family. (3 Credits)**

Prerequisite: ENG 102 or ENG 102R or ENG 105(B) or HON 102. Completion of SOC 131 or SOC 235 is advised before taking SOC 245W. Examines family as a social institution, including its relation to cultural and social change and to the wider structure of society. Credit will not be awarded for both SOC 245W and SOC 345.

**SOC 300. Animals and Society. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), HON 102. Completion of SOC 131 or SOC 235 is advised. A survey of sociology of animal-human interaction, focusing on the human-animal bond and conflict between human and animal worlds.

**SOC 310. Population and Society. (3 Credits)**

A. Formerly SOC 465. Prerequisites: SOC 131 or SOC 235;. Topics include demographic data and analysis, population characteristics, migration, mortality, fertility, population theories, world population growth, and population policies. Credit not awarded for both SOC 310 and SOC 465.

**SOC 320. Mind, Self, and Society. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), HON 102. Completion of SOC 131 or SOC 235 is advised before taking SOC 320. Relation of the individual to the sociocultural environment, with special reference to personality development, interpersonal role-behavior, motivation, and social attitudes.

**SOC 322. Sociology of Mass Media. (3 Credits)**

A. Prerequisites: ENG 102 or 102R, 105(B), or HON 102; SOC 131, or SOC 235, or BEM 200. Mass media as social structure and audience in interpretation of mass media is examined through sociological analysis of media ownership, media content, and audience characteristics.

**SOC 330. Sociology of Migration. (3 Credits)**

Prerequisites: ENG 102 or 102R, 105(B), or HON 102; three hours in SOC or departmental approval. A sociological exploration of global migration including the study of migrants, refugees, politics, laws, and the role of the global economy. Credit will not be awarded for both SOC 330S and SOC 330.

**SOC 330S. Sociology of Migration. (3 Credits)**

A. Prerequisites: ENG 102, 105(B), or HON 102; 3 hours in SOC or departmental approval. A sociological exploration of global migration including study of migrants, refugees, politics, laws, and the role of the global economy, informed through service-learning.

**SOC 349. Applied Learning in Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and departmental approval. Work in a professional environment related to academic studies. A minimum of 80 hours of employment is required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349A. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349B. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349C. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349D. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349E. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349F. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349G. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349H. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349I. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349J. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349K. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349L. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349M. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349N. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 350. Selected Topics in Sociology. (3 Credits)**

A. Prerequisite: ENG 102, 105 (B), or HON 102. Completion of SOC 131 is advised before taking SOC 350. May be retaken to a maximum of nine hours provided the subject matter differs each time. Sample topics: Appalachian sociology; sexism and society; utopias.

**SOC 363. Appalachian Images in Film and Song. (3 Credits)**

A. Completion of SOC 131 or SOC 235 is advised before taking SOC 363. Media images of the Appalachian region and its people through film and music; the processes by which such images become produced and reproduced. Credit will not be awarded to students who have credit for APP 363.

**SOC 365. Social Change in Appalachia. (3 Credits)**

A. Cross listed as APP 366. Completion of SOC 131 or SOC 235 is advised before taking SOC 365. Analysis of patterns of social change and development in an important area of the Southern United States, Central and Southern Appalachia. Emphasis will be placed upon competing theoretical perspectives and the importance of historical research. Credit will not be awarded to students who have credit for APP 366.

**SOC 370. Religion in Appalachia. (3 Credits)**

A. Completion of SOC 131 or SOC 235 is advised before taking SOC 370. An examination of diversity and change in the religious beliefs, practices, groups, and organizations found in the Southern Appalachian Region. Credit will not be awarded to students who have credit for APP 370.

**SOC 375. Sociology of Deviance. (3 Credits)**

Prerequisites: SOC 131 and ENG 102 or 102R, 105(B), or HON 102. An overview of social, cultural, interpersonal, and individual factors in the social construction of norms and laws and their violation. Explores types of deviance such as predatory violence, organizational deviance, suicide, and drug use.

**SOC 380. Jobs and Professionalization. (3 Credits)**

A. (3) Prerequisites: At least 9 hours in SOC. A professionalization course for sociology majors focused on transitioning to the workforce or further education. Students will learn goal setting and execution, research skills and develop critical thinking, problem solving, teamwork, and communication skills.

**SOC 383. Environment and Society. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), or HON 102. Completion of SOC 131 or SOC 235 is advised. The study and application of concepts from ecology, political economy and sociology to better understand the relationship between humans and their physical environment.

**SOC 395. Research Methods in Sociology. (3 Credits)**

II. Prerequisite: SOC 232. Methods and techniques of sociological research, including collecting, measuring, analyzing, processing, and presenting social data.

**SOC 399. Gender and Society. (3 Credits)**

A. Cross-listed as WGS 399. Prerequisites: SOC 131 or SOC 235; ENG 102 or ENG 105 (B) or HON 102. Emphasis on the relationship between the social construction of gender and the experiences of people of all genders in societies. Consideration of the cultural and historical construction of gender and identity. Gen. Ed. E-6 [GE]. Credit will not be awarded for both SOC 399 and WGS 399.

**SOC 400. Race and Ethnicity. (3 Credits)**

A. Cross-listed as AFA 400. Prerequisites: SOC 131 or SOC235; ENG 102 or ENG 102R or ENG 105 (B) or HON 102. Analysis of the development of racial and ethnic relations from the perspective of sociology and related social sciences. Examination of issues related to dominant and minority group status in the United States and cross-culturally. Gen. Ed. E-6. Credit will not be awarded for both SOC 400 and AFA 400.

**SOC 420. Jobs, Organizations, and Power. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), HON 102 or departmental approval. Completion of SOC 131 or SOC 235 is advised. Analysis of work in American society with a focus on labor markets, labor processes and organizational structure. Special attention to the future of jobs and bureaucracies in the United States.

**SOC 425. Social Inequality. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), HON 102 or departmental approval. Completion of SOC 131 or SOC 235 is advised. Examines causes and consequences of social stratification, focusing on the origins, present, and future of the world economy, including policy institutions, major historical events, and racial/ethnic relations in the global system.

**SOC 450. Social Change. (3 Credits)**

A. Prerequisite: six hours of SOC. Analysis of theories of social and cultural change in terms of process and direction and methodological issues.

**SOC 455. Collective Behavior. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), or HON 102; six hours in SOC. Analysis of mass phenomena such as public opinion, rumors, fads, mobs, riots, panics, and social movements; including a consideration of the development and termination of collective behavior forms.

**SOC 462. Sociological Theory. (3 Credits)**

I. Prerequisite: ENG 102, 105(B), or HON 102; six hours in SOC. Examines developments in social thought including origins of classical theory (Marx, Durkheim, Weber), a survey of contemporary theories built upon these early approaches, as well as issues unaddressed in the classical school, such as functionalism, feminism, dramaturgical analysis, and post-structuralism.

**SOC 470. Capstone Seminar in Sociology. (3 Credits)**

A. Prerequisites: ENG 102, 105 (B), or HON 102; SOC 395. A capstone overview of sociology through a general survey of various subdisciplines of the field with an emphasis on student understanding of research, theory, and professionalization.

**SOC 490. Independent Study in Sociology. (1-6 Credits)**

(1-6) A. Prerequisite: SOC 131 and six additional hours of SOC. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. Additional independent study courses may be retaken to a maximum of six hours.

**SOC 499. Directed Research in Sociology. (3 Credits)**

A. Prerequisite: Departmental approval. A directed research experience for Sociology majors that integrates a research experience with the students' professional development and the production of a substantive deliverable product (e.g., poster or conference presentation).

## Spanish

**SPA 101. Conversational Spanish I. (3 Credits)**

I, II. Prerequisite: completion of all required developmental reading and writing courses. Beginning Spanish for students with little or no previous study of Spanish. Qualified students should enroll at a higher level. Proficiency-based course emphasizing active communication in Spanish, and introducing the cultural diversity of the Spanish-speaking world. Conducted in Spanish. Not open to students who have native or near-native fluency in Spanish. Gen. Ed. E-6.

**SPA 101P. Spanish Praticum I. (1 Credit)**

I, II. Students who enroll in this course must be concurrently enrolled in SPA 101. This course provides students with an additional opportunity to study and apply the vocabulary, grammar, and usage presented in SPA 101.

**SPA 102. Conversational Spanish II. (3 Credits)**

I, II. Prerequisite: SPA 101, or equivalent proficiency. (Students with three or four successful years of high school Spanish should begin their study in SPA 102, 105, or higher. Students entering SPA 102 by referral or placement will receive three hours credit for SPA 101 if they make an A in 102.) Continuation of SPA 101. Conducted in Spanish. Not open to students who have native or near-native fluency in Spanish.

**SPA 102P. Spanish Practicum II. (1 Credit)**

I, II. Students who enroll in this course must be concurrently enrolled in SPA 102. This course provides students with an additional opportunity to study and apply the vocabulary, grammar, and usage presented in SPA 102.

**SPA 105. Accelerated Spanish I. (6 Credits)**

(6) A. Recommended: minimum of two years high school Spanish and/or instructor approval. An intensive approach to the skills of reading, writing, speaking, listening, and understanding culture. SPA 105 covers the same material as SPA 101 and 102, but is completed in a single semester. Conducted in Spanish. Not open to students who have native or near-native fluency in Spanish. Gen. Ed. E-6.

**SPA 201. Intermediate Conversational. (3 Credits)**

I, II. Recommended: SPA 102 or equivalent proficiency. Development of more advanced skills for speaking, listening, reading, and writing in contemporary cultural contexts. Laboratory work required. Students entering SPA 201 by referral or placement receive six hours credit for SPA 101 and 102 if they make an  $\geq A_{\zeta}$  or  $\geq B_{\zeta}$  in 201. Gen. Ed. VIII.

**SPA 202. Intermediate Conversational Spanish II. (3 Credits)**

I, II. Recommended: SPA 201 or equivalent proficiency. Development of more advanced skills for speaking, listening, reading, and writing, with increased emphasis on short readings, discussions, and compositions on cultural topics. Laboratory work required. Students entering SPA 202 by referral or placement receive nine hours credit for SPA 101, 102, and 201 if they make an  $\geq A_{\zeta}$  or  $\geq B_{\zeta}$  in 202. Gen. Ed. VIII.

**SPA 205. Accelerated Spanish II. (6 Credits)**

Prerequisite: SPA 105, or SPA 102 or equivalent with minimum grade of B, or two years AP high school Spanish, and/or instructor approval. An intensive approach to the skills of reading, writing, speaking, listening, and understanding culture. SPA 205 covers the same material as SPA 201 and 202, but is completed in a single semester. Gen. Ed. E-6.

**SPA 295. Independent Work in Spanish. (1-3 Credits)**

A. Prerequisite: SPA 202 or equivalent proficiency. May be retaken to a maximum of 9 hours if content is different. Prior to enrollment, student must have the independent study proposal approved by faculty supervisor and department chair.

**SPA 300. Advanced Conversation. (3 Credits)**

A. Formerly SPA 206. Prerequisite: SPA 202 or 205 or instructor approval. Active development of skills and strategies for functional fluency in Spanish in real cultural contexts. Credit will not be awarded for both SPA 206 and SPA 300.

**SPA 301. Reading and Culture. (3 Credits)**

A. Prerequisites: SPA 202 and SPA 300 or equivalent proficiency with department chair approval. Interactive discussion and writing on readings representative of Hispanic culture. Taught in Spanish.

**SPA 310. Topics in Spanish:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: SPA 300 and SPA 301. May be retaken to a maximum of 9 hours if topic is different. Selected topics in Spanish language, literature, or culture.

**SPA 320. Spanish for the Professions. (3 Credits)**

A. Prerequisites: SPA 300 and 360, or equivalent proficiency with department chair approval. Provides opportunities to learn and use Spanish for professions. Includes vocabulary for the social sciences, industrial technology, law enforcement, and health care as deemed relevant. Taught primarily in Spanish.

**SPA 321S. Spanish for the Social Services. (3 Credits)**

A. Prerequisite: SPA 300 and SPA 301 or Departmental Approval. Designed to develop the knowledge and skills required for communication by collaborating with professionals in an approved service learning site. Materials and activities are geared toward professional interactions and will emphasize cultural knowledge.

**SPA 349. Applied Learning in Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349A. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349B. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349C. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349D. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349E. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 360. Grammar in Contexts. (3 Credits)**

I, II. Prerequisites: SPA 300. Emphasis on improving the understanding and application of Spanish through study of components of Spanish grammar in a variety of written cultural contexts.

**SPA 380. Civilizations of Spain. (3 Credits)**

I. Prerequisites: SPA 301 and 360, or equivalent proficiency with department chair approval. An exploration of Spain's intellectual, cultural, and historical development. Class conducted primarily in Spanish with Spanish texts in order to further development of reading, speaking, comprehension, and writing skills in Spanish.

**SPA 381. Civilizations of Latin America. (3 Credits)**

II. Prerequisites: SPA 301 and 360, or equivalent proficiency with department chair approval. An exploration of Latin America's intellectual, cultural, and historical development. Class conducted primarily in Spanish with Spanish texts in order to further development of reading, speaking, comprehension, and writing skills in Spanish.

**SPA 390. Adv Composition & Conversation. (3 Credits)**

A. Formerly SPA 370. Prerequisites: SPA 300 or 301 or equivalent proficiency with departmental approval. Intensive practice in developing skills for effective oral and written communication in Spanish. Taught in Spanish.

**SPA 401. Spanish Language Studies:\_\_\_\_. (3 Credits)**

A. Prerequisite: SPA 360. A selected topic such as phonetics, phonology, semantics, syntax, or history of the language. May be retaken to a maximum of nine hours if content is different.

**SPA 405. Hispanic Literature Culture. (3 Credits)**

A. Prerequisite: SPA 301 or equivalent proficiency with department chair approval. Readings and interactive analyses of representative authors, works, and movements of both Spain and Spanish-America in their historical and cultural contexts from the Middle Ages to 1700. Taught in Spanish.

**SPA 406. Hispanic Literature Culture. (3 Credits)**

A. Prerequisite: SPA 301 or equivalent proficiency with department chair approval. Readings and interactive analyses of representative authors, works, and movements of both Spain and Spanish-America in their historical and cultural contexts in the 18th and 19th centuries. Taught in Spanish.

**SPA 407. Hispanic Literature and Culture. (3 Credits)**

A. Prerequisite: SPA 301 or equivalent proficiency with department chair approval. Readings and interactive analyses of representative authors, works, and movements of both Spain and Spanish-America, in their historical and cultural contexts, in the 20th century. Taught in Spanish.

**SPA 410. Introduction to Interpreting. (3 Credits)**

Prerequisite: SPA 360. This is a practical course designed to develop proficiency in community interpreting. Topics include consecutive interpreting skills, sign translation skills, vocabulary and terminology research, intercultural issues, and situational ethics.

**SPA 492. Senior Capstone Seminar. (3 Credits)**

(3). A. Prerequisites: At least 15 hours of 300-400 level Spanish and/or chair approval. Advanced majors will demonstrate their skills in the language, cultures, and literatures of the Spanish speaking world, via a research project, demonstrating proficiency in oral and written Spanish, and a final presentation to peers and faculty. Taught in Spanish. Required of all Spanish majors.

**SPA 495. Independent Work in Spanish. (1-3 Credits)**

A. Prerequisite: departmental approval. May be counted toward major or minor only with permission of department chair. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**SPA 572. Hispanic Literature:\_\_\_\_\_. (3 Credits)**

A. Prerequisites: SPA 301 and three hours from SPA 405, 406, or 407. Study of a selected literary topic. May be retaken to a maximum of nine hours if content is different.

## Anthropology, Bachelor of Arts (B.A.)

Anthropology is the study of human diversity. It explores the meaning of being human - from the study of culture and social relations, to human biology and physical evolution, to language, to music and art and to vestiges of human habitation. Anthropology addresses fascinating questions such as how peoples' behavior changes over time, how and why people from distant parts of the world and dissimilar cultures are in many ways similar, how the human species has evolved over millions of years, and how individuals understand and operate successfully in distinct cultural settings. Anthropology includes four sub-fields: cultural anthropology, physical anthropology, archaeology, and linguistics.

The Anthropology Program at EKU offers exposure to all of these sub-fields, with the opportunity to specialize, if so desired. Two great reasons to study anthropology include:

1. study topics are intellectually exciting; and
2. Anthropology prepares students for excellent jobs and opens doors to various career paths.

Anthropological study provides training particularly well-suited to the 21<sup>st</sup> century. Anthropology approaches human questions from historical, biological, and cultural perspectives. As a result, career opportunities exist in academic, corporate, nonprofit and government settings.

Many anthropologists with bachelor's degrees work for contract archaeology firms at archaeological sites, in physical anthropology laboratories, and in museums in a wide range of areas. International health organizations and development banks employ anthropologists to help design and implement a wide variety of programs. Governmental organizations use anthropologists in planning, research, and managerial capacities. Forensic anthropologists find work in university and museum settings along with police departments to help identify mysterious or unknown remains.

Anthropology is a career that embraces people of all kinds. It is a discipline that thrives with heterogeneity -in people, ideas, and research methods. Anthropologists know the wisdom of listening to multiple voices and linking the work from researchers who bring different backgrounds and apply various approaches to their endeavors.

## Program Requirements

CIP Code: 45.0201

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3

B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
Student Success Seminar (waived for transfers with 30+ hrs.)		1
Writing Intensive Course (hours incorporated into Major Supporting/ Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)		

ACCT - Anthropology majors will choose from one of the following. (Credit hours will be incorporated into Major or Supporting requirements below.)

ANT 395	History and Theory of Anthropology (Senior Capstone)
ANT 439	Practicum in Archaeology
ANT 470	Field Methods in Archaeology
SOC 330S	Sociology of Migration
HON 420	Thesis Project and Seminar
Or a program-approved study abroad experience	

### Major Requirements

<i>Core Courses</i>		
ANT 120	Introduction to Cultural Anthropology	3
ANT 200	Archaeology and Human Cultures	3
ANT 201	Introduction to Biological Anthropology	3
ANT 330	American Indians	3
ANT 394W	Anthropology & Wicked Problems	3
ANT 395	History and Theory of Anthropology	3
Choose from 15 hours with at least one course from each of the following categories:		15

#### Archaeology:

ANT 321	Historical Archaeology
ANT 341	North American Archaeology
ANT 355	Selected Topics in Archaeology:___
ANT 357	Archaeology and the Law
ANT 360	Mesoamerica Before Cortez
ANT 439	Practicum in Archaeology
ANT 470	Field Methods in Archaeology
ANT 471	Archaeological Materials Analysis

#### Cultural Anthropology:

ANT 311	Anthropology of Religion
ANT 344	Applied Anthropology
ANT 345	Language and Culture
ANT 346	Anthropology of Food
ANT 375	Selected Topics in Cultural Anthropology
ANT 377	Medical Anthropology

Biological Anthropology: <sup>1</sup>

ANT 306	Human Evolution
ANT 365	Selected Topics in Physical Anthropology:___
ANT 370	Primate Conservation
ANT 371	Primate Ecology & Sociality
ANT 380	Forensic Anthropology
ANT 385	Human Osteology
ANT 460	Bio Anthropology Field Methods

*Free Electives*

Choose from 50 hours of free electives 50

**Total Hours** 120

1

ANT 490 Independent Study in Anthropology or ANT 498 Directed Research in Anthropology may also be selected; it will be classified where appropriate.

## Anthropology, Minor

### Program Requirements

A student may minor in Anthropology by taking a minimum of 18 hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
ANT 120	Introduction to Cultural Anthropology	3
ANT 200	Archaeology and Human Cultures	3
ANT 201	Introduction to Biological Anthropology	3
Choose from one upper division Archaeology course		3
Choose from one upper division Cultural Anthropology course		3
Choose from one upper division Biological Anthropology course		3
<b>Total Hours</b>		<b>18</b>

ANT 351W, ANT 394W Anthropology & Wicked Problems nor ANT 395 History and Theory of Anthropology will count toward the minor.

## Archaeology, Minor

### Program Requirements

A student may minor in Archaeology by taking a minimum of 18 hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
ANT 200	Archaeology and Human Cultures	3
ANT 330	American Indians	3
<b>Electives</b>		
Choose from 12 hours of upper division Archaeology electives of the following:		12
ANT 321	Historical Archaeology	
ANT 341	North American Archaeology	
ANT 355	Selected Topics in Archaeology:___	
ANT 357	Archaeology and the Law	
ANT 360	Mesoamerica Before Cortez	
ANT 439	Practicum in Archaeology	

ANT 470	Field Methods in Archaeology
ANT 471	Archaeological Materials Analysis
ANT 490	Independent Study in Anthropology (if archaeological topic)

**Total Hours** 18

## Diversity in Society, Department Certificate

The certificate in Diversity in Society is ideal for all undergraduate students who want to work with diverse populations. The certificate provides transferable knowledge into many career areas, including the helping professions as well as careers in the arts, business, criminal justice, and STEM fields. Students are encouraged to select a group of courses tailored to their personal, academic, and professional goals. The certificate in Diversity in Society requires a minimum of 12 hours, and students must earn a "B" or higher in all courses counting toward the certificate.

### Program Requirements

CIP Code: 44.0701

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
SOC 399	Gender and Society	3
SOC 400	Race and Ethnicity	3
<i>Supporting Course Requirements</i>		
Choose from two of the following:		6
ANT 330	American Indians	
SOC 135	Living in a Diverse World	
SOC/WGS 205	Sexualities and Social Issues	
SOC 330S	Sociology of Migration	
SOC 370	Religion in Appalachia	
or APP 365	Appalachian Literature	
SOC 365/ APP 366	Social Change in Appalachia	
SOC 425	Social Inequality	
WGS 306	Masculinity & Popular Culture	
WGS 308	Trans Studies	
WGS 365	Women, Gender, and Religion	
WGS 364	Women's Literature	
WGS 366	Queer Theory and Literatures	
WGS 400	Feminist Theory and Practice	
WGS 592	Human Sexuality	
Other diversity-related course in SOC, ANT, APP, or WGS with departmental approval		
<b>Total Hours</b>		<b>12</b>

## Economic Sociology, Department Certificate

The certificate in Economic Sociology is ideal for all undergraduate students who want to better understand the relationship between wider economy (global, national, local) and a variety of social conditions

that effect human wellbeing, such as labor markets, political systems, forms of social stratification, the family, migration, the mass media, and the environment. The certificate provides transferable knowledge for many career areas, including large and small businesses, STEM fields, management, and governmental policy as well as careers in the arts, education, and the sciences. Students are encouraged to select a group of courses tailored to their personal, academic, and professional goals. The certificate in Economic Sociology requires a minimum of 12 hours, and students must earn a “C” or higher in all courses counting toward the certificate.

## Program Requirements

CIP Code: 45.1101

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
SOC 420	Jobs, Organizations, and Power	3
SOC 425	Social Inequality	3
<i>Supporting Course Requirements</i>		
Choose from two of the following:		6
SOC 245W	Sociology of the Family	
SOC 330S	Sociology of Migration	
SOC 322	Sociology of Mass Media	
SOC 383	Environment and Society	
<b>Total Hours</b>		<b>12</b>

## French Conversation and Culture, Certificate

### Program Requirements

Code	Title	Hours
<b>Prerequisites</b>		
FRE 101 & FRE 102	Conversational French I and Conversational French II (or equivalent)	0-6
<b>Certificate Requirements</b>		
Choose from one of the following:		3
FCC 220	French Culture and Civilization	
FCC 210	Topics in Culture:___ (with a topic related to the French-speaking world)	
FRE 201	Intermediate Conversational French I	3
FRE 202	Intermediate Conversational French II	3
FRE 207	Performing in French: Four Skills	3
Choose from three hours of FRE courses numbered 300 or above		3
<b>Total Hours</b>		<b>15-21</b>

A grade of “C” or higher is required in each course for credit toward the certificate.

## German Conversation and Culture, Certificate

### Program Requirements

Code	Title	Hours
<b>Prerequisites</b>		
GER 101 & GER 102	Conversational German and Conversational German II (or equivalent)	0-6
<b>Certificate Requirements</b>		
FCC 210 or FCC 222	Topics in Culture:___ German Culture and Civilization	3
GER 201 & GER 202	Intermediate Conversational German and Intermediate Conversational German II	6
<b>Total Hours</b>		<b>9-15</b>

A grade of “C” or higher is required in each course for credit toward the certificate.

## Japanese Conversation and Culture, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
FCC 227	Japanese Culture and Civilization	3
JPN 101	Conversational Japanese I	3
JPN 102	Conversational Japanese II	3
JPN 201	Intermediate Japanese I	3
JPN 202	Intermediate Japanese II	3
<b>Total Hours</b>		<b>15</b>

A grade of “C” or higher is required in each course for credit toward the certificate.

## Social Analytics and Demographics, Department Certificate

The Social Analytics and Demographics Certificate enables students to utilize quantitative sociological research skills in solving social issues in this region. Students must earn at least a “B” grade in all classes counting toward the certificate.

### Program Requirements

CIP Code: 44.0701

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from four of the following:		12
SOC 232	Social Statistics	
SOC 245W	Sociology of the Family	
SOC 310	Population and Society	
SOC 330S	Sociology of Migration	
SOC 349	Applied Learning in Sociology	
SOC 365	Social Change in Appalachia	

SOC 395	Research Methods in Sociology	
SOC 425	Social Inequality	
SOC 499	Directed Research in Sociology	
<b>Total Hours</b>		<b>12</b>

## Society and Environmental Stewardship, Certificate

The Society and Environmental Stewardship Department Certificate (12 hours) enables students to explore how society and the environment are interlinked. Students must earn at least a “B” in all classes counted toward the certificate.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from four of the following:		12
SOC 300	Animals and Society	
SOC 310	Population and Society	
SOC 365	Social Change in Appalachia	
SOC 383	Environment and Society	
SOC 490	Independent Study in Sociology	
SOC 499	Directed Research in Sociology	
ANT 370	Primate Conservation	
APP 430	Sustainability in Appalachia	
Other environmentally related course in ANT, ANS, APP, COM, ENG, HIS, SOC, SWK, POL, or PSY upon departmental approval		
<b>Total Hours</b>		<b>12</b>

## Sociology and Recreation Studies, Department Certificate

The Certificate in Sociology and Recreation Studies offers important job skills and training from both Sociology and Recreation and Park Administration. The certificate is ideal for all undergraduate students who want to work with diverse populations in recreation fields. Students are encouraged to select a group of courses tailored to their personal, academic, and professional goals.

The certificate requires a minimum of 12 hours, and students must earn a “B” or higher in all courses counting toward the certificate.

### Program Requirements

CIP Code: 45.1101

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
Choose from six hours of the following:		6
SOC 205	Sexualities and Social Issues	
SOC 399	Gender and Society	
SOC 400	Race and Ethnicity	
<i>Recreation and Park Administration Requirements</i>		
Choose from six hours of the following:		6
SOC 135	Living in a Diverse World	

REC 200	Leisure Diversity and Culture	
REC 311	Introduction to Therapeutic Recreation	
REC 411	Therap Rec Serv For Sr Adult	
REC 503		
<b>Total Hours</b>		<b>12</b>

## Sociology, Bachelor of Arts (B.A.)

The field of Sociology emerged as a scientific enterprise focused on a comprehensive understanding of the modern world, its origins, basic components, and central tendencies. As a member of this tradition, the Sociology Program at ECU provides students with an advanced understanding of the modern social structure and its institutions (politics, economics, religion, mass media, the family, labor markets), human group dynamics, social inequalities of class, gender, race, and sexuality, forms of human interaction, and social deviance (crime, juvenile delinquency). Sociologists also study regional issues such as social change in Appalachia and environmental concerns. Sociology faculty are skilled in teaching the theoretical foundations of sociology and methods of social research, while they teach students to think critically.

The broad knowledge base of sociology, combined with basic skills in research methods and analysis, widens students' job opportunities in a rapidly changing economy where specialized jobs often become outdated. Students who major in sociology are taught to think critically, communicate effectively, and respond constructively to the challenges and opportunities they will encounter. A major in sociology provides a gateway to many different professions.

Many sociology graduates move into careers in the following areas: social services, social media, data mining and analysis, human relations, law and legal services, policy analysis, teaching, and health fields. Others find employment in management and administrative careers in government agencies as well as in a wide range of private sector firms. Still others work to achieve their goals in less traditional careers such as grassroots activism or private entrepreneurship.

### Program Requirements

CIP Code: 45.1101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
Student Success Seminar (waived for transfers with 30+ hrs.)		1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Sociology majors will fulfill the ACCT with the following. (Credit hours may be incorporated into major requirements below.)		
SOC 470	Capstone Seminar in Sociology	

### Major Requirements

#### Core Courses

SOC 131	Introductory Sociology	3
SOC 232	Social Statistics	3
SOC 395	Research Methods in Sociology	3
SOC 462	Sociological Theory	3
SOC 470	Capstone Seminar in Sociology	3
Choose from one of the following:		3

SOC 205 Sexualities and Social Issues

SOC 235 Social Problems

SOC 245W Sociology of the Family

Choose from 12 hours of upper-division Sociology electives 12

#### Free Electives

Choose from 53 hours of free electives 53

**Total Hours 120**

## Sociology, Minor

### Program Requirements

A student may minor in Sociology by completing the following courses:

Code	Title	Hours
<b>Required Courses</b>		
SOC 131	Introductory Sociology	3
<b>Electives</b>		
Choose from 15 hours of Sociology electives, 12 of which must be upper division <sup>1</sup>		15
<b>Total Hours</b>		<b>18</b>

1

Three hours of upper division Anthropology may be applied to the 15 hours.

## Spanish Conversation and Culture, Certificate

### Program Requirements

Code	Title	Hours
<b>Prerequisites</b>		
Choose from one of the following:		0-6
SPA 101 & SPA 102	Conversational Spanish I and Conversational Spanish II	
SPA 105	Accelerated Spanish I (or equivalent)	
<b>Certificate Requirements</b>		
SPA 201	Intermediate Conversational	3
SPA 202	Intermediate Conversational Spanish II	3
SPA 300	Advanced Conversation	3
Choose from six hours of upper-division Spanish courses		6
<b>Total Hours</b>		<b>15-21</b>

A grade of "C" or higher is required in each course for credit toward the certificate.

## Spanish, Bachelor of Arts (B.A.)

### Program Requirements

CIP Code: 16.0905

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		

ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Spanish majors will fulfill ACCT with the following or a program approved study abroad experience. (Credit hours are incorporated into program requirements below.)		
SPA 321S	Spanish for the Social Services	
<b>Major Requirements</b>		
<i>Core Courses</i> <sup>1</sup>		
SPA 300	Advanced Conversation	3
SPA 301 & SPA 360	Reading and Culture and Grammar in Contexts	6
SPA 380 or SPA 381	Civilizations of Spain Civilizations of Latin America	3
SPA 405 or SPA 406 or SPA 407	Hispanic Literature Culture Hispanic Literature Culture Hispanic Literature and Culture	3
SPA 492	Senior Capstone Seminar	3
Choose from 12 hours of additional electives		12
<i>Exit Requirements</i>		
SPA 492	Senior Capstone Seminar	
<i>Free Electives</i>		
Choose from 53 hours of free electives		53
<b>Total Hours</b>		<b>120</b>

1

A student may major in Spanish by completing a minimum of 30 hours in courses numbered 200 and above; 24 of these hours must be at the 300 level or above.

A grade of "C" or higher is required in each course for credit toward the major. Students must attain a 2.75 GPA in their major.

## Spanish, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
Choose from a minimum of 21 hours of courses numbered 200 and above; 15 hours must be at the 300 level or above		21
HIS 384	Modern Latin America Modern Latin America (Strongly recommended)	
<b>Total Hours</b>		<b>21</b>

A grade of "C" or higher is required in each course for credit toward the minor.

## Spanish/Teaching, Bachelor of Arts (B.A.)

### Program Requirements

CIP Code: 13.1330

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Spanish Teaching majors will fulfill ACCT with the following or a program approved study abroad experience. (Credit hours are incorporated into program requirements below.)		
SPA 321S	Spanish for the Social Services	
<b>Major Requirements</b>		
<i>Core Courses</i> <sup>1</sup>		
SPA 300	Advanced Conversation	3
SPA 301 & SPA 360	Reading and Culture and Grammar in Contexts	6
SPA 380 or SPA 381	Civilizations of Spain Civilizations of Latin America	3
SPA 405 or SPA 406 or SPA 407	Hispanic Literature Culture Hispanic Literature Culture Hispanic Literature and Culture	3
SPA 492	Senior Capstone Seminar	3
Choose from 12 hours of additional electives		12
<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2

EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	3
EME 442	Teaching Foreign Language in Grades P-8	3
ESE 543	Teaching of Language Arts in the Secondary School	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>Exit Requirements</i>		
SPA 492	Senior Capstone Seminar	
<i>Free Electives</i>		
Choose from 13 hours of free electives		13
<i>Exit Requirements</i>		
PRAXIS Examination		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>120</b>

1

A student may major in Spanish by completing a minimum of 30 hours in courses numbered 200 and above; 24 of these hours must be at the 300 level or above.

**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

A grade of "C" or higher is required in each course for credit toward the major. Students must attain a 2.75 GPA in their teaching major.

## Department of Psychology

### Interim Chair

Dr. Hung-Tao Michael Chen  
(859) 622-1105  
Cammack 127

### Faculty

T. Botts, M. Bundy, H.T. Chen, D. Florell, M. Freeman, J. Gore, J. Henning, S. Incera, A. Lawson, R. Makecha, M. McClellan, R. Mitchell, M. Moore, Y. Nakai, J. Palmer, A. Strait, J. Turner, D. Varakin, S. Wilson, M. Winslow, and D. Wygant

## Bachelor's

- Animal Studies, Bachelor of Science (B.S.) (p. 346)
- Psychology, Bachelor of Science with a Concentration in Art Therapy (B.S.) (p. 347)
- Psychology, Bachelor of Science with a Concentration in Brain and Cognitive Sciences (B.S.) (p. 349)
- Psychology, Bachelor of Science with a Concentration in Child and Family Psychology (B.S.) (p. 351)
- Psychology, Bachelor of Science with a Concentration in Developmental Disabilities/Autism Spectrum Disorders (B.S.) (p. 352)
- Psychology, Bachelor of Science with a Concentration in Forensic Psychology (B.S.) (p. 354)
- Psychology, Bachelor of Science with a Concentration in Psychiatric Rehabilitation (B.S.) (p. 356)
- Psychology, Bachelor of Science with a Concentration in Psychology (General) (B.S.) (p. 357)
- Psychology, Bachelor of Science with a Concentration in Psychology of the Workplace (B.S.) (p. 359)
- Psychology, Bachelor of Science with a Concentration in Substance Abuse (B.S.) (p. 360)

## Associate's

*No results were found.*

## Minor

- Psychology, Minor (p. 362)
- Veterans Studies, Minor (p. 362)

## Certificate

- Veterans Studies, University Certificate (p. 363)

## Courses

### Animal Science

#### ANS 200. Introduction to Animal Studies. (3 Credits)

A. A survey of the field of animal studies, focusing on animals' lives and histories, and the human experience of animals as food, as objects of entertainment, spectacle and science, as companions, and as representations.

#### ANS 258. Career Development in Animal Studies. (3 Credits)

(3) A. Prerequisite: Animal Studies majors only and at least sophomore standing. Prerequisite or Corequisite: ANS 200. The course will acquaint Animal Studies majors with various career opportunities in Animal Studies, and help students recognize and build the skills and credentials they need to gain entry into their desired career.

#### ANS 310. Animals in Literature. (3 Credits)

A. Prerequisite: ANS 200 (C) or ENG 102 or ENG 105 (B) or HON 102, or instructor approval. The course surveys the rhetorical and thematic use of animals in imaginative texts.

#### ANS 320. Animals in History. (3 Credits)

A. Prerequisite: ANS 200(C) or instructor approval. A survey of the history of animals in European and American cultures, from prehistory to the modern age. Animals are examined as food, objects of entertainment and knowledge, companions, and representations.

**ANS 349. Applied Learning in Animal Studies. (0.5-8 Credits)**

(.5-8) A. Prerequisites: ANS 200 (C) and BIO 112 (C) and ANT 120 (C) or departmental approval. Work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit. Course may be repeated for up to 16 credits total. Graded Satisfactory/Unsatisfactory.

**ANS 350. Animal Enrichment. (3 Credits)**

(3) A. Cross-Listed as PSY 350. Prerequisite: ANS 200 or PSY 200. Covers the concept and practice of animal enrichment. Students will learn about the theoretical and applied aspects of enrichment and will acquire experience designing and implementing enrichment. Credit will not be awarded to students who have credit for PSY 350.

**ANS 400. Senior Seminar. \_\_\_\_\_. (3 Credits)**

A. Prerequisite: ANS 200 (C) and 15 hours of courses required for the ANS major. The senior seminar examines a topic in animal studies from the perspectives of application, science, and humanities. May be retaken once, provided the subject matter differs each time.

**ANS 497. Topics in Animal Studies. (3 Credits)**

A. Prerequisite: ANS 200 (C) and 9 hours of courses required for the ANS major, or instructor approval. The course examines a topic in animal studies in detail. May be retaken once, provided the subject matter differs each time.

**ANS 499. Senior Exit Course in Animal Studies. (0 Credits)**

(0) I, II. Prerequisite: 102 credit hours completed. Students will complete the Senior Exit Survey and the Senior Knowledge Exam in this course.

## Psychology

**PSY 200. Introduction to Psychology. (3 Credits)**

I,II. A survey of the major content areas and methods of psychology, including history, biological correlates, cognition, language, intelligence, motivation, emotion, development, personality, abnormal, therapy, and social behavior. Credit will not be awarded to students who have credit for PSY 200W. Gen. Ed. VB, VC, or VII (SBS). E-5B [SB].

**PSY 200W. Introduction to Psychology: Writing Intensive. (3 Credits)**

I, II. Prerequisites: ENG 102 or 105 (B) or HON 102, and completion of developmental reading requirement. A writing intensive survey of the major content areas and methods of psychology, including history, biological correlates, cognition, language, intelligence, motivation, emotion, development, personality, abnormal, therapy, and social behavior. Credit will not be awarded to students who have credit for PSY 200. Gen. Ed. VB, VC, or VII (SBS). E5B.

**PSY 200Z. Introduction to Psychology. (3 Credits)**

I,II. Prerequisite: completion of developmental reading requirement. A survey of the major content areas and methods of psychology, including history, biological correlates, cognition, language, intelligence, motivation, emotion, development, personality, abnormal, therapy, and social behavior. Credit will not be awarded to students who have credit for PSY 200W. Gen. Ed. VB, VC, or VII (SBS). E-5B [SB].

**PSY 240. Scientific Literacy in Psychology. (3 Credits)**

A. Prerequisites: PSY 200 and Pre or Corequisite: ENG 102 or 102R or ENG 105(B) or HON 102. Information literacy, reading, evaluating, summarizing scientific literature in Psychology; scientific writing (APA format); basic research terminology. Credit will not be awarded for both PSY 240 and PSY 250 or PSY 250W.

**PSY 258. Career Development in Psychology. (3 Credits)**

A. Pre or Corequisite: PSY 240 or VTS 200. Will acquaint psychology majors with career opportunities, and help students recognize and build the skills needed for their desired career field. Credit will not be awarded for both PSY 258 and PSY 358.

**PSY 280. Lifespan Developmental Psych.. (3 Credits)**

I, II. Prerequisite: PSY 200. A survey of theory and research in developmental psychology across the entire life span. May not be applied to the Psychology major. Credit will not be awarded to students who have credit for PSY 280W. Gen. Ed. VB, VC, or VII (SBS).

**PSY 280W. Lifespan Developmental Psychology: Writing Intensive. (3 Credits)**

I, II. Prerequisites: PSY 200; ENG 102 or ENG 105 (B) or HON 102. A writing-intensive survey of theory and research in developmental psychology across the entire life span. May not be applied to the Psychology major. Credit will not be awarded to students who have credit for PSY 280. Gen. Ed. VB, VC, or VII (SBS).

**PSY 300. Social Psychology. (3 Credits)**

A. Prerequisite: PSY 200 and Pre or Corequisite: ENG 102 or 102R or ENG 105 (B) or HON 102. A study of the power of situations and the social environment to affect human behavior. Topics include: attitudes, persuasion, prejudice, discrimination, group behavior, interpersonal attraction, aggression and prosocial behavior. Credit will not be awarded for both PSY 300 and PSY 300W.

**PSY 300W. Social Psychology: W. (3 Credits)**

A. Prerequisites: PSY 250 or PSY 250W and ENG 102 or ENG 105 (B) or HON 102. Writing intensive study of the power of situations and the social environment to affect human behavior. Topics include: attitudes, persuasion, prejudice, discrimination, group behavior, interpersonal attraction, aggression and prosocial behavior. Credit will not be awarded to students who have credit for PSY 300.

**PSY 305. Psychology of Personality. (3 Credits)**

A. Prerequisites: PSY 200 and Pre or Corequisite: ENG 102 or 102R or ENG 105 (B) or HON 102. Basic approaches to the study of personality. Theories and research about how personality affects behavior and life outcomes.

**PSY 308. Abnormal Psychology. (3 Credits)**

A. Prerequisites: PSY 200 and Pre or Corequisite: ENG 102 or 102R or ENG 105 (B) or HON 102. Descriptive study of the nature, course, classification and prevalence of abnormal behavior, with attention to intellectual, personality, cognitive, sensory and motor functions.

**PSY 311. Physiological Psychology. (3 Credits)**

A. Prerequisites: PSY 240 or 250 or 250W and ENG 102 or ENG 105(B) or HON 102. Facts, concepts, and principles regarding physiological events that underlie behavior. Attention to contemporary research methods and problems undergoing study.

**PSY 312. Infant and Child Development. (3 Credits)**

A. Prerequisites: PSY 200, and Pre or Corequisite: ENG 102 or 102R or ENG 105(B) or HON 102. Theoretical and empirical approaches to the development of the infant and child with attention to perceptual, behavioral, social, and cognitive development and the capacity for learning.

**PSY 314. Adolescent and Adult Development. (3 Credits)**

A. Prerequisite: PSY 200 and ENG 102 or ENG 105(B) or HON 102. Survey of biological, psychological, social, cognitive, and historical influences on adolescent and adult development.

**PSY 315. Sensation and Perception. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or ENG 105(B) or HON 102. Experimental study of sensation and perception, the sensory and cognitive processes by which we come to know our world. Credit will not be awarded for both PSY 315 and PSY 315L.

**PSY 315L. Sensation and Perception Lab. (4 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or ENG 105(B) or HON 102. Experimental study of sensation and perception, the sensory and cognitive processes by which we come to know our world. 3 Lec/2 Lab. Credit will not be awarded for both PSY 315L and PSY 315.

**PSY 316. Aging and Senescence. (3 Credits)**

A. Prerequisites: PSY 200, and Pre or Corequisite: ENG 102 or 102R or ENG 105(B) or HON 102. Theory and facts about aging changes in sensory processes, intellect, memory, personality, family and psychopathology.

**PSY 317. Cognitive Psychology. (3 Credits)**

A. Prerequisite or co-requisite: PSY 309. Theoretical and empirical approaches to human cognition. Topics include knowledge acquisition and organization, memory, language, problem solving, and thinking skills. Credit will not be awarded for both PSY 317 and PSY 317L.

**PSY 317L. Cognitive Psychology Lab. (4 Credits)**

A. Prerequisite or co-requisite: PSY 309 or PSY 309W or PSY 340W. Theoretical and empirical approaches to human cognition. Topics include knowledge acquisition and organization, memory, language, problem solving, and thinking skills. 3 Lec/2 Lab. Credit will not be awarded for both PSY 317 and PSY 317L.

**PSY 318. Introduction to School Psychology. (3 Credits)**

(3) A. Prerequisites: PSY 240 or PSY 250 or PSY 250W; ENG 102, ENG 105(B) or HON 102; CMS 100, 210, or EES 250. Introduction to the field of School Psychology. Topics include developmental disabilities, mental health diagnoses, assessment, consultation, direct intervention, history of school psychology, and professional considerations.

**PSY 319. Psychology of Work. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 319S. Psychology of Work. (3 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Service learning included in course. Credit will not be awarded for both PSY 319 and 319S.

**PSY 320. Health Psychology. (3 Credits)**

I, II. Prerequisites: PSY 240 or PSY 250 or PSY 250W, and ENG 102 or ENG 105(B) or HON 102. Theoretical and research perspectives on the relationship between psychological factors and health. Emphasis on utilizing psychological principles and methodology to understand and change illness and health behaviors. Credit will not be awarded for both PSY 410 and PSY 320.

**PSY 321. Psychology Perspectives of Parenting and Child Care. (3 Credits)**

(3) A. Prerequisite: PSY 200 and PSY 312. A survey of major psychological theories related to parenting and child care. Topics include attachment, development, behavior, temperament, and parenting styles.

**PSY 322. Cognitive Development. (3 Credits)**

A. Formerly PSY 530. Prerequisite: PSY 240 or PSY 250 or PSY 250W, or departmental approval. Overview of how individuals become intelligent through the acquisition of knowledge, learning to reason, think, and engage in abstract thought. Credit will not be awarded to students who have credit for PSY 530.

**PSY 327. ABA for Behavior Technicians. (3 Credits)**

A. Prerequisite: PSY 200 or departmental approval. Introduction to the principles and practices of applied behavior analysis that provides students with the theoretical knowledge and practical skills to apply for the Registered Behavior Technician credential.

**PSY 330. ABA Assessment and Measurement. (3 Credits)**

Prerequisites: PSY 240 or PSY 250 or PSY 250W; ENG 102, 105 (B), or HON 102; and CMS 100 or 210. An introduction to assessment and measurement in behavior analysis.

**PSY 333. Comparative Psychology. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or ENG 105(B) or HON 102. A survey of theory and research in the psychology of animals. Topics include history of scientific studies, learning, memory, representation, intelligence, knowledge, innovation, culture, communication, development, emotion, social skill, consciousness, and theory of mind.

**PSY 337. Introduction to Psychiatric Rehabilitation. (3 Credits)**

Prerequisite: PSY 308. Introduces students to the background and supporting research behind psychiatric rehabilitation, as well as the field's underlying values and principles.

**PSY 340W. Research Literacy in Psychology. (3 Credits)**

Prerequisites: MAT 105(C) or MAT 106(C) or any MAT course above 106 or PHI 101 or PHI 101R or STA 215; PSY 240 or 250 or 250W; and ENG 102 or 102R or ENG 105(B) or HON 102. Writing intensive introduction to the research methods used in Psychology. Students will not receive credit for both PSY 340W and PSY 309 or 309W.

**PSY 349. Applied Learning in Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W or PSY 258 and departmental approval. Work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit. Three hours may be applied toward the major, not applicable toward a minor. Course may be repeated for up to 16 credits total. Graded Satisfactory/ Unsatisfactory.

**PSY 349A. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and departmental approval. Work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit. Three hours may be applied toward the major, not applicable toward a minor. Course may be repeated for up to 16 credits total. Graded Satisfactory- Unsatisfactory.

**PSY 349B. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349C. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349D. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349E. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349F. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349G. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349H. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 350. Animal Enrichment. (3 Credits)**

(3) A. Cross-Listed as ANS 350. Prerequisite: ANS 200 or PSY 200. Covers the concept and practice of animal enrichment. Students will learn about the theoretical and applied aspects of enrichment and will acquire experience designing and implementing enrichment. Credit will not be awarded to students who have credit for ANS 350.

**PSY 377. Psychology of Adoption. (3 Credits)**

(3) A. Prerequisites: PSY 308; PSY 312, 280, or 280W. A survey of developmental, familial, cultural, and psychological factors in the adoption experience.

**PSY 392. Environmental Psychology. (3 Credits)**

I, II. Prerequisites: PSY 200, and ENG 102 or ENG 105(B) or HON 102. Study of ways in which people influence the environment and are influenced by it. Issues include discussion of both the natural and built environment. Credit will not be awarded for both PSY 404 and PSY 392.

**PSY 397. Topics in Psychology:\_\_\_\_. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or 105(B) or HON 102. Selected topics for study. Variable topics across semesters in terms of student interest and available faculty. May be retaken for a maximum of 12 credits, provided the subject matter differs each time.

**PSY 399. Research Development Skills. (3 Credits)**

(3) I, II. Prerequisites: ENG 102, ENG 105(B), or HON 102; PSY 309 or 309W or 340W and departmental approval. Prerequisite or Corequisite: PSY 310(C). Advanced development of research skills including generating hypotheses and designing the appropriate methodology to test them. Students will also write a faculty-supervised research proposal, with the purpose of completing the research project in PSY 419.

**PSY 400. Senior Seminar:\_\_\_\_. (3 Credits)**

A. Prerequisite or co-requisite: PSY 310 or 399 or 440 or departmental approval. The senior seminar examines contemporary psychological issues from each of the five sub-disciplines of Psychology. Issues vary from semester to semester. May be retaken once, provided the subject matter differs each time.

**PSY 402. Independent Work in Psychology. (1-3 Credits)**

I, II. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. Results must be presented in a formal paper. May be retaken to a maximum of six hours provided different problems are studied.

**PSY 405. Intro to Interviewing/Therapy. (3 Credits)**

A. Prerequisite: PSY 240 or PSY 250 or PSY 250W and PSY 308. Introduction to the basic concepts and skills of interviewing and therapeutic communication in the mental health field.

**PSY 406. Intro to Behavior Therapy. (3 Credits)**

A. Prerequisite: PSY 240 or PSY 250 or PSY 250W, and PSY 308, and ENG 102 or ENG 105(B) or HON 102. Principles and techniques of applying behavioral principles in the analysis of complex human behavior. Emphasis is placed on methods of observing behavior and analyzing functional relationships between behavior and environment.

**PSY 408. Child Psychopathology. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W, and PSY 308, and PSY 280 or PSY 312, and ENG 102 or ENG 105(B) or HON 102. Descriptive study of behavior disorders in children, with attention to symptoms or behavioral patterns, etiological influences, relevant research, theoretical underpinnings, and approaches to assessment and intervention.

**PSY 409. Experiential Learning in Psychology. (0 Credits)**

(0) I, II. Prerequisite: Departmental approval. Supervised field experience in Psychology. Only full-time students may enroll.

**PSY 410. Health Psychology. (3 Credits)**

I, II. Prerequisite: PSY 200 or departmental approval. Theoretical and research perspectives on the relationship between psychological factors and health. Emphasis on utilizing psychological principles and methodology to understand and change illness and health behaviors.

**PSY 412. The Psychology of Art. (3 Credits)**

A. Prerequisite: PSY 240 or PSY 250 or PSY 250W and PSY 305 and PSY 308 and ENG 102 or ENG 105(B) or HON 102 or departmental approval. Exploration of the ways in which selected psychological principles contribute to our understanding of art and the artist.

**PSY 413. Mind & Brain. (3 Credits)**

A. Prerequisites: PSY 250, and PSY 311(C) or 313(C) or 315(C) or 317(C) or 530(C). A bridging discipline between cognitive science and biopsychology that examines the neural bases of mental processes and complex behavior. Major topics include functional brain imaging, neural networks, perception, memory, language, and consciousness.

**PSY 414. Political Psychology. (3 Credits)**

A. Prerequisites: PSY 250 and PSY 300, and ENG 102 or ENG 105(B) or HON 102, and CMS 100 or CMS 210, or departmental approval. Seminar covers research that applies psychological methods and theory to politics. Areas covered include personality and politics, and the psychological perspectives of media bias, ideology, conflict, prejudice, and terrorism.

**PSY 415. Multicultural Psychology. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W, and PSY 300, and ENG 102 or ENG 105(B) or HON 102, or departmental approval. Examines the value-laden nuances of mainstream psychology and its early history of promoting discrimination toward diverse groups in American society, while introducing the multicultural approach for combating the resulting "isms" (e.g. racism, genderism).

**PSY 419. Research Development Skills II. (3 Credits)**

(3) I, II. Prerequisites: PSY 399 and Research Proposal Approved by ECU IRB. Advanced development of data gathering, data analysis and research presentation skills. Students will execute research developed in PSY 399, learn alternative data management and analyses techniques, prepare oral and written presentations of research. Credit will not be awarded to students who have credit for PSY 401.

**PSY 420. Psychology of Women and Gender. (3 Credits)**

A. Cross-listed as WGS 420. Prerequisite: PSY 240 or PSY 250 or PSY 250W, and PSY 300, and completion of academic readiness indicators in reading. ENG 102 or ENG 105(B) or HON 102, or departmental approval. Introduction to current and historical theories and research into the psychology of women, including gender differences and similarities.

**PSY 429. Psychological Perspectives on Substance Abuse. (3 Credits)**

(3) A. Prerequisite: PSY 308. Topics include an overview of current and historical models of addiction and a comparison of assessment and treatment techniques. Evidence-based practice is emphasized.

**PSY 430. ABA Ethics and Intervention. (3 Credits)**

A. Prerequisites: PSY 330 and departmental approval. An introduction to ethical principles of behavior analysts and behavior change systems.

**PSY 437. Psychiatric Rehabilitation Competencies. (3 Credits)**

Prerequisite: PSY 337. Builds on introduction to Psychiatric Rehabilitation by focusing on key components of the Psychiatric Rehabilitation process. Emphasis will be placed on the development of practitioner skills and techniques.

**PSY 440. Applied Scientific Literacy in Psychology. (3 Credits)**

Prerequisite: PSY 309 or 309W or 340W. Applying scientific literacy techniques to the evaluation of claims in everyday scenarios, and developing evidence-based psychological skills in a variety of workplace environments. Students will not receive credit for both PSY 440 and PSY 310.

**PSY 458. Grad School Prep. (3 Credits)**

(3) A. Prerequisite: Junior or senior standing in Psychology; or departmental approval. Hands-on workshop for students intending to pursue graduate education in the near future.

**PSY 476. Psychology of Trauma. (3 Credits)**

Prerequisites: ENG 101, 101R, 102 (B), or HON 102; PSY 240 or PSY 250 or PSY 250W or 308, or Departmental Approval. Topics include trauma and trauma-related assessment and interventions from diverse clinical perspectives. Emphasis will be on the applications of theoretical viewpoints to a variety of posttraumatic situations with a transtheoretical approach to clinical scholarship on trauma.

**PSY 477. Psychology of Intellectual and Developmental Disabilities. (3 Credits)**

(3) A. Prerequisites: PSY 240 or 250 or 250W, PSY 308, PSY 408, and PSY 280 or 312; or departmental approval. Survey of developmental disabilities, including causes, impacts on the individuals and their families, and intervention approaches, as well as broader topics such as education, service delivery approaches, and ethics.

**PSY 490. Clinical Psychology. (3 Credits)**

A. Prerequisite: PSY 250, and PSY 308, and ENG 102 or ENG 105(B) or HON 102. Survey of clinical theories, methods, and approaches.

**PSY 497. Advanced Topics in Psychology. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W, ENG 102, ENG 105(B), or HON 102, or departmental approval. Selected topics for study. Variable topics across semesters in terms of student interest and available faculty. May be retaken for a maximum of 12 hours provided the subject matter differs each time.

**PSY 499. Senior Exit Course in Psychology. (0 Credits)**

(0) I, II. Prerequisite: Senior standing and major in Psychology. Students will complete the Senior Exit Survey and the Senior Knowledge Exam in this course.

**PSY 502. Behavioral Applications I. (3 Credits)**

Prerequisite: PSY 501. This course builds on principles of behavior analysis in creating behavior change across a range of populations, behaviors, and settings. The focus is on fundamental elements of behavior.

**PSY 503. Practicum in Psychology. (1-3 Credits)**

A. Prerequisite: PSY 240 or PSY 250; PSY 309W or PSY 340W, or departmental approval. Practicum experience in which students will utilize their knowledge of psychological theory and methodology in an applied setting. May be retaken for a maximum of 6 hours. Students will not receive credit for both PSY 503 and PSY 703.

**PSY 510. Publishing Empirical. (3 Credits)**

A. Prerequisites: PSY 310 or 399 or 440 or equivalent, and department approval. Students must submit proposals to instructor prior to enrollment. This course will focus on analyzing, writing and submitting results of a psychological study or experiment to an undergraduate or professional journal.

**PSY 513. Mind and Brain. (3 Credits)**

(3) A. Prerequisite: PSY 311 (C), 313 (C), 315(C), 317(C), or 530(C). A bridging discipline between cognitive science and biopsychology examining neural bases of consciousness, mental processes and complex behavior. Major topics include prefrontal cortex functioning, neural networks, decision making, working memory, emotional control, and frontal disconnections. Credit will not be awarded for both PSY 513 and PSY 413.

**PSY 530. Cognitive Development. (3 Credits)**

A. Prerequisite: PSY 309 or departmental approval. Overview of how individuals become intelligent through the acquisition of knowledge, learning to reason, think, and engage in abstract thought.

**PSY 566. Forensic Psychology. (3 Credits)**

A. Formerly PSY 466. Prerequisites: PSY 240 or PSY 250 or PSY 250W, 308, and 6 additional hours in PSY. Review the roles of clinical psychologists in the legal system, focusing on principles of forensic mental health assessment, procedures of civil and criminal forensic psychological assessment, expert testimony, and forensic report writing. Credit will not be awarded to students who have credit for PSY 466.

**PSY 577. The Autism Spectrum. (3 Credits)**

A. Prerequisites: PSY 280 or PSY 312, and PSY 308, and PSY 309 or 309W or 340W, or departmental approval. Introduction to assessment, diagnosis, and intervention in autism spectrum disorders across the life span. Development of skills in applied assessment and intervention.

**PSY 579. History and Systems Of Psychology. (3 Credits)**

A. Prerequisite: PSY 311 or PSY 315; PSY 317, PSY 322 or PSY 530 or PSY 333; PSY 312 or PSY 314 or PSY 316; PSY 300 or PSY 305 or PSY 308 or departmental approval; CMS 100 or CMS 210. Prerequisite or co-requisite: PSY 310 or departmental approval. A survey of the history of psychology and its various schools of thought and approaches to the study of behavior and mental processes.

**PSY 590. Tests and Measurements. (3 Credits)**

A. Prerequisites: PSY 309 or 309W or 340W or departmental approval. Study of measurement principles with application in psychology, business, industry, and government. Interpretation, use, and evaluation of measurement and job analysis methods. Reliability, validity, utility, ethical/legal concerns are examined.

**PSY 597. Advanced Topics in Psychology:\_\_\_\_. (3 Credits)**

A. Prerequisite: PSY 240 or PSY 250 or PSY 250W, and ENG 102 or ENG 105(B) or HON 102 or departmental approval. Selected topics for advanced study. Topics vary across semesters depending on student interest and available faculty. May be retaken up to 12 hours.

**Veteran Studies****VTS 200. Intro to Veteran Studies. (3 Credits)**

A. Multidisciplinary study of military/veteran issues and perceptions of veterans. Explores impact of training/service on reintegration into civilian life and relationships. First course in VTS minor. Designed for non-veterans and veterans. Gen. Ed. Element 6.

**VTS 300. Veterans in Society. (3 Credits)**

A. Prerequisite: VTS 200 or equivalent proficiency. (Students entering VTS 300 by referral or placement receive three hours credit for VTS 200 if they make an A or B in 300.) Concentrated study of veteran subgroups, veterans' contributions to society, and the ways societal perceptions of military service influence homecoming experiences. May include field trips or service learning. Gen. Ed. E-6 [GE].

**VTS 349. Applied Learning for Veterans Studies. (0.5-8 Credits)**

A. Prerequisite or corequisite: VTS 200 and junior standing. Work or volunteer in an area related to Veteran Studies. 0.50 to eight hours credit. A minimum of 80 hours employment required for each semester hour credit. No more than 6 hours may count toward VTS program.

**VTS 349A. Cooperative Study: Veteran Studies. (0.5-8 Credits)**

A. Prerequisite: VTS 200 and junior standing. Work or volunteer in an area related to Veteran Studies. One to eight hours credit. A minimum of 80 hours employment required for each semester hour credit. No more than 3 hours may count toward VTS program.

**VTS 350. Special Topics:\_\_\_\_. (3 Credits)**

A. Prerequisite: VTS 200. Exploration of topics not covered in the existing VTS curriculum. May be taken for a maximum of six hours provided the subject matter is different each time.

**VTS 400. Veterans Studies Capstone Seminar. (3 Credits)**

A. Prerequisites: VTS 200 and 12 hours of VTS dimensional electives. Instructor mentored seminar incorporating previous gained knowledge concomitantly with course research to produce material presentable for publication and/or conference presentation. Class will organize a capstone symposium.

**VTS 401. Veterans Studies Capstone Project. (3 Credits)**

A. Prerequisites: VTS 200 and departmental approval. Mentored research project exploring veterans' identities, cultures, and experiences. Combines theories and perspectives learned in VTS with those found in the student's major.

**VTS 490. Independent Study. (3 Credits)**

A. Prerequisite: VTS 200 and junior standing. Independent research and study in an area related to veterans studies. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and program director prior to enrollment.

**VTS 500. Veteran Identity Theory. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 102R, ENG 105(B), or HON 102, VTS 200, and Junior standing. Advanced study and application of interdisciplinary theories and perspectives to the topic of veteran identity.

## Animal Studies, Bachelor of Science (B.S.)

### Program Objectives

Animal Studies (ANS) is an interdisciplinary major that concentrates on nonhuman animals, their interactions and relationships with people, and the mutual influences humans and nonhuman animals have on each other's existence, evolution, and history. Students in Animal Studies receive training in sciences, humanities, and applied fields. Within their cross-disciplinary training, students will choose to emphasize at least one of these areas of study. Graduates of the program will gain knowledge of and be able to evaluate ideas about nonhuman animals, humans, and their mutual influences informatively from diverse perspectives. Upon completion of the ANS degree, graduates will be able to

1. analyze contexts and events concerning animals knowledgeably and from diverse points of view;
2. elucidate the motives and consequences for diverse human-animal interactions;
3. evaluate the impacts of human uses of and attitudes toward animals on individuals and communities, and on evolution and history;
4. integrate cross-disciplinary ideas into an awareness of divergent perspectives on animals and humans; and
5. use skills and expertise in understanding animals and humans to obtain employment.

### Program Requirements

CIP Code: 30.9999

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3

C: Oral Communication (p. 62)	3
<b>Element 2</b>	
Quantitative Reasoning (p. 63)	3
<b>Element 3</b>	
A: Arts (p. 63)	3
B: Humanities (p. 63)	3
<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Animal Studies majors will fulfill ACCT with the following or other relevant thesis option approved by Animal Studies Advisor. (Hours incorporated into program requirements below.)		
ANS 400	Senior Seminar.____	
	or PSY 402 Independent Work in Psychology	
	or PSY 419 Research Development Skills II	

### Major Requirements

<i>Core Courses</i>		
ANS 200	Introduction to Animal Studies	3
Arts & Humanities:		
ANS 320	Animals in History	3
PHI 381	Animal Ethics	3
SOC 300	Animals and Society	3
Choose from one of the following:		
ANS 310	Animals in Literature	
	or ANS 497 Topics in Animal Studies	
Other relevant arts or humanities course approved by Animal Studies Advisor		
Science:		
ANT 306	Human Evolution	3
	or ANT 371 Primate Ecology & Sociality	
BIO 319	General Zoology	4
BIO 316	Ecology	4
	or BIO 550 Animal Behavior	
PSY 333	Comparative Psychology	3

<i>Application:</i>		
AGR 125	Principles of Animal Science	3
ANT 370	Primate Conservation	3
Choose from one of the following:		
LGS 306	Animals and the Law	3
Other law-related course approved by Animal Studies Advisor		
Choose from three hours of relevant applied learning or study abroad course		3
<i>Career Development:</i>		
ANS 258	Career Development in Animal Studies	3
<i>Capstone (ACCT Requirement):</i>		
Choose from one of the following:		
ANS 400	Senior Seminar.____	
	or PSY 402 Independent Work in Psychology	
	or PSY 419 Research Development Skills II	
Other relevant thesis option, approved by Animal Studies Advisor		

### *Supporting Course Requirements*

Choose from five hours of the following:		
ANT 120	Introduction to Cultural Anthropology (Element 5B) <sup>G</sup>	5
ANT 201	Introduction to Biological Anthropology (Element 4) <sup>G</sup>	
BIO 111 & BIO 112	Cell and Molecular Biology and Ecology and Evolution (Element 4) <sup>G,1</sup>	

### *Animal Studies Electives*

Choose from nine hours of relevant courses, approved by Animal Studies Advisor 9

### *Exit Requirements*

ANS 499 Senior Exit Course in Animal Studies 0

### *Free Electives*

Choose from 20 hours of free electives 20

**Total Hours 120**

### **G**

Course also satisfies a General Education element. Nine hours are included within the 36 hr. General Education requirement above.

### 1

Three hours of BIO 111 Cell and Molecular Biology/BIO 112 Ecology and Evolution applied to General Education

A minimum grade of C is required for all courses counted toward the major.

## Psychology, Bachelor of Science with a Concentration in Art Therapy (B.S.)

### Program Objectives

Upon completion of the Psychology degree graduates will:

1. show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
2. use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;

3. respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
4. understand and apply psychological principles in many areas of life including personal, social and organizational;
5. be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
6. demonstrate information competence and the ability to use technology for many purposes;
7. be able to communicate and collaborate effectively;
8. understand and apply knowledge of human diversity to better people's lives;
9. develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement;
10. pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

## Program Requirements

CIP Code: 42.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)	
Choose from one of the following:	
PSY 349	Applied Learning in Psychology
PSY 400	Senior Seminar.____
PSY 419	Research Development Skills II
PSY 579	History and Systems Of Psychology

### Major Requirements

Core Courses		
PSY 200	Introduction to Psychology	3
PSY 240	Scientific Literacy in Psychology	3
PSY 258	Career Development in Psychology	3
PSY 340W	Research Literacy in Psychology	3
PSY 399	Research Development Skills	3
or PSY 440	Applied Scientific Literacy in Psychology	
PSY 499	Senior Exit Course in Psychology	0

Choose from at least three hours from each of the following areas: 18

Biological Bases of Behavior: <sup>1</sup>		
PSY 311	Physiological Psychology	
PSY 315	Sensation and Perception	
PSY 315L	Sensation and Perception Lab	
Cognition/Learning:		
PSY 317 & 317L	Cognitive Psychology and Cognitive Psychology Lab	
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	
Developmental: <sup>2</sup>		
PSY 312	Infant and Child Development	
PSY 314	Adolescent and Adult Development	
PSY 316	Aging and Senescence	
Social Personality: <sup>3</sup>		
PSY 300	Social Psychology	
PSY 305	Psychology of Personality	
PSY 308	Abnormal Psychology	
Skills: <sup>4</sup>		
PSY 318	Introduction to School Psychology	
PSY 319	Psychology of Work	
PSY 405	Intro to Interviewing/Therapy	
PSY 406	Intro to Behavior Therapy	
PSY 327	ABA for Behavior Technicians	
PSY 490	Clinical Psychology	
PSY 590	Tests and Measurements	

Capstone:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar.____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

### Concentrations

Students may select one or more of the following Concentrations: <sup>5</sup>	
Psychology (General)	
Art Therapy	12

Substance Abuse	
Developmental Disabilities/Autism Spectrum Disorders	
Forensic Psychology	
Child and Family Psychology	
Psychology of the Workplace	
Brain and Cognitive Sciences	
Psychiatric Rehabilitation	
<i>Free Electives</i>	
Choose from 32-39 hours of free electives	36-43
<b>Total Hours</b>	<b>120-127</b>

1  
Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

2  
Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

3  
Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

4  
Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

5  
Those who do not choose one will be placed in the General Concentration.

A minimum grade of "C" is required in all courses counted toward the major.

### Concentration

Art Therapists are required to earn a Master's degree in Art Therapy. Admission to Art Therapy Master's programs requires 18 hours of studio art classes in addition to the psychology classes that make up the concentration. Students pursuing the Art Therapy Concentration must also complete an 18-hour Art minor.

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 305	Psychology of Personality	3
PSY 412	The Psychology of Art	3
PSY 314 or PSY 316	Adolescent and Adult Development Aging and Senescence	3
Choose from one of the following:		3
PSY 406	Intro to Behavior Therapy	
PSY 408	Child Psychopathology	
PSY 476	Psychology of Trauma	

PSY 477	Psychology of Intellectual and Developmental Disabilities	
<b>Total Hours</b>		<b>12</b>

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

## Psychology, Bachelor of Science with a Concentration in Brain and Cognitive Sciences (B.S.)

### Program Objectives

Upon completion of the Psychology degree graduates will:

- show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
- use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;
- respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
- understand and apply psychological principles in many areas of life including personal, social and organizational;
- be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
- demonstrate information competence and the ability to use technology for many purposes;
- be able to communicate and collaborate effectively;
- understand and apply knowledge of human diversity to better people's lives;
- develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement;
- pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

### Program Requirements

CIP Code: 42.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6

<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36

<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

Choose from one of the following:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar:____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

### Major Requirements

<i>Core Courses</i>		
PSY 200	Introduction to Psychology	3
PSY 240	Scientific Literacy in Psychology	3
PSY 258	Career Development in Psychology	3
PSY 340W	Research Literacy in Psychology	3
PSY 399	Research Development Skills	3
or PSY 440	Applied Scientific Literacy in Psychology	
PSY 499	Senior Exit Course in Psychology	0

Choose from at least three hours from each of the following areas: 18

<b>Biological Bases of Behavior:</b> <sup>1</sup>		
PSY 311	Physiological Psychology	
PSY 315	Sensation and Perception	
PSY 315L	Sensation and Perception Lab	

<b>Cognition/Learning:</b>		
PSY 317 & 317L	Cognitive Psychology and Cognitive Psychology Lab	
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	

<b>Developmental:</b> <sup>2</sup>		
PSY 312	Infant and Child Development	
PSY 314	Adolescent and Adult Development	
PSY 316	Aging and Senescence	

<b>Social Personality:</b> <sup>3</sup>		
PSY 300	Social Psychology	
PSY 305	Psychology of Personality	

PSY 308	Abnormal Psychology
<b>Skills:</b> <sup>4</sup>	
PSY 318	Introduction to School Psychology
PSY 319	Psychology of Work
PSY 405	Intro to Interviewing/Therapy
PSY 406	Intro to Behavior Therapy
PSY 327	ABA for Behavior Technicians
PSY 490	Clinical Psychology
PSY 590	Tests and Measurements
<b>Capstone:</b>	
PSY 349	Applied Learning in Psychology
PSY 400	Senior Seminar:____
PSY 419	Research Development Skills II
PSY 579	History and Systems Of Psychology

**Concentrations**  
Students may select one or more of the following Concentrations: <sup>5</sup>

Psychology (General)	
Art Therapy	
Substance Abuse	
Developmental Disabilities/Autism Spectrum Disorders	
Forensic Psychology	
Child and Family Psychology	
Psychology of the Workplace	
Brain and Cognitive Sciences	31-32
Psychiatric Rehabilitation	

**Free Electives**  
Choose from 17 hours of free electives 17

**Total Hours** 120-121

<sup>1</sup> Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

<sup>2</sup> Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

<sup>3</sup> Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

<sup>4</sup> Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

<sup>5</sup> Those who do not choose one will be placed in the General Concentration.

A minimum grade of “C” is required in all courses counted toward the major.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 315	Sensation and Perception	3
PSY 317	Cognitive Psychology	3
PSY 513	Mind and Brain	3
Choose from one of the following:		3
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	
PSY 497	Advanced Topics in Psychology:____ (Must be approved)	
PSY 597	Advanced Topics in Psychology:____ (Must be approved)	
Choose from one of the following:		3-4
BIO 307	Human Anatomy and Physiology I	
MAT 234 or MAT 234+	Calculus I	
PHI 352	Theory of Knowledge	
INF 511	Principles of Game Design and Game Theory	3
STA 270	Applied Statistics	4
STA 215	Introduction to Statistical Reasoning	3
CSC 174	Introduction to Programming for Science & Engineering	3
ENG 510	Introduction to Linguistic Theory	3
<b>Total Hours</b>		<b>31-32</b>

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

## Psychology, Bachelor of Science with a Concentration in Child and Family Psychology (B.S.)

### Program Objectives

Upon completion of the Psychology degree graduates will:

- show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
- use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;
- respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
- understand and apply psychological principles in many areas of life including personal, social and organizational;
- be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
- demonstrate information competence and the ability to use technology for many purposes;
- be able to communicate and collaborate effectively;

- understand and apply knowledge of human diversity to better people’s lives;
- develop insight into their own and others’ behavior and mental processes and apply effective strategies for self-management and self-improvement;
- pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

### Program Requirements

CIP Code: 42.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar:____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	
<b>Major Requirements</b>		
<i>Core Courses</i>		

PSY 200	Introduction to Psychology	3
PSY 240	Scientific Literacy in Psychology	3
PSY 258	Career Development in Psychology	3
PSY 340W	Research Literacy in Psychology	3
PSY 399	Research Development Skills	3
or PSY 440	Applied Scientific Literacy in Psychology	
PSY 499	Senior Exit Course in Psychology	0
Choose from at least three hours from each of the following areas:		18
<b>Biological Bases of Behavior:</b> <sup>1</sup>		
PSY 311	Physiological Psychology	
PSY 315	Sensation and Perception	
PSY 315L	Sensation and Perception Lab	
<b>Cognition/Learning:</b>		
PSY 317 & 317L	Cognitive Psychology and Cognitive Psychology Lab	
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	
<b>Developmental:</b> <sup>2</sup>		
PSY 312	Infant and Child Development	
PSY 314	Adolescent and Adult Development	
PSY 316	Aging and Senescence	
<b>Social Personality:</b> <sup>3</sup>		
PSY 300	Social Psychology	
PSY 305	Psychology of Personality	
PSY 308	Abnormal Psychology	
<b>Skills:</b> <sup>4</sup>		
PSY 318	Introduction to School Psychology	
PSY 319	Psychology of Work	
PSY 405	Intro to Interviewing/Therapy	
PSY 406	Intro to Behavior Therapy	
PSY 327	ABA for Behavior Technicians	
PSY 490	Clinical Psychology	
PSY 590	Tests and Measurements	
<b>Capstone:</b>		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar_____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	
<b>Concentrations</b>		
Students may select one or more of the following Concentrations: <sup>5</sup>		
Psychology (General)		
Art Therapy		
Substance Abuse		
Developmental Disabilities/Autism Spectrum Disorders		
Forensic Psychology		
Child and Family Psychology		12
Psychology of the Workplace		
Brain and Cognitive Sciences		
Psychiatric Rehabilitation		
<i>Free Electives</i>		
Choose from 36-43 hours of free electives		36-43
<b>Total Hours</b>		<b>120-127</b>

1 Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

2 Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

3 Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

4 Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

5 Those who do not choose one will be placed in the General Concentration.

A minimum grade of "C" is required in all courses counted toward the major.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 314	Adolescent and Adult Development	3
PSY 405	Intro to Interviewing/Therapy	3
PSY 408	Child Psychopathology	3
Choose from one of the following:		3
PSY 318	Introduction to School Psychology	
PSY 321	Psychology Perspectives of Parenting and Child Care	
PSY 377	Psychology of Adoption	
<b>Total Hours</b>		<b>12</b>

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

**Psychology, Bachelor of Science with a Concentration in Developmental Disabilities/Autism Spectrum Disorders (B.S.)**

**Program Objectives**

Upon completion of the Psychology degree graduates will:

- show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
- use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;
- respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
- understand and apply psychological principles in many areas of life including personal, social and organizational;
- be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
- demonstrate information competence and the ability to use technology for many purposes;
- be able to communicate and collaborate effectively;
- understand and apply knowledge of human diversity to better people's lives;
- develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement;
- pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar.____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

**Major Requirements**

<i>Core Courses</i>		
PSY 200	Introduction to Psychology	3
PSY 240	Scientific Literacy in Psychology	3
PSY 258	Career Development in Psychology	3
PSY 340W	Research Literacy in Psychology	3
PSY 399	Research Development Skills	3
or PSY 440	Applied Scientific Literacy in Psychology	
PSY 499	Senior Exit Course in Psychology	0

Choose from at least three hours from each of the following areas: 18  
Biological Bases of Behavior: <sup>1</sup>

PSY 311	Physiological Psychology	
PSY 315	Sensation and Perception	
PSY 315L	Sensation and Perception Lab	

<i>Cognition/Learning:</i>		
PSY 317 & 317L	Cognitive Psychology and Cognitive Psychology Lab	
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	

<i>Developmental: <sup>2</sup></i>		
PSY 312	Infant and Child Development	
PSY 314	Adolescent and Adult Development	
PSY 316	Aging and Senescence	

<i>Social Personality: <sup>3</sup></i>		
PSY 300	Social Psychology	
PSY 305	Psychology of Personality	
PSY 308	Abnormal Psychology	

<i>Skills: <sup>4</sup></i>		
PSY 318	Introduction to School Psychology	
PSY 319	Psychology of Work	
PSY 405	Intro to Interviewing/Therapy	
PSY 406	Intro to Behavior Therapy	
PSY 327	ABA for Behavior Technicians	
PSY 490	Clinical Psychology	
PSY 590	Tests and Measurements	

<i>Capstone:</i>		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar.____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

**Program Requirements**

CIP Code: 42.0101

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	

**Concentrations**

Students may select one or more of the following Concentrations:<sup>5</sup>

Psychology (General)	
Art Therapy	
Substance Abuse	
Developmental Disabilities/Autism Spectrum Disorders	12
Forensic Psychology	
Child and Family Psychology	
Psychology of the Workplace	
Brain and Cognitive Sciences	
Psychiatric Rehabilitation	
<i>Free Electives</i>	
Choose from 36-43 hours of free electives	36-43
<b>Total Hours</b>	<b>120-127</b>

1

Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

2

Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

3

Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

4

Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

5

Those who do not choose one will be placed in the General Concentration.

A minimum grade of "C" is required in all courses counted toward the major.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 312	Infant and Child Development	3
PSY 406	Intro to Behavior Therapy	3
or PSY 327	ABA for Behavior Technicians	
PSY 408	Child Psychopathology	3
PSY 477	Psychology of Intellectual and Developmental Disabilities	3
or PSY 577	The Autism Spectrum	
<b>Total Hours</b>		<b>12</b>

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

## Psychology, Bachelor of Science with a Concentration in Forensic Psychology (B.S.)

### Program Objectives

Upon completion of the Psychology degree graduates will:

- show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
- use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;
- respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
- understand and apply psychological principles in many areas of life including personal, social and organizational;
- be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
- demonstrate information competence and the ability to use technology for many purposes;
- be able to communicate and collaborate effectively;
- understand and apply knowledge of human diversity to better people's lives;
- develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement;
- pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

### Program Requirements

CIP Code: 42.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
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#### University Graduation Requirements

General Education	36
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#### Student Success Seminar

GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

Choose from one of the following:

PSY 349 Applied Learning in Psychology

PSY 400 Senior Seminar:\_\_\_

PSY 419 Research Development Skills II

PSY 579 History and Systems Of Psychology

#### Major Requirements

##### Core Courses

PSY 200	Introduction to Psychology	3
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PSY 240	Scientific Literacy in Psychology	3
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PSY 258	Career Development in Psychology	3
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PSY 340W	Research Literacy in Psychology	3
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PSY 399	Research Development Skills	3
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or PSY 440 Applied Scientific Literacy in Psychology

PSY 499	Senior Exit Course in Psychology	0
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Choose from at least three hours from each of the following areas: 18

##### Biological Bases of Behavior: <sup>1</sup>

PSY 311 Physiological Psychology

PSY 315 Sensation and Perception

PSY 315L Sensation and Perception Lab

##### Cognition/Learning:

PSY 317 Cognitive Psychology & 317L and Cognitive Psychology Lab

PSY 322 Cognitive Development

PSY 333 Comparative Psychology

##### Developmental: <sup>2</sup>

PSY 312 Infant and Child Development

PSY 314 Adolescent and Adult Development

PSY 316 Aging and Senescence

##### Social Personality: <sup>3</sup>

PSY 300 Social Psychology

PSY 305 Psychology of Personality

PSY 308 Abnormal Psychology

##### Skills: <sup>4</sup>

PSY 318 Introduction to School Psychology

PSY 319 Psychology of Work

PSY 405	Intro to Interviewing/Therapy
PSY 406	Intro to Behavior Therapy
PSY 327	ABA for Behavior Technicians
PSY 490	Clinical Psychology
PSY 590	Tests and Measurements
Capstone:	
PSY 349	Applied Learning in Psychology
PSY 400	Senior Seminar:___
PSY 419	Research Development Skills II
PSY 579	History and Systems Of Psychology

#### Concentrations

Students may select one or more of the following Concentrations: <sup>5</sup>

Psychology (General)

Art Therapy

Substance Abuse

Developmental Disabilities/Autism Spectrum Disorders

Forensic Psychology 12

Child and Family Psychology

Psychology of the Workplace

Brain and Cognitive Sciences

Psychiatric Rehabilitation

#### Free Electives

Choose from 36-43 hours of free electives 36-43

**Total Hours 120-127**

1

Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

2

Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

3

Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

4

Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

5

Those who do not choose one will be placed in the General Concentration.

A minimum grade of "C" is required in all courses counted toward the major.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 300	Social Psychology	3
PSY 305	Psychology of Personality	3
PSY 314	Adolescent and Adult Development	3
PSY 566	Forensic Psychology	3
<b>Total Hours</b>		<b>12</b>

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

# Psychology, Bachelor of Science with a Concentration in Psychiatric Rehabilitation (B.S.)

## Program Objectives

Upon completion of the Psychology degree graduates will:

- show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
- use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;
- respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
- understand and apply psychological principles in many areas of life including personal, social and organizational;
- be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
- demonstrate information competence and the ability to use technology for many purposes;
- be able to communicate and collaborate effectively;
- understand and apply knowledge of human diversity to better people's lives;
- develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement;
- pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

## Program Requirements

CIP Code: 42.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3

### Element 3

A: Arts (p. 63)	3
B: Humanities (p. 63)	3

### Element 4

Natural Sciences (p. 64)	6
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### Element 5

A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3

### Element 6

Diversity of Perspectives Experiences (p. 65)	6
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<b>Total Hours</b>	<b>36</b>
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Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar. ____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

### Major Requirements

<i>Core Courses</i>		
PSY 200	Introduction to Psychology	3
PSY 240	Scientific Literacy in Psychology	3
PSY 258	Career Development in Psychology	3
PSY 340W	Research Literacy in Psychology	3
PSY 399	Research Development Skills	3
or PSY 440	Applied Scientific Literacy in Psychology	
PSY 499	Senior Exit Course in Psychology	0
Choose from at least three hours from each of the following areas: 18		
Biological Bases of Behavior: <sup>1</sup>		
PSY 311	Physiological Psychology	
PSY 315	Sensation and Perception	
PSY 315L	Sensation and Perception Lab	
Cognition/Learning:		
PSY 317 & 317L	Cognitive Psychology and Cognitive Psychology Lab	
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	
Developmental: <sup>2</sup>		
PSY 312	Infant and Child Development	

PSY 314	Adolescent and Adult Development	
PSY 316	Aging and Senescence	
Social Personality: <sup>3</sup>		
PSY 300	Social Psychology	
PSY 305	Psychology of Personality	
PSY 308	Abnormal Psychology	
Skills: <sup>4</sup>		
PSY 318	Introduction to School Psychology	
PSY 319	Psychology of Work	
PSY 405	Intro to Interviewing/Therapy	
PSY 406	Intro to Behavior Therapy	
PSY 327	ABA for Behavior Technicians	
PSY 490	Clinical Psychology	
PSY 590	Tests and Measurements	
Capstone:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar:___	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	
<b>Concentrations</b>		
Students may select one or more of the following Concentrations: <sup>5</sup>		
Psychology (General)		
Art Therapy		
Substance Abuse		
Developmental Disabilities/Autism Spectrum Disorders		
Forensic Psychology		
Child and Family Psychology		
Psychology of the Workplace		
Brain and Cognitive Sciences		
Psychiatric Rehabilitation		15
<i>Free Electives</i>		
Choose from 33-39 hours of free electives		33-39
<b>Total Hours</b>		<b>120-126</b>

<sup>1</sup>  
Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

<sup>2</sup>  
Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

<sup>3</sup>  
Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

<sup>4</sup>  
Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

<sup>5</sup>  
Those who do not choose one will be placed in the General Concentration.

A minimum grade of "C" is required in all courses counted toward the major.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 337	Introduction to Psychiatric Rehabilitation	3
PSY 349	Applied Learning in Psychology	3
	or PSY 403	
PSY 405	Intro to Interviewing/Therapy	3
PSY 429	Psychological Perspectives on Substance Abuse	3
PSY 437	Psychiatric Rehabilitation Competencies	3
<b>Total Hours</b>		<b>15</b>

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

## Psychology, Bachelor of Science with a Concentration in Psychology (General) (B.S.)

### Program Objectives

Upon completion of the Psychology degree graduates will:

- show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
- use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;
- respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
- understand and apply psychological principles in many areas of life including personal, social and organizational;
- be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
- demonstrate information competence and the ability to use technology for many purposes;
- be able to communicate and collaborate effectively;
- understand and apply knowledge of human diversity to better people's lives;
- develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement;

10. pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

## Program Requirements

CIP Code: 42.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar:___	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	
<b>Major Requirements</b>		
<i>Core Courses</i>		
PSY 200	Introduction to Psychology	3
PSY 240	Scientific Literacy in Psychology	3
PSY 258	Career Development in Psychology	3
PSY 340W	Research Literacy in Psychology	3

PSY 399	Research Development Skills	3
or PSY 440	Applied Scientific Literacy in Psychology	
PSY 499	Senior Exit Course in Psychology	0
Choose from at least three hours from each of the following areas:		18
<b>Biological Bases of Behavior:</b> <sup>1</sup>		
PSY 311	Physiological Psychology	
PSY 315	Sensation and Perception	
PSY 315L	Sensation and Perception Lab	
<b>Cognition/Learning:</b>		
PSY 317 & 317L	Cognitive Psychology and Cognitive Psychology Lab	
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	
<b>Developmental:</b> <sup>2</sup>		
PSY 312	Infant and Child Development	
PSY 314	Adolescent and Adult Development	
PSY 316	Aging and Senescence	
<b>Social Personality:</b> <sup>3</sup>		
PSY 300	Social Psychology	
PSY 305	Psychology of Personality	
PSY 308	Abnormal Psychology	
<b>Skills:</b> <sup>4</sup>		
PSY 318	Introduction to School Psychology	
PSY 319	Psychology of Work	
PSY 405	Intro to Interviewing/Therapy	
PSY 406	Intro to Behavior Therapy	
PSY 327	ABA for Behavior Technicians	
PSY 490	Clinical Psychology	
PSY 590	Tests and Measurements	
<b>Capstone:</b>		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar:___	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	
<b>Concentrations</b>		
Students may select one or more of the following Concentrations: <sup>5</sup>		
Psychology (General)		9
Art Therapy		
Substance Abuse		
Developmental Disabilities/Autism Spectrum Disorders		
Forensic Psychology		
Child and Family Psychology		
Psychology of the Workplace		
Brain and Cognitive Sciences		
Psychiatric Rehabilitation		
<i>Free Electives</i>		
Choose from 39 hours of free electives		39
<b>Total Hours</b>		<b>120</b>

1

Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

2

Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

3

Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

4

Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

5

Those who do not choose one will be placed in the General Concentration.

A minimum grade of "C" is required in all courses counted toward the major.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from nine hours of psychology electives, at least three hours must be numbered 400 or above <sup>1</sup>		9
<b>Total Hours</b>		<b>9</b>

1

PSY 280 Lifespan Developmental Psych., PSY 402 Independent Work in Psychology and PSY 403 may not be used as a psychology elective.

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

## Psychology, Bachelor of Science with a Concentration in Psychology of the Workplace (B.S.)

### Program Objectives

Upon completion of the Psychology degree graduates will:

1. show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
2. use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;
3. respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
4. understand and apply psychological principles in many areas of life including personal, social and organizational;

5. be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
6. demonstrate information competence and the ability to use technology for many purposes;
7. be able to communicate and collaborate effectively;
8. understand and apply knowledge of human diversity to better people's lives;
9. develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement;
10. pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

## Program Requirements

CIP Code: 42.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
PSY 349	Applied Learning in Psychology	

PSY 400	Senior Seminar:____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

**Major Requirements**

*Core Courses*

PSY 200	Introduction to Psychology	3
PSY 240	Scientific Literacy in Psychology	3
PSY 258	Career Development in Psychology	3
PSY 340W	Research Literacy in Psychology	3
PSY 399	Research Development Skills	3
or PSY 440	Applied Scientific Literacy in Psychology	
PSY 499	Senior Exit Course in Psychology	0

Choose from at least three hours from each of the following areas: 18

**Biological Bases of Behavior:** <sup>1</sup>

PSY 311	Physiological Psychology	
PSY 315	Sensation and Perception	
PSY 315L	Sensation and Perception Lab	

**Cognition/Learning:**

PSY 317 & 317L	Cognitive Psychology and Cognitive Psychology Lab	
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	

**Developmental:** <sup>2</sup>

PSY 312	Infant and Child Development	
PSY 314	Adolescent and Adult Development	
PSY 316	Aging and Senescence	

**Social Personality:** <sup>3</sup>

PSY 300	Social Psychology	
PSY 305	Psychology of Personality	
PSY 308	Abnormal Psychology	

**Skills:** <sup>4</sup>

PSY 318	Introduction to School Psychology	
PSY 319	Psychology of Work	
PSY 405	Intro to Interviewing/Therapy	
PSY 406	Intro to Behavior Therapy	
PSY 327	ABA for Behavior Technicians	
PSY 490	Clinical Psychology	
PSY 590	Tests and Measurements	

**Capstone:**

PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar:____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

**Concentrations**

Students may select one or more of the following Concentrations: <sup>5</sup>

Psychology (General)	
Art Therapy	
Substance Abuse	
Developmental Disabilities/Autism Spectrum Disorders	
Forensic Psychology	
Child and Family Psychology	
Psychology of the Workplace	12

Brain and Cognitive Sciences	
Psychiatric Rehabilitation	

*Free Electives*

Choose from 36-43 hours of free electives 36-43

**Total Hours** 120-127

1

Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

2

Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

3

Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

4

Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

5

Those who do not choose one will be placed in the General Concentration.

A minimum grade of "C" is required in all courses counted toward the major.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 300	Social Psychology	3
PSY 305	Psychology of Personality	3
PSY 319	Psychology of Work	3
PSY 590	Tests and Measurements	3
<b>Total Hours</b>		<b>12</b>

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

**Psychology, Bachelor of Science with a Concentration in Substance Abuse (B.S.)**

**Program Objectives**

Upon completion of the Psychology degree graduates will:

1. show breadth and depth in their understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology;
2. use critical and creative thinking and skeptical inquiry when critiquing and applying research methods in psychology;
3. respect and use critical and creative thinking, skeptical inquiry, and the scientific approach when solving problems related to behavior and mental processes;
4. understand and apply psychological principles in many areas of life including personal, social and organizational;
5. be able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology;
6. demonstrate information competence and the ability to use technology for many purposes;
7. be able to communicate and collaborate effectively;
8. understand and apply knowledge of human diversity to better people's lives;
9. develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement;
10. pursue realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings that meet personal goals and societal needs.

## Program Requirements

CIP Code: 42.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	

GSD 101	Foundations of Learning (waived for transfers with 30+ hrs., not including AP and Dual Credit hours)	3
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Psychology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar.____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

### Major Requirements

Core Courses		
PSY 200	Introduction to Psychology	3
PSY 240	Scientific Literacy in Psychology	3
PSY 258	Career Development in Psychology	3
PSY 340W	Research Literacy in Psychology	3
PSY 399	Research Development Skills	3
or PSY 440	Applied Scientific Literacy in Psychology	
PSY 499	Senior Exit Course in Psychology	0

Choose from at least three hours from each of the following areas: 18

Biological Bases of Behavior: <sup>1</sup>		
PSY 311	Physiological Psychology	
PSY 315	Sensation and Perception	
PSY 315L	Sensation and Perception Lab	

Cognition/Learning:		
PSY 317 & 317L	Cognitive Psychology and Cognitive Psychology Lab	
PSY 322	Cognitive Development	
PSY 333	Comparative Psychology	

Developmental: <sup>2</sup>		
PSY 312	Infant and Child Development	
PSY 314	Adolescent and Adult Development	
PSY 316	Aging and Senescence	

Social Personality: <sup>3</sup>		
PSY 300	Social Psychology	
PSY 305	Psychology of Personality	
PSY 308	Abnormal Psychology	

Skills: <sup>4</sup>		
PSY 318	Introduction to School Psychology	
PSY 319	Psychology of Work	
PSY 405	Intro to Interviewing/Therapy	
PSY 406	Intro to Behavior Therapy	
PSY 327	ABA for Behavior Technicians	
PSY 490	Clinical Psychology	
PSY 590	Tests and Measurements	

Capstone:		
PSY 349	Applied Learning in Psychology	
PSY 400	Senior Seminar.____	
PSY 419	Research Development Skills II	
PSY 579	History and Systems Of Psychology	

**Concentrations**

Students may select one or more of the following Concentrations:<sup>5</sup>

Psychology (General)	
Art Therapy	
Substance Abuse	12
Developmental Disabilities/Autism Spectrum Disorders	
Forensic Psychology	
Child and Family Psychology	
Psychology of the Workplace	
Brain and Cognitive Sciences	
Psychiatric Rehabilitation	
<i>Free Electives</i>	
Choose from 32-39 hours of free electives	36-43
<b>Total Hours</b>	<b>120-127</b>

1

Students in the Substance Abuse or Brain and Cognitive Science Concentrations must select PSY 311 Physiological Psychology for this group.

2

Students in the Child and Family Psychology must select PSY 312 Infant and Child Development; students in the Psychology of the Workplace Concentration must select either PSY 314 Adolescent and Adult Development or PSY 316 Aging and Senescence; students in the Art Therapy Concentration must select PSY 312 Infant and Child Development.

3

Students in the Substance Abuse, Autism Spectrum, Forensic, or Workplace, and Art Therapy Concentrations must select PSY 308 Abnormal Psychology.

4

Students in the Substance Abuse Concentration must select PSY 490 Clinical Psychology; students in the Child and Family Concentration must select PSY 406 Intro to Behavior Therapy; students in the Workplace or Art Therapy Concentration must select PSY 405 Intro to Interviewing/Therapy.

5

Those who do not choose one will be placed in the General Concentration.

A minimum grade of "C" is required in all courses counted toward the major.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 305	Psychology of Personality	3
PSY 405	Intro to Interviewing/Therapy	3
PSY 406	Intro to Behavior Therapy	3
PSY 429	Psychological Perspectives on Substance Abuse	3
<b>Total Hours</b>		<b>12</b>

Students pursuing any of the Concentrations are strongly encouraged but not required to complete PSY 349 Applied Learning in Psychology in the Concentration area.

## Psychology, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
PSY 200	Introduction to Psychology	3
<i>Electives</i>		
Choose from 15 hours of PSY electives <sup>1</sup>		15
<b>Total Hours</b>		<b>18</b>

1

PSY 349 Applied Learning in Psychology, PSY 402 Independent Work in Psychology, and PSY 403 cannot be counted toward the minor.

A minimum grade of "C" is required of all courses counted toward the minor.

## Veterans Studies, Minor

The Veterans Studies (VTS) applied minor explores the unique identities, cultures, and experiences of military veterans. This first-of-its-kind program teaches veteran and non-veteran students to apply an interdisciplinary set of skills and perspectives in examining combat, veteran social groups, representations of veterans, and especially the psychological and physiological changes resulting from military service.

VTS acknowledges both the benefits of military service and the challenges faced by service members. The minor allows students to analyze the veterans' role in society and provides a form of cultural competency that complements major fields of study, enabling students to more effectively provide services to veterans in non-profit, government, healthcare, and other helping professions.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
<i>Core Courses</i>		
VTS 200	Intro to Veterans Studies	3
VTS 401	Veterans Studies Capstone Project	3
or VTS 500	Veteran Identity Theory	
VTS program-approved capstone in the student's major		
<i>Cultural Competency Electives</i>		
Choose six hours from the following:		6
ENG 386W	War & Peace in Lit Since 1900	
MSL 303	American Military History	
VTS 300	Veterans in Society	
VTS 349	Applied Learning for Veterans Studies	
VTS 350	Special Topics:___	
Other VTS program-approved course <sup>1</sup>		
<i>Interdisciplinary Electives</i>		
Choose from six hours of the following:		6
HLS 400	Evolution of the U.S. Intelligence Community	
MGT 300	Principles of Management	
MGT 301	Principles of Management (NB)	
PLS 375	Terrorism/ Counterterrorism	
POL 325	Global Security	

POL 357	American Political Thought
PSY 258	Career Development in Psychology
PSY 300	Social Psychology
PSY 405	Intro to Interviewing/Therapy
PSY 476	Psychology of Trauma
SOC 131	Introductory Sociology
SWK 210	Introduction to Social Work
SWK 310	Social Welfare Policy History
SWK 365	Crisis Intervention
Other VTS program-approved elective	

**Total Hours** 18

## Veterans Studies, University Certificate

The Veterans Studies (VTS) certificate explores the unique identities, cultures, and experiences of military veterans. This first-of-its-kind program teaches veteran and non-veteran students to apply an interdisciplinary set of skills and perspectives in examining combat, veteran social groups, and representations of veterans.

VTS acknowledges both the benefits of military service and the challenges faced by service members. The certificate allows students to analyze the veteran’s role in society, emphasizing the intersectionality of veteran identity, equipping students with a variety of skills and disciplinary perspectives through which to develop the cultural competency needed to understand and interact with veterans in a variety of personal and professional settings.

### Program Requirements

CIP Code: 30.0000

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
VTS 200	Intro to Veterans Studies	3
VTS 401	Veterans Studies Capstone Project (or program-approved capstone in the student’s major)	3
or VTS 500	Veteran Identity Theory	
<i>Cultural Competency Electives</i>		
Select six hours from the following:		6
ENG 386W	War & Peace in Lit Since 1900	
MSL 303	American Military History	
VTS 300	Veterans in Society	
VTS 349	Applied Learning for Veterans Studies	
VTS 350	Special Topics:___	
Other VTS-approved electives		
<i>Interdisciplinary Electives</i>		
Select twelve hours from the following:		12
HLS 400	Evolution of the U.S. Intelligence Community	
MGT 300	Principles of Management	
MGT 301	Principles of Management (NB)	
PLS 375	Terrorism/ Counterterrorism	
POL 325	Global Security	
POL 357	American Political Thought	

PSY 258	Career Development in Psychology
PSY 300	Social Psychology
PSY 405	Intro to Interviewing/Therapy
PSY 476	Psychology of Trauma
SOC 131	Introductory Sociology
SWK 210	Introduction to Social Work
SWK 310	Social Welfare Policy History
SWK 365	Crisis Intervention
Other VTS-approved electives	
<b>Total Hours</b>	<b>24</b>

## Department of Social Work Chair

Prof. Stephanie Saulnier  
(859) 622-1645  
Keith 204

### Faculty

G. Ashley; P. Black; A. Callahan; D. Higgins; N. Lavy-Joy; K. Martin; C. Reid; S. Saulnier; E. Stevenson; L. Squicciarini; K. Ward.

### Bachelor’s

- Bachelor of Social Work (B.S.W.) (p. 368)

### Minor

- Appalachian Studies, Minor (p. 367)
- Social Welfare, Minor (p. 369)
- Women and Gender Studies, Minor (p. 370)

### Certificate

- Appalachian Studies, Certificate (p. 367)
- Public Child Welfare Certification Program (p. 369)
- Women and Gender Studies, Certificate (p. 370)

## Courses

### Appalachian Studies

#### APP 200. Introduction to Appalachia. (3 Credits)

A. An introduction to the interdisciplinary study of the Appalachian region. Special emphasis on the region’s place in a national and global context, and on internal and external definitions of the region. Gen. Ed. VII and Element 5B and 6.

#### APP 340. Environmental Economics. (3 Credits)

A. Cross listed as ECO 340 and ENV 340. Prerequisite: ECO 230. Applications of basic economic analysis to a study of the environment and environmental problems. Major topics include benefit-cost analysis for environmental decision-making, the potential for market-based solutions to environmental problems, and the role and development of environmental policy. Credit will only be awarded for APP 340 or ECO 340 or ENV 340.

#### APP 350. Special Topics:\_\_\_ (3 Credits)

A. Exploration of particular topics not covered in the existing curriculum. May be retaken for a maximum of six hours provided the subject matter is different each time.

**APP 355. Rural Crime and Justice. (3 Credits)**

A. Cross-listed as CRJ 355. Prerequisite: APP 200 or CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Survey of rural crime and justice issues, crime trends, policing and control of rural crime with particular attention given to Kentucky and Appalachia. Credit will not be awarded for both CRJ 355 and APP 355.

**APP 360. Media Images of Appalachia. (3 Credits)**

Prerequisites: ENG 102, 105 (B), or HON 102; APP 200 recommended but not required. Explores representations of Appalachia in a variety of media including documentary and feature film, television, music, magazines, news media, advertising and marketing, and in the context of contemporary sources such as a social media. Credit will be awarded for only one of the following courses: APP 360, APP 363, SOC 363.

**APP 365. Appalachian Literature. (3 Credits)**

I. Cross listed as ENG 365. Prerequisite: ENG 102 or 105(B) or HON 102. Study of selected Appalachian artists, with emphasis on interdisciplinary, cultural, and aesthetic concerns raised in works by writers such as Arnow, Berry, and Still. Credit will not be awarded to students who have credit for: ENG 365, ENG 365W, or APP 365W. Gen. Ed. Element 3B and 6.

**APP 365W. Appalachian Literature. (3 Credits)**

(3) 1. Crosslisted as ENG 365W. Prerequisite: ENG 102 or 105(B) or HON 102. Writing-intensive study of selected Appalachian artists, with emphasis on interdisciplinary, cultural, and aesthetic concerns raised in works by writers such as Arnow, Berry, and Still. Credit will not be awarded to students who have credit for ENG 365, ENG 365W or APP 365. Gen. Ed. Element 3B and 6.

**APP 366. Social Change in Appalachia. (3 Credits)**

A. Cross listed as SOC 365. Completion of SOC 131 or SOC 235 is advised before taking APP 366. Analysis of patterns of social change and development in an important area of the Southern United States, Central and Southern Appalachia. Emphasis will be placed upon competing theoretical perspectives and the importance of historical research. Credit will not be awarded to students who have credit for SOC 365.

**APP 373. Politics of Development in Appalachia. (3 Credits)**

A. Cross listed as POL 373. Prerequisite: ENG 102, 105 (B), or HON 102. This course examines community and economic development in the Appalachian region with special emphasis on Kentucky. Focus will be on the political, economic and social aspects affecting development. Credit will not be awarded to students who have credit for POL 373. Gen. Ed. E-6.

**APP 375. Appalachian Religion. (3 Credits)**

Prerequisites: ENG 102, or ENG 105 (B), or HON 102; APP 200 recommended but not required. Examines the history and diversity of Appalachian religious traditions, practices, beliefs and symbol systems and how they have influenced social order, politics, community activism, health services, leadership development, education, and environmental stewardship throughout the region. Credit will not be awarded for only one of the following courses: APP 375, APP 370, SOC 370.

**APP 420. Appalachia in U.S. History. (3 Credits)**

A. Cross listed as HIS 420. Prerequisites: ENG 102, 105 (B), HON 102; three hours HIS or department approval. The relationship between Appalachia and the rest of the United States. Topics include the *yeoman* myth, coal industrialization, settlement houses, company towns, and the identification of the region with poverty. Credit will not be awarded to students who have credit for HIS 420.

**APP 430. Sustainability in Appalachia. (3 Credits)**

A. Cross listed as GEO 430. Prerequisites: GEO 100, 110, 210 or 220; ENG 102 or ENG 105(B) or HON 102, and MAT 105 or higher or STA 215 or 270, or departmental approval. Examination of Appalachia's ecological, social, and economic patterns, and the processes through which residents can ensure their social, economic and ecological sustainability in the future. Credit will not be awarded to students who have credit for GEO 430 or ENV 430.

**APP 460. Seminar in Appalachian Studies. (3 Credits)**

Prerequisite: 12 hours. Appalachian Studies or instructor approval. In-depth analysis of current social, political, economic or environmental issues in the Appalachian region through a directed research project or applied service-learning field experience. Capstone course for the Appalachian Studies minor.

**APP 490. Independent Study. (1-3 Credits)**

A. Prerequisite: Student must have the independent study form/proposal approved by the faculty member and Center director prior to enrollment. May be taken for a maximum of six hours provided the subject matter is different each time.

**APP 520. Providing Health Care Services in Appalachia. (3 Credits)**

A. Cross listed as OTS 520/720. Prerequisite: departmental approval. An analysis of the development and delivery of health care services in Appalachia. Examination of relevant current and historical factors which have an impact on the health of the Appalachian people. Credit will not be awarded to students who have credit for OTS 520/720.

**Social Work****SWK 210. Introduction to Social Work. (3 Credits)**

I, II. Introduces philosophy, values, ethics, and processes of the social work profession; emphasizes the bases of Generalist practice theory; areas of practice; social justice and the role of violence in society.

**SWK 225. Human Behavior/Social Environment. (3 Credits)**

I, II. Prerequisites: SOC 131 and PSY 200. Prerequisite or co-requisite: SWK 210. Bio- psycho-social perspective of human behavior and social interactions based on systems theory. Explores traditional and alternative paradigms of developmental life cycle and family interactions. Emphasis on developmental diversity in a multicultural society.

**SWK 310. Social Welfare Policy History. (3 Credits)**

I, II. Prerequisite: ENG 102, or ENG 105(B), or HON 102. History of social welfare policy, its role and relationship with other social institutions; structure and function of U.S. system compared to other national systems; inequitable distribution of resources, and its contribution to an oppressive environment. Credit will not be awarded to students who have credit for SWK 310W.

**SWK 310W. Social Welfare Policy History. (3 Credits)**

I, II. Prerequisites: ENG 102 or ENG 105 (B) or HON 102. History of social welfare policy; its role and relationship with other social institutions, structures and function of U.S. system compared to other national systems; inequitable distribution of resources; and its contribution to an oppressive environment. Credit will not be awarded to students who have credit for SWK 310.

**SWK 335. Human Behavior/ Social Environment II. (3 Credits)**

I, II. Prerequisites: SWK 210. Prerequisite or corequisite: SWK 225. Examination and application of theories of community, organizational and group behavior. Critical analysis of the social, economic and political forces and institutions that impact human behavior.

**SWK 340. Social Work Research Methods. (3 Credits)**

I, II. Prerequisite: SWK 310. Prerequisite or corequisite: SWK 390 and SOC 232. The course teaches application of both qualitative and quantitative research methods within the context of social work practice.

**SWK 344. Stress Management & Self Care. (3 Credits)**

(3) A. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. Introduction to the science of stress and stress management focusing on developing lifetime habits of wellness and self-care for the helping professions. Major focus on experiential, evidence-based stress management exercises. Fulfills University Wellness requirement.

**SWK 350. Social Work Practice I. (3 Credits)**

I, II. Prerequisite: Admission to the Social Work Program, SWK 225 and SWK 310. Prerequisite or Corequisite: SWK 335. Corequisite: SWK 354. Theoretical base for social work practice from a generalist perspective. Focuses on the social work process: problem identification; data collection and synthesis; assessment; planning and intervention; termination; and evaluation. Emphasis on multidimensional assessment and practice ethics.

**SWK 354. Social Work Practice Methods. (3 Credits)**

I, II. Corequisite: SWK 350. Focuses on interactional activities and exercises that foster the development of interviewing skills, data collection, contracting, synthesis, assessment, service contracting and use of relationship skills.

**SWK 355. Social Work Practice II. (3 Credits)**

I, II. Prerequisites: SWK 335, SWK 350, and SWK 354. Addresses the social work process with groups and families with a focus on assessments, intervention, implementation, and evaluation of practice strategies. Facilitation of psycho-educational groups to practice group work skills.

**SWK 358. Child Abuse and Neglect. (3 Credits)**

A. Prerequisite: Admission to the Public Child Welfare Certification Program (PCWCP) and departmental approval. Knowledge base for identification, risk determination and psycho-social assessment of child abuse, neglect and dependency situations. Explores service delivery, role of the court, and the impact of cultural and institutional violence. Required course for PCWCP.

**SWK 360. Social Work Practice III. (3 Credits)**

I, II. Prerequisite: SWK 335 and SWK 350. Prerequisite or corequisite: SWK 390. Social Work process and skills applied to assessment and intervention with networks, organizations, and communities. Emphasis on community research; program development and evaluation; grantsmanship; strategies to advance social justice and address institutional and cultural violence.

**SWK 365. Crisis Intervention. (3 Credits)**

(3) I, II. Prerequisite: ENG 102 or 105(B) or HON 102. This course will examine current theories pertaining to crisis intervention, assessment strategies, key public policy issues, and the treatment system. This course uses on-line discussion, presentations, and videos to facilitate learning.

**SWK 390. Field Experience in a Social Agency. (3 Credits)**

I, II. Prerequisite: SWK 350 and SWK 354 and overall GPA 2.5 or above. Co-requisite: Personal Liability Insurance. A total of 112 hours spread over the semester in an agency, or community program approved by Field Education Coordinator plus weekly seminar is required. Applications of practice theory and process. Application must be made through Field Education Coordinator the semester preceding placement. Social Work majors only.

**SWK 410. Social Welfare Policy Practice. (3 Credits)**

I, II. Prerequisites: SWK 310 or 310W. Dynamics of policy implementation at administrative, judicial, and legislative levels: policy analysis, formulation, modification, and evaluation; focus on policies that contribute to social injustices and policies that foster the creation, enhancement, or promotion of violence.

**SWK 440. Addictions. (3 Credits)**

I, II. Prerequisites: Junior or Senior standing. Open to all majors. This course will examine how to assess, intervene, and treat individuals, families, and groups with substance abuse and other addictions. The course will examine addictions from a strengths perspective.

**SWK 450. Child Abuse Interventions. (3 Credits)**

A. Prerequisite: SWK 358 and admission to Public Child Welfare Certification Program (PCWCP). Development of assessment, intervention, and prevention skills in child abuse and neglect. Focus is on public agency involvement. Required course for PCWCP.

**SWK 455. Selected Topics in Social Work. (3 Credits)**

A. Prerequisite: departmental approval. Recommended Junior or Senior standing. Open to all majors. Course content will be determined by interests and developments in the profession. May be retaken to a maximum of nine hours.

**SWK 456. Children's Services. (3 Credits)**

A. Prerequisite: instructor approval. Critical appraisal of societal values of priorities underlying services to children. Examines range of services and skills used in social work practice with children; understanding psycho-social needs of children.

**SWK 457. Assessing Needs of Older Adults. (3 Credits)**

A. Examines societal values relating to the elderly; psycho-social needs of the elderly; community-based and institutional services; and dynamics of working with the elderly and their families. Open to all majors.

**SWK 490. Social Work Practicum. (12 Credits)**

I, II. Prerequisites: Overall GPA of 2.5 and completion of all other major requirements with a minimum grade of "C." Corequisite: Personal Liability Insurance. Supervised practice in a social agency approved by Field Education Coordinator. A total of 384 hours over the course of the semester plus a weekly seminar is required. Application must be made through Field Education Coordinator the semester preceding placement. Social Work majors only.

**SWK 495. Independent Study in Social Work. (1-6 Credits)**

(1-6) A. Student must consult with the faculty supervisor and have the independent study proposal form approved by faculty supervisor, program director, and departmental chair prior to enrollment. May be retaken to a maximum of six hours.

**SWK 499. Directed Research in Social Work. (3 Credits)**

A. Prerequisite: Departmental approval. A directed research experience for social work majors that integrates a research experience with the students' professional development and the production of a substantive deliverable product (e.g., poster or conference presentation).

**SWK 561. Alcohol and Drug Assessment. (3 Credits)**

A. Prerequisite: Junior or senior standing. Provides clinical and scientific knowledge about the history and range of consequences associated with alcohol and drug addiction. Credit will not be awarded for both SWK 561 and SWK 761.

**SWK 562. Alcohol and Drug Treatment. (3 Credits)**

A. Prerequisite: Junior or senior standing. Open to all majors. Provides clinical and scientific knowledge about the treatment of alcohol and drug addiction. Credit will not be awarded for both SWK 562 and SWK 762.

## Women and Gender Studies

### WGS 132. Introduction to the Family. (3 Credits)

A. Cross listed as CDF 132. Ecological and systems approach applied to public and private family concepts; historical changes and current status; relationships among individuals, families, consumers, and communities; status of women, men, children and the elderly; public policy related to changes in the family. Credit will not be awarded to students who have credit for CDF 132.

### WGS 201. Intro to Women & Gender Studies. (3 Credits)

A. Introduction to interdisciplinary field of women's, gender, and sexuality studies and feminist scholarship. Provides overview of the intersectionality of gendered experiences, images, and issues from a wide variety of disciplinary perspectives. Gen. Ed. Element 6.

### WGS 205. Sexualities and Social Issues. (3 Credits)

A. (3). Cross-listed as SOC 205. An examination of the diversity of sexuality and related social issues in the United States and Globally. Topics include culture, history, law, mass media, politics, and religion. Credit will not be awarded to students who have credit for SOC 205 or WGS 302. Gen. Ed. E-6 [GE].

### WGS 300. Topics in Women and Gender Studies:\_\_\_\_. (3 Credits)

A. Intensive study of selected topics related to recognizing and validating the experience of women and their contributions to society. May be retaken for a maximum of six hours provided the topics are different. Credit will not be awarded to students who have completed WGS 302, and Special Topics: Gender, Sexuality & Homophobia.

### WGS 303. Women in American History. (3 Credits)

A. Cross listed as HIS 303. Prerequisite: three hours HIS or departmental approval. Social, economic, and cultural role of women in America. Women's work; social position and status; women in reform movements; feminism and the suffrage movements; the new feminism. Credit will not be awarded to students who have credit for HIS 303.

### WGS 304. Gender Perspectives on Contemporary Terrorism. (3 Credits)

A. An interdisciplinary look at contemporary terrorism and U.S. policy. Analyzing the perception of women in the U.S. and elsewhere around the world, with particular focus on American, Iraqi, Afghan, Palestinian, and Muslim women. Credit will not be awarded to students who have credit for WGS 300 Special Topics; Gender Perspectives on Contemporary Terrorism.

### WGS 305. Domestic Violence. (3 Credits)

A. Cross listed as CRJ 305. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or WGS 201 or departmental approval. Examination of the theoretical and empirical literature on violence against women, children, and elders. Addresses such issues as physical and sexual abuse of children, courtship violence, domestic violence, marital rape, and elder abuse. Credit will not be awarded to students who have credit for CRJ 305.

### WGS 306. Masculinity & Popular Culture. (3 Credits)

(3) A. Exploration of images and ideals of men and masculinity as they have evolved in popular culture due to race, class, culture, age, and sexuality. Prerequisites: ENG 102 or 105(B) or HON 102. Credit will not be awarded to students who have credit for WGS300 Special Topics: Masculinity & Popular Culture.

### WGS 308. Trans Studies. (3 Credits)

(3) A. Prerequisites: ENG102 or 105(B) or HON102. Introduction to emerging field of Trans Studies through exploration of trans history, identities, experiences, politics, and culture in the contemporary U.S. Credit will not be awarded to students who have credit for WGS 300 Special Topics: Intersexuality & Transexuality.

### WGS 309. Women and Trauma. (3 Credits)

(3) Prerequisite: ENG 102 or 105 (B) or HON 102. A study of contemporary psychological trauma theories with analysis of historical and contemporary representations of trauma in film, fiction, poetry, and American culture. Credit will not be awarded for both WGS 309 and WGS 300: Women and Trauma.

### WGS 310. Historical Costume & Soc Order. (3 Credits)

A. Cross listed as ADM 310. History of dress from ancient Egypt through the 20th century. Factors which influence the style of dress are studied and relationship between costume of the past and current modes. Credit will not be awarded to students who have credit for ADM 310.

### WGS 311. Biology of Sex. (3 Credits)

I, II. Prerequisites: ENG 102 or ENG 102R, 105(B) or HON 102 or departmental approval. Cross-listed as BIO 305. Fundamental principles related to human sexual reproduction. Structure, function, control, and coordination of the human reproductive system. Problems associated with fertility, sexuality, birth control. STD's and human population will be discussed. May not be used to satisfy area, major or minor requirements for Biology majors. Credit will not be awarded for both BIO 305 and WGS 311.

### WGS 331. Marriage and Intimate Relationships. (3 Credits)

A. Cross listed as CDF 331. The process within and types of intimate relationships in contemporary times. Topics include singlehood, partner selection, marriage, divorce, remarriage, longterm enduring marriage, and factors which affect the success of intimate relationships. Credit will not be awarded to students who have credit for CDF 331.

### WGS 344. Violence Against Women. (3 Credits)

Cross listed as CRJ 344. Prerequisites: Sophmore standing. Explores the social character of violence against women. A variety of theories are utilized to examine this phenomenon at the individual, organizational and societal levels. Credit will not be awarded to students who have credit for CRJ 344, or CRJ 423 Topical Seminar: Violence Against Women or WGS 300 Special Topics: Violence Against Women.

### WGS 349. Applied Learning in Women and Gender Studies. (0.5-8 Credits)

A. Prerequisite: approval of Director of Women and Gender Studies. Work in job placements related to Women's Studies. One to eight hours credit. Minimum of 80 hours employment required for semester hour credit.

### WGS 349A. Cooperative Study: Women and Gender Studies. (0.5-8 Credits)

A. Prerequisite: approval of Director of Women and Gender Studies. Work in job placements related to Women and Gender Studies. One to eight hours credit. Minimum of 80 hours employment required for semester hour credit.

### WGS 349B. Cooperative Study: Women and Gender Studies. (0.5-8 Credits)

Formerly WMS 349B. Prerequisite: approval of Director of Women and Gender Studies. Work in job placements related to Women and Gender Studies. One to eight hours credit. Minimum of 80 hours employment required for semester hour credit.

### WGS 349C. Cooperative Study: Women and Gender Studies. (0.5-8 Credits)

A. Formerly WMS 349C. Prerequisite: approval of Director of Women and Gender Studies. Work in job placements related to Women and Gender. One to eight hours credit. Minimum of 80 hours employment required for semester hour credit.

**WGS 364. Women's Literature. (3 Credits)**

A. Cross listed as ENG 364. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of selected literature by women writers from varying cultures, genres, and periods. Credit will not be awarded to students who have credit for ENG 364. Gen. Ed Element 6.

**WGS 365. Women, Gender, and Religion. (3 Credits)**

(3) A. Cross-listed as REL 365. Prerequisite: ENG 102 or 105(B) or HON 102. A study of the intersections between feminism and the social impact of religion throughout the world with particular emphasis on the relationship between religion and gender, sexuality, and body politics. Credit will not be awarded for both WGS 365 and REL 365.

**WGS 366. Queer Theory and Literatures. (3 Credits)**

A. Cross-listed as ENG 366. Prerequisite: ENG 102 or 105 or HON 102. Examination of trends in Queer Theory; study of major contributors to the field as Foucault, Butler, and Sedgwick; application of theoretical models to literary and cinematic texts. Credit will not be awarded to students who have credit for ENG 366. Gen. Ed. E-6.

**WGS 378. Black Women in History. (3 Credits)**

A. Cross listed as AFA 378. Examines the lives of African-American women from slavery to the present with emphasis on the impact of race, gender, and class issues on their multi-faceted lives as women in America. Credit will not be awarded to students who have credit for AFA 378.

**WGS 380. Gender and Work in the U.S.. (3 Credits)**

Cross-listed as OTS 380. Prerequisite: ENG 102 or 105(B) or HON 102 or departmental approval. A survey of occupational science and sociological constructs related to gendered work. Includes content on family-work linkages, gendered organizations, and public policies in the workplace. Credit will not be awarded to students who have credit for OTS 380, OTS 480, or WGS 480.

**WGS 399. Gender and Society. (3 Credits)**

Cross-listed as SOC 399. Prerequisites: SOC 131 or SOC 235; ENG 102 or ENG 102R or ENG 105(B) or HON 102. Emphasis on the relationship between the social construction of gender and the experiences of people of all genders in society. Consideration of the cultural and historical construction of gender and identity. Gen. Ed. E-6 [GE]. Credit will not be awarded for both WGS 399 and SOC 399.

**WGS 400. Feminist Theory and Practice. (3 Credits)**

A. Cross-listed as SJS 400. Prerequisite: WGS 201 or SJS 101 or departmental approval. Examines intersectional development of feminist theory and its implications for continuing feminist scholarship. Includes related research project in students major. Usually offered in the fall semester. Credit will not be awarded for both WGS 400 and SJS 400.

**WGS 420. The Psychology of Women and Gender. (3 Credits)**

A. Cross listed as PSY 420. Prerequisite: PSY 240, PSY 300, and completion of all academic readiness indicators in reading; ENG 102 or 102R or ENG 105 (B) or HON 102, or departmental approval. Introduction to current and historical theories and research into the psychology of women, including gender differences and similarities. Credit will not be awarded to students who have credit for PSY 420.

**WGS 446. The Politics of Sex. (3 Credits)**

A. Cross listed as POL 446. The effect of sex on social and political institutions, public policies, and court rulings. Issues may include pornography, sexual and gender discrimination, domestic violence, reproductive rights and gay rights. Credit will not be awarded to students who have credit for POL 446. Gen. Ed. VIII.

**WGS 451. Principles and Politics of Human Rights. (3 Credits)**

A. Cross listed as POL 451. Examines politics of human rights in theory and in practice. Credit will not be awarded to students who have credit for POL 451.

**WGS 495. Independent Study: Women and Gender Studies. (1-5 Credits)**

A. Prerequisite: approval of Director of Women and Gender Studies. Study of a special topic in Women and Gender Studies. Proposal must be approved by faculty supervisor and Women and Gender Studies Director prior to enrolling. May be retaken to a maximum of ten hours.

**WGS 591. Women's Health. (3 Credits)**

A. Cross listed as HEA 591/791. Analysis of the major health problems of contemporary women with a special emphasis on health promotion, disease prevention, and consumer health concerns. Credit will not be awarded to students who have credit for HEA 591/791.

**WGS 592. Human Sexuality. (3 Credits)**

A. Cross listed as HEA 592/792. Study of the biological, social, and psychological aspects of human sexuality. Directed primarily toward those individuals in situations which require them to assist others in understanding the broad impact of one's sexuality. Emphasis is placed upon student development of logical and reasoned justifications for their own value system. Credit will not be awarded to students who have credit for HEA 592/792.

## Appalachian Studies, Certificate Program Requirements

The certificate in Appalachian Studies requires a minimum of 12 credit hours as indicated below.

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
APP 200	Introduction to Appalachia (also fulfills General Education 5B or 6)	3
<i>Electives</i>		
Choose from nine hours of the following:		9
APP 340	Environmental Economics	
APP 350	Special Topics:___	
APP 355	Rural Crime and Justice	
APP 360	Media Images of Appalachia	
APP 365	Appalachian Literature	
APP 366	Social Change in Appalachia	
APP 373	Politics of Development in Appalachia	
APP 375	Appalachian Religion	
APP 420	Appalachia in U.S. History	
APP 430	Sustainability in Appalachia	
Other Appalachia-specific courses from other programs with departmental approval		
<b>Total Hours</b>		<b>12</b>

**Note:** Average GPA of courses applied to the minor or certificate must be 2.25 or better.

## Appalachian Studies, Minor

Appalachian Studies is an interdisciplinary program that brings together courses taught by a diverse group of faculty from the Arts, Environmental

Sciences, Health Sciences, Humanities, and Social Sciences. The program awards an undergraduate minor and a certificate in Appalachian Studies.

Students may select a group of courses tailored to their personal and academic goals in consultation with the Director.

## Program Requirements

The minor in Appalachian Studies requires a minimum of 18 credit hours as indicated below:

Code	Title	Hours
<b>Required Courses</b>		
<i>Core Courses</i>		
APP 200	Introduction to Appalachia (also fulfills General Education 5B or 6)	3
<i>Electives</i>		
Choose from 15 hours of the following:		15
APP 340	Environmental Economics	
APP 350	Special Topics:___	
APP 355	Rural Crime and Justice	
APP 360	Media Images of Appalachia	
APP 365	Appalachian Literature	
APP 366	Social Change in Appalachia	
APP 373	Politics of Development in Appalachia	
APP 375	Appalachian Religion	
APP 420	Appalachia in U.S. History	
APP 430	Sustainability in Appalachia	
Other Appalachia-specific courses from other programs with departmental approval		
<b>Total Hours</b>		<b>18</b>

## Bachelor of Social Work (B.S.W.)

The Social Work Program prepares students for beginning generalist social work practice. The primary purpose of the Social Work profession is to enhance human well being. Social workers help meet the basic human needs of all people and empower those who are vulnerable, oppressed, or living in poverty. Social workers help identify and manage the environmental forces that create, contribute to, and address problems in living. Social workers are an integral part of most non-profit agencies and also offer their services and knowledge in private practice. The Social Work Program has been continuously accredited by the Council on Social Work Education since 1977.

## Mission and Goals

The Eastern Kentucky University Social Work Program provides a student-centered collaborative and dynamic environment that prepares students for competent and ethical social work practice in a diverse world. This is accomplished through self-reflection, rigorous academics, knowledge based on scientific inquiry and experiential learning in a safe and nurturing environment. We strive to graduate students who understand the complexities of the relationship between people and their environments, value human rights, and believe in the dignity and worth of all human beings. Completion of EKU's generalist Social Work degree will provide the knowledge, values and skills to become practitioners who can think critically and creatively. Our mission is to graduate ethical leaders who advocate for social and economic justice in rural, urban and

global communities, with an emphasis on EKU's identified service region. Program goals are to

1. provide a fluid curriculum, grounded in a liberal arts perspective that prepares students for competent and effective entry-level generalist professional social work practice with individuals, families, groups, organizations, and communities through mastery of the knowledge, values, and skills that inform the ten core competencies;
2. integrate into the program the values, knowledge, and skills of the social work profession and to socialize students into the profession through self-assessment and self-awareness;
3. prepare students to deliver ethical social work practice through the development of critical thinking to guide professional judgments and practice; and
4. prepare students for advocacy and service to diverse populations-at-risk and to advance economic and social justice.

## Admission and Progression

Any student who is accepted by the University Admissions Office and declares his/her major as Social Work will be classified as a pre-Social Work major. Admission to pre-Social Work does not guarantee admission to the Professional Social Work Program. Admission to the program is required for progression in the major beginning with SWK 350 Social Work Practice I and SWK 354 Social Work Practice Methods. To be admitted students must have earned at least 32 hours of college credit, meet the minimum program GPA requirement of 2.50, complete SWK 210 Introduction to Social Work and other supporting course work with a minimum grade of "C," and successfully complete application procedures. Students choosing to double-major must declare Social Work as the first major. For admission requirements and procedures contact the Social Work Program office, (859) 622-1645.

## Program Requirements

CIP Code: 44.0701

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hours)	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Social work majors will fulfill ACCT with the following. (Credit hours may be incorporated into major requirements below.)		
SWK 390	Field Experience in a Social Agency	
	or SWK 490 Social Work Practicum	
<b>Major Requirements</b>		
<i>Core Courses</i>		
SWK 210	Introduction to Social Work	3
SWK 225	Human Behavior/Social Environment	3
SWK 310	Social Welfare Policy History	3
SWK 335	Human Behavior/ Social Environment II	3
SWK 340	Social Work Research Methods	3
SWK 350	Social Work Practice I	3
SWK 354	Social Work Practice Methods	3
SWK 355	Social Work Practice II	3
SWK 360	Social Work Practice III	3
SWK 390	Field Experience in a Social Agency	3
SWK 410	Social Welfare Policy Practice	3
SWK 490	Social Work Practicum	12
Choose from six hours of the following:		6
SWK 344	Stress Management & Self Care	
SWK 365	Crisis Intervention	
SWK 440	Addictions	
SWK 455	Selected Topics in Social Work	
SWK 457	Assessing Needs of Older Adults	
<i>Supporting Course Requirements</i>		
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
	or PSY 200W Introduction to Psychology: Writing Intensive	
SOC 131	Introductory Sociology	3
SOC 232	Social Statistics	3
Choose from one of the following:		
SOC 400	Race and Ethnicity	
SOC 399	Gender and Society (Element 6) <sup>G</sup>	
<i>Free Electives</i>		
Choose from 26 hours of free electives		26
To broaden their experience and knowledge, students are encouraged to complete their programs with electives selected from: anthropology (ANT), child development (CSD), economics (ECO), health (EHS, CHS, HEA, NFA), foreign language (FLH), law enforcement (CRJ, PLS), political science (POL), psychology (PSY), recreation (REC), sociology (SOC), special education (SED), communications (CMS, COM), and Social Work (SWK)		
<b>Total Hours</b>		<b>120</b>

## G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Public Child Welfare Certification Program

The Public Child Welfare certification by the Commonwealth of Kentucky requires an application and interview process, practicum experiences in public welfare agencies, participation in required training curricula, maintenance of a 3.0 GPA in social work courses, an institutional GPA of 2.5, and post graduation work commitment.

See the PCWCP Coordinator in the Social Work Program for more complete information on the application and requirements for the Public Child Welfare Certification Program.

## Program Requirements

See Bachelor of Social Work (B.S.W.) (p. 368)

In addition to the B.S.W. degree requirements, students must complete SWK 358 Child Abuse and Neglect and SWK 450 Child Abuse Interventions.

## Social Welfare, Minor Program Requirements

A student may minor in Social Welfare by completing the following courses:

Code	Title	Hours
<b>Required Courses</b>		
POL 101	Introduction to American Government	3
SWK 210	Introduction to Social Work	3
SWK 310	Social Welfare Policy History	3
SWK 410	Social Welfare Policy Practice	3
Choose from six hours of the following:		6
POL 341	The U.S. Congress	
POL 370	Introduction to Public Administration	
POL 371		
SWK 344	Stress Management & Self Care	
SWK 365	Crisis Intervention	
SWK 440	Addictions	
SWK 455	Selected Topics in Social Work	
SWK 456	Children's Services	
SWK 457	Assessing Needs of Older Adults	
Approved Social Work elective		
SOC 131	Introductory Sociology	
SOC 313		
SOC 340		
SOC 353		
SOC 365	Social Change in Appalachia	
SOC 375	Sociology of Deviance	
ECO 130	Contemporary Economic Problems	
ECO 231	Fundamentals of Macroeconomics	

CRJ 305 Domestic Violence

WGS 305 Domestic Violence

Related elective as approved by Social Work advisor

**Total Hours** 18

## Women and Gender Studies, Certificate

### Program Requirements

A student may complete an interdisciplinary Women and Gender Studies certificate by taking 12 hours as indicated below:

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
WGS 201	Intro to Women & Gender Studies	3
WGS 400	Feminist Theory and Practice	3
<i>Electives</i>		
Choose from six hours of the following:		6
WGS 132	Introduction to the Family	
WGS 205	Sexualities and Social Issues	
WGS 300	Topics in Women and Gender Studies:____	
WGS 303	Women in American History	
WGS 304	Gender Perspectives on Contemporary Terrorism	
WGS 305	Domestic Violence	
WGS 306	Masculinity & Popular Culture	
WGS 308	Trans Studies	
WGS 309	Women and Trauma	
WGS 311	Biology of Sex	
WGS 331	Marriage and Intimate Relationships	
WGS 344	Violence Against Women	
WGS 349	Applied Learning in Women and Gender Studies	
WGS 364	Women's Literature	
WGS 365	Women, Gender, and Religion	
WGS 366	Queer Theory and Literatures	
WGS 378	Black Women in History	
WGS 380	Gender and Work in the U.S.	
WGS 399	Gender and Society	
WGS 420	The Psychology of Women and Gender	
WGS 446	The Politics of Sex	
WGS 451	Principles and Politics of Human Rights	
WGS 495	Independent Study: Women and Gender Studies	
WGS 591	Women's Health	
WGS 592	Human Sexuality	
WGS 593		
Gender- or intersectionality-specific courses from other programs (upon WGS approval)		
<b>Total Hours</b>		<b>12</b>

## Women and Gender Studies, Minor

Women and Gender Studies (WGS) is a multidisciplinary program offering both a minor and a certificate. WGS acquaints students with

the growing research on women, gender, and sexuality studies by addressing the intersections of gender, race, class, sexualities, and abilities and by promoting active learning and social engagement. By analyzing competing perspectives and integrating knowledge across traditional academic boundaries, students learn to identify and examine cultural assumptions and biases and to recognize their consequences on individual, social, and cultural levels.

### Program Requirements

A student may complete an interdisciplinary Women and Gender Studies minor by taking 18 hours as indicated below.

Code	Title	Hours
<b>Required Courses</b>		
<i>Core Courses</i>		
WGS 201	Intro to Women & Gender Studies	3
WGS 400	Feminist Theory and Practice	3
<i>Electives</i>		
Choose from twelve hours of the following:		12
WGS 132	Introduction to the Family	
WGS 205	Sexualities and Social Issues	
WGS 300	Topics in Women and Gender Studies:____	
WGS 303	Women in American History	
WGS 304	Gender Perspectives on Contemporary Terrorism	
WGS 305	Domestic Violence	
WGS 306	Masculinity & Popular Culture	
WGS 308	Trans Studies	
WGS 309	Women and Trauma	
WGS 311	Biology of Sex	
WGS 331	Marriage and Intimate Relationships	
WGS 344	Violence Against Women	
WGS 349	Applied Learning in Women and Gender Studies	
WGS 364	Women's Literature	
WGS 365	Women, Gender, and Religion	
WGS 366	Queer Theory and Literatures	
WGS 378	Black Women in History	
WGS 380	Gender and Work in the U.S.	
WGS 399	Gender and Society	
WGS 420	The Psychology of Women and Gender	
WGS 446	The Politics of Sex	
WGS 451	Principles and Politics of Human Rights	
WGS 495	Independent Study: Women and Gender Studies	
WGS 591	Women's Health	
WGS 592	Human Sexuality	
WGS 593		
Gender- or intersectionality-specific courses from other programs with departmental approval		
<b>Total Hours</b>		<b>18</b>

**Note:** Average GPA of courses applied to the minor must be 2.25 or better.

# The Institute for Creative and Collaborative Arts: Art, Communication, Music, and Design

- School of Art and Design (p. 371)
- School of Communication (p. 382)
- School of Music (p. 395)

## School of Art and Design

### Executive Director

Prof. Ida Kumoji-Ankrah  
(859) 622-1629  
Campbell 309

### Faculty

D. Afsah-Mohallateh, B. Cirgin, H. Goodman, I. Kumoji-Ankrah, S. McCarthy, R. Moser, I. Powell, N. Slijepcevic, A. Strasik, I. Szekely, F. Szorad, M. Tortorici, and M. Vandenberg

## Bachelor of Fine Arts

The Baccalaureate of Fine Arts (B.F.A.) degree prepares students for professional careers as artists, designers and art educators. Upon completion of a BFA degree, students will have gained a specialized knowledge of a variety of media and techniques, the ability to apply elements and principles of art and design, an awareness of the influence of perception and observation, and the ability to communicate ideas effectively and expressively. Students in the BFA degree program will have opportunities for in-depth study of art education practices, and various artistic or commercial media to advance their studio proficiency and professional development. Students will also apply critical and creative thinking through research, analysis, and writing to demonstrate an awareness of historical and contemporary concepts, theories, and styles across global cultures and time periods. Students will engage with professional practices and portfolio development.

## BFA Progression Requirements

Students in the BFA program will be required to submit a portfolio to the faculty in their last semester of their sophomore year for assessment review. Portfolios will include examples of drawing and 2D and 3D works completed at EKU in a variety of courses. Students will refer to [www.art.eku.edu](http://www.art.eku.edu) (<http://www.art.eku.edu>) for specific portfolio requirements and portfolio development instructions. Students wishing to pursue the BFA degree must maintain a 2.75 GPA and earn a grade of "C" or higher in all courses within the School of Art and Design. If the student's GPA falls below a 2.75, the student may pursue a Bachelor of Science in Studio Art.

## BFA Art Education Concentration

Teacher Education Majors in Art must meet all requirements for Admission to the Teacher Education Program as well as the prerequisites for Admission to Student Teaching (2.75 GPA) and must earn a grade of "C" or higher in all courses within the Department of Art and Design. These are outlined in the College of Education section under Teacher Admission and Clinical Placement. <http://Tes.eku.edu> (<http://tes.eku.edu/>). To be recommended for licensure/certification, all candidates seeking initial teacher certification, regardless of the college

in which they are enrolled, must meet the requirements for admission to professional education, complete an approved teaching program, and pass the required PRAXIS II tests, PLT exam or Kentucky test as established by the Education Professional Standards Board.

## Bachelor's

- Art/Design Studio, Bachelor of Fine Arts with a Concentration in Graphic Design (B.F.A.) (p. 376)
- Art/Design Studio, Bachelor of Fine Arts with a Concentration in Studio Arts (B.F.A.) (p. 378)
- Art/Design Studio, Bachelor of Fine Arts with a Concentration in Teacher Education (B.F.A.) (p. 379)
- Art/Design Studio, Bachelor of Science (B.S.) (p. 380)

## Certificate

- Applied Creative Thinking, Certificate (p. 376)

## Minor

- Art History, Minor (p. 376)
- Studio Art, Minor (p. 382)

## Courses

### Art

#### ART 100. Drawing I. (3 Credits)

I, II, A. Introduction to basic principles and techniques of drawing, emphasizing perceptual skills and the use of value and line.

#### ART 152. Design, Two-Dimensional. (3 Credits)

I, II. Introduction to the elements and principles of design as they apply to the two dimensional surface.

#### ART 153. Design, Three-Dimensional. (3 Credits)

I, II. Introduction to the methods, materials, and concepts related to the control of space.

#### ART 154. Digital Media. (3 Credits)

A. Introduction to the practice of digital media, including raster and vector graphics, 3D modeling, and time-based media relevant to contemporary art and design.

#### ART 164. Concepts of Art and Design. (3 Credits)

I II. An introduction for Art & Design majors, providing an understanding of why art is made, how it is evaluated, and the ways in which it relates to society. Includes experience in written and oral analysis of art and design work in terms of media, composition and function.

#### ART 200. Art Appreciation: Orientation. (3 Credits)

I, II. Introduction to the visual arts and their purposes, emphasis on ways and means available to the artist. Not open to art majors or minors. Gen. Ed. Element 3A.

#### ART 210. Painting I. (3 Credits)

A. Prerequisites: ART 100, 152. Introduction to painting, emphasizing basic painting techniques and concepts, perceptual skills, and the use of color. Credit will not be awarded for both ART 210 and ART 216.

**ART 216. Painting for Non-Majors. (3 Credits)**

A. Pre-requisite: ENG 101 or departmental approval. An introduction to the craft and art of painting for non-majors, providing fundamental experiences with materials, color, mixing, paint application, directed toward both aesthetic and abstract problem-solving in the making of paintings. Credit will not be awarded to students who have credit for ART 210.

**ART 220. Sculpture Survey. (3 Credits)**

I, II. Prerequisites: ART 100, 153. Provides an introduction to basic sculpture problems, approaches, and techniques. Course problems are set in additive, substitutive, and subtractive processes.

**ART 230. Printmaking I. (3 Credits)**

A. Prerequisites: ART 100, 152. Introduction to basic concepts and techniques of printmaking. Credit will not be awarded for both ART 230 and ART 236.

**ART 236. Printmaking for Non- Art Majors. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or Departmental approval. A course emphasizing visual literacy, creative exploration, and personal expression, through printmaking. Providing fundamental experiences and expose each student to the wide variety of Printmaking, and vocabulary associated with all these techniques. Credit earned may eventually be applied to a major in Art with approval of the Department Credit will not be awarded for both ART 230 and ART 236.

**ART 240. Jewelry and Metalsmithing I. (3 Credits)**

A. Prerequisites: ART 100, 153. Provides an introduction to metal as an expressive media and acquaints students with various materials, processes and tools associated with the art form. Students explore sawing, embossing, soldering, cold-joining, basic forming, patination and simple stone setting. Credit will not be awarded for both ART 240 and ART 246.

**ART 246. Jewelry and Metal for Non-Majors. (3 Credits)**

A. Pre-requisite: ENG 101 or departmental approval. An introduction to the expressive art of jewelry and metals for non-art majors. Students execute creative projects through the exploration of various materials, techniques, and tool associated with the art form. Credit will not be awarded to students who have credit for ART 240.

**ART 280. Photo, Black and White Film. (3 Credits)**

I, II. Prerequisites: ENG 101 or ENG 101R or ART 152, or Departmental Approval. Fully Manual Camera Required. Introduction to basic manual film camera operation, film and darkroom print processing, and lighting techniques, and the principles and aesthetics of black and white photography.

**ART 290. Ceramics- Hand Building Methods. (3 Credits)**

A. Prerequisite: ART 100, ART 153. An introduction to ceramics with investigation through multiple hand-building techniques. Students will be introduced to the ceramic material studio process including clay and glaze mixing, high and low temperature firings, and studio safety procedures. Credit will not be awarded for both ART 290 and ART 376.

**ART 300. Drawing Media. (3 Credits)**

A. Prerequisite: ART 100 or ENG 101 or ENG 101R or Departmental approval. Investigation of various media for drawing, emphasizing experimentation and the development of technical skills in each.

**ART 301. Figure Drawing. (3 Credits)**

A. Prerequisite: ART 100 or ENG 101 or ENG 101R or Departmental approval.. A drawing course aimed at developing an increased understanding of the human figure and its possibilities as subject matter of art.

**ART 312. Painting II. (3 Credits)**

A. Prerequisite: ART 210 or 216 or departmental approval. Continuation of Painting emphasizing further development of skills and conceptual abilities as they relate to image-making.

**ART 313. Painting III. (3 Credits)**

A. Prerequisite: ART 210 or 216 or 312. Intermediate course in painting. Course builds on previous painting courses, providing opportunity to explore contemporary and traditional techniques, media, and subject matter.

**ART 314. Painting IV. (3 Credits)**

A. Prerequisite: ART 312 or 313, Major GPA 2.75 or above. Intermediate course in painting. Course builds on previous painting courses, providing opportunity to further explore contemporary and traditional techniques, media, and subject matter. Maximum repeatable hours: 6.

**ART 321. Sculpture Survey II. (3 Credits)**

I, II. Prerequisite: ART 220. Continuation of sculpture sequence, with basic sculptural problems set in foundry, constructive and mixed-media processes.

**ART 322. Intermediate Sculpture I. (3 Credits)**

I, II. Prerequisite: ART 321. Provides an in-depth exploration of sculptural problems at the intermediate level, developed through projects designed to fit personal interests in foundry processes.

**ART 323. Intermediate Sculpture II. (3 Credits)**

A. Prerequisite: ART 321. Provides an in-depth exploration of sculptural problems at the intermediate level, developed through projects designed to fit personal interests in figurative sculpture.

**ART 334. Traditional Printmaking. (3 Credits)**

A. Prerequisite: ART 230 or ART 236 or Departmental approval. Advanced study in printmaking as an art medium and provides opportunity for creative exploration. Research in traditional printmaking Etching, Serigraphy, Relief, Paper making and Book Arts.

**ART 335. Print Media. (3 Credits)**

A. Prerequisite: ART 230 or DES 250 or DES 256 or Departmental approval. Presentation of Print Media technology topics. Emphasis placed on exploration of media. Credit will not be award to students who have credit for ART Special Topics: Workshop in Printmaking Technology and Aesthetics.

**ART 336. Contemporary Printmaking. (3 Credits)**

A. Prerequisites: ART 230 or ART 236, Major GPA 2.75, or departmental approval. Advanced study in contemporary printmaking as an art medium with opportunity for creative exploration. Research in contemporary printmaking techniques related technologies. Maximum repeatable hours: 6, B.S. Art/Design Studio students may count a maximum of 3 credits toward major requirements. B.F.A. students may count a maximum of 6 credits toward major requirements.

**ART 341. Jewelry and Metalsmithing II. (3 Credits)**

A. Prerequisite: ART 240 or 246. An extension of the introductory course. Advanced study develops students understanding of metal as an art medium and provides opportunity for personal expression. Students explore raising, sinking, forging, casting, etching, enameling and advanced fabrication.

**ART 343. Jewelry and Metalsmithing III. (3 Credits)**

A. Prerequisite: ART 341. An advanced course emphasizing continued creative exploration and personal expression within jewelry and metalsmithing. Students explore raising, sinking, forging, casting, etching, enameling and advanced fabrication.

**ART 344. Jewelry and Metalsmithing IV. (3 Credits)**

A. Prerequisite: ART 343, Major GPA 2.75 or above. An advanced course emphasizing continued creative exploration with jewelry and metalsmithing. Advanced problems develop students' understanding of metal as an art medium and provide opportunity for personal expression. Students explore raising, sinking, forging, casting, etching, enameling and advanced fabrication. Maximum repeatable hours :6.

**ART 349A. Cooperative Study: Art. (1-8 Credits)**

Work in placements related to academic studies.

**ART 376. Ceramics for Non-Majors. (3 Credits)**

A. Prerequisite: ENG 101 or 101R. Closed to Art majors. An introduction to the craft and art of Ceramics for non-art majors, providing fundamental experiences with materials, hand building, decorating techniques, and firing directed toward both aesthetic and functional problem-solving in the making of ceramic objects. Credit earned may eventually be applied to a major in Art with approval of the Department. Credit will not be awarded for ART 376 and ART 290.

**ART 381. Photography, Color Digital. (3 Credits)**

A. Prerequisite: ENG 101 or ENG 101R or ART 152 or Departmental Approval. Fully Manual Digital Camera Required. Introduction to basic manual digital camera operation, file management, workflow, software, printing, lighting, and the principles and aesthetics of color and digital photography.

**ART 382. Photography III. (3 Credits)**

I, II. Prerequisite: ART 280 and 381. Intermediate course in photography. Builds on creative skills and techniques learned in previous photography courses. Course may cover traditional, digital or alternative processes.

**ART 383. Photography IV. (3 Credits)**

I, II. Prerequisite: ART 382. Intermediate course in photography. Builds on creative skills and techniques learned in previous photography courses. Course may cover traditional, digital or alternative processes.

**ART 391. Ceramic Wheel Forming. (3 Credits)**

A. Prerequisite: ART 270 or ART 290. Introductory course focusing on ceramic wheel forming methods that investigate the vessel as three-dimensional form. Students will be introduced to the history of ceramics as it relates to the contemporary production and design of functional objects. Students will also learn foundational ceramic material processes and studio safety procedures.

**ART 392. Ceramic Mixed Media Methods. (3 Credits)**

A. Prerequisite: ART 270 or ART 290. Intermediate course focusing on mixed media ceramic object making. Students will experiment with multiple ceramic building strategies to achieve self-directed outcomes that explore ideas, concepts, and multiple interpretations. Emphasis on experimental, mixed media, non-ceramic processes and studio safety procedures will be introduced.

**ART 401. Advanced Drawing. (3 Credits)**

A. Prerequisites: ART 300 and 301. Advanced problems in drawing emphasizing personal explorations of media and imagery.

**ART 413. Advanced Painting. (3 Credits)**

A. Prerequisites: ART 313, 314. Major GPA 3.0 2.75, Co-requisite ART499. Advanced problems in painting, emphasizing the student's personal expression through imagery and techniques. Course builds on previous painting courses, providing opportunity to explore contemporary and traditional techniques, media, and subject matter.

**ART 414. BFA Painting. (3 Credits)**

I, II. Prerequisites: ART 413, Major GPA 2.5, and admission to the BFA program. Corequisite: ART 499. Final exit course in BFA painting area with emphasis in professional development. Course includes preparation for senior show, writing of senior thesis, and portfolio assembly.

**ART 423. Advanced Sculpture. (3 Credits)**

I, II. Prerequisites: ART 322, 323, Major GPA 2.5 or above and admission to the sculpture option of BFA program or departmental approval. The students sculptural directions are defined and directed at the advanced level, through individually tailored extended projects.

**ART 424. BFA Sculpture. (3 Credits)**

I, II. Prerequisites: ART 423, Major GPA 2.5, and admission to the BFA program. Corequisite: ART 499. Final exit course in BFA sculpture area with emphasis on professional development. Course includes preparation for senior show, writing of senior thesis, and portfolio assembly.

**ART 430. Contemporary Print Media. (3 Credits)**

A. Prerequisite: ART 334 or 335 or 336, Major GPA 2.75. Co-requisite: ART499. Advanced study in Print media as an art medium with opportunity for creative exploration. Research in contemporary print media techniques, digital software and related technologies.

**ART 434. BFA Printmaking. (3 Credits)**

I, II. Prerequisites: ART 433, Major GPA 2.5, and admission to the BFA program. Corequisite: ART 499. Final exit course in BFA printmaking area with emphasis on professional development. Course includes preparation for senior show, writing of senior thesis, and portfolio assembly.

**ART 443. Jewelry and Metalsmithing V. (3 Credits)**

A. Prerequisites: ART 344, Major GPA 2.75. Co-requisite: ART499. Designed for the advanced student pursuing a career as a professional jeweler/metalsmith. Attention given to developing a personal aesthetic or design philosophy. Students will submit a work proposal for the semester and develop a cohesive body of work for exhibition.

**ART 444. BFA Jewelry and Metalsmithing. (3 Credits)**

I, II. Prerequisites: ART 443, Major GPA 2.5 and admission to the BFA program. Corequisite: ART 499. Final exit course in BFA jewelry and metal smithing area with emphasis on professional development. Course includes preparation for senior show, writing of senior thesis, and portfolio assembly.

**ART 461. Studio Art Professional Practices. (3 Credits)**

A. Prerequisite: ARH 392 or 392W or 393 or 393W or Departmental Approval. This course will survey contemporary studio art professional practice standards and provide students with the necessary tools to further their artistic careers.

**ART 463. Independent Study: Problems in Art and Design. (1-3 Credits)**

A. Prerequisite: approval of proposal by department. Limited to seniors. Continuation of study begun in regular departmental courses. May be retaken to a maximum of nine hours.

**ART 483. Photography V. (3 Credits)**

I, II. Prerequisites: ART 383 Major GPA 2.5 or above and admission to the BFA program. Corequisite: ART 499. Advanced course builds on creative skills and techniques learned in previous photography courses. Emphasizes individual expression, professional presentation and exhibition.

**ART 484. BFA Photography. (3 Credits)**

I, II. Prerequisites: ART 483, Major GPA 2.5, and admission to the BFA program. Corequisite: ART 499. Culminating experience in art photography serving to crystallize and unify individual expression. The student prepares a portfolio and written statement of personal photographic concerns.

**ART 491. Ceramic Wheel Forming 2. (3 Credits)**

A. Prerequisite: ART 371 or ART 372 or ART 376 or ART 391 or ART 472 or ART 473, Major GPA 2.75 or Departmental Approval. Advanced ceramic wheel forming course focusing on concept-driven design strategies that form a body of work unique to each student artist. Additional emphasis will be placed on student driven materials research, experimental firing techniques, and professional applications of the completed art work. Maximum repeatable hours: 6, B.S. Art/Design Studio students may count a maximum of 3 credits toward major requirements. B.F.A. students may count a maximum of 6 credits toward major requirements.

**ART 492. Ceramic Materials and Methods. (3 Credits)**

A. Prerequisite: ART 371 or ART 372 or ART 391 or ART 392 or ART 472 or ART 473 or 491, Major GPA 2.75. Co-requisite: Art 499. Advanced ceramics course focused on mold-making, slip-casting, and ceramic material testing strategies relevant to the ceramic process. Each student will address their personal approach to production and design strategies, while developing a studio practice that prepares them for a career in the arts.

**ART 499. Senior Exhibition. (0 Credits)**

A. Prerequisite: Major GPA 2.75 and last semester senior in BFA program or Departmental Approval. Organization and presentation of an exhibition of the student's work.

**ART 560. Workshop in Art and Design:\_\_\_\_. (3 Credits)**

A. Prerequisite: approval of department. Intensive study in a specific phase of the visual arts. Current processes, materials, and theoretical foundation will be considered. May be retaken with different topics to a maximum of nine hours.

**ART 563. Art Theory & Criticism Seminar. (3 Credits)**

A. Prerequisites: ARH 392 or 392W or 393 or 393W; Junior Standing. A seminar that investigates leading historical and contemporary theories and analytical methodologies that impact the ways in which art is produced, viewed, and written about today.

**Art Education****AED 360. Introduction to Materials Injury. (3 Credits)**

I. Students will explore processes and materials used in K-12 programs, will present exploration results through seminar-style discussions and demonstrations, and will begin to understand and practice developmentally appropriate teaching strategies through peer teaching. Credit will not be awarded for both AED 360 and ART 360.

**AED 361. Art Teaching Grades P-5. (3 Credits)**

I. AED 360 or departmental approval, and admission to professional education. Developmentally appropriate curriculum, materials, and methods for the grades P-5. Minimum of 10 field/clinical hours. Credit will not be awarded for both EME 361 and AED 361.

**AED 460. Materials Inquiry in Art Educ. (3 Credits)**

I. Prerequisites: AED 360 or ART 360 and open to senior art students who plan to teach. Diversified inquiry into art materials and processes in the elementary and secondary schools. Credit will not be awarded for both ART and AED 460.

**AED 540. Teaching Art in the Schools. (3 Credits)**

I. Cross-Listed as ESE 540. Prerequisites: Admission to professional education; EDF 413 (C), EMS 490 (C), CED (B), and 90 hours in the BA in Art Education Program. Co-requisite: AED 561 and CED450. Developmentally appropriate materials and methods for teaching art in the schools. Credit will not be awarded for both AED 540 and ESE 540.

**AED 561. Materials Inquiry in Art Education. (3 Credits)**

A. Prerequisites: AED 360 and admission to professional education. Co-requisite: CED 450. Diversified inquiry into art materials and processes in the elementary and secondary schools. Maximum number of repeatable hours: 6.

**Art History****ARH 392. Survey of Global Art History I. (3 Credits)**

Prerequisites: ENG 102 (C) or 105 (B) or HON 102 (C). A survey of art across world cultures from prehistory to the medieval period. Credit will not be awarded to students who have credit for ARH 392W; or ARH 390 or 390W.

**ARH 392W. Survey of Global Art History I. (3 Credits)**

Prerequisites: ENG 102 (C) or 105 (B) or HON 102 (C). A writing intensive survey of art across world cultures from prehistory to the medieval period. Credit will not be awarded to students who have credit for ARH 392; or ARH 390 or 390 W.

**ARH 393. Survey of Global Art History II. (3 Credits)**

Prerequisites: ENG 102 (C) or 105 (B) or HON 102 (C). A survey of art across world cultures from the Early Renaissance (c. 1400) to the present. Credit will not be awarded to students who have credit for ARH 393W; or ARH 391 or 391W.

**ARH 393W. Survey of Global Art History II. (3 Credits)**

Prerequisites: ENG 102 (C) or 105 (B) or HON 102 (C). A writing intensive survey of art across world cultures from the Early Renaissance (c. 1400) to the present. Credit will not be awarded to students who have completed ARJ 393; or ARH 391 or ARH 391W.

**ARH 463. Problems in Art History. (3 Credits)**

A. Prerequisite: ARH 392 or 392W and ARH 393 or 393W or departmental approval. Limited to seniors. Continuation of study begun in regular, departmental, art history courses. May be retaken to a maximum of nine hours.

**ARH 464. Renaissance and Baroque Art. (3 Credits)**

A. Prerequisite: ARH 392 or 392W or ARH 393 or 393W or departmental approval. An in-depth study of representative aspects of the painting, sculpture, and/or architecture of Europe between 1400 and 1750.

**ARH 465. History of Graphic Arts. (3 Credits)**

I, II. Prerequisite: ARH 392 or 392W or 393 or 393W or departmental approval. The history of the reproducible image in Western Art, from the introduction of printing and typography in the 15th century, through the advent of photography and the emergence of the modern graphic design profession.

**ARH 467. U.S. Architectural History. (3 Credits)**

(3) I, II. Prerequisite: HIS 202 and 203; or ARH 392 and 393. A specialized study of the history of American architecture from the beginnings of colonization in the 16th century to the late 20th century, focusing on regional and period styles and the range of typologies.

**ARH 490. Art in the Age of Revolutions. (3 Credits)**

Prerequisites: ARH 392 or 392W or 393 or 393W or departmental approval. A study of European art and culture during periods of artistic, social, and political upheavals in the first half of the nineteenth century. Credit will not be awarded for both ARH 490 and ARH 496.

**ARH 491. The Rise of Modernism. (3 Credits)**

Prerequisites: ARH 392 or 392W or 393 or 393W or departmental approval. An in-depth study of the development of modernism and the avant-garde in mid 19th- and early 20th-century Europe. Credit will not be awarded for both ARH 491 and ARH 496.

**ARH 494. Women and the Visual Arts. (3 Credits)**

Prerequisite: ARH 392 or 392W or 393 or 393W or departmental approval. A study of the roles of women in visual art and culture from various perspectives, including women as artists, patrons, and subjects in eighteenth- and nineteenth-century European art.

**ARH 495. Women and the Visual Arts. (3 Credits)**

Prerequisite: ARH 390 or ARH 390W or ARH 391 or ARH 391W or departmental approval. A study of the roles of women in visual art and culture from various perspectives, including woman as artists, patrons, and subjects in eighteenth- and nineteenth-century European art.

**ARH 497. History of Modern Art. (3 Credits)**

A. Prerequisites: ARH 392 or 392W or ARH 393 or ARH 393W or departmental approval. A specialized study of art and architecture in Europe and America from the late nineteenth to the late twentieth century.

**ARH 498. U.S. Art History. (3 Credits)**

A. Prerequisites: ARH 392 or 392W or ARH 393 or ARH 393W or departmental approval. An in-depth study of the arts of the United States of America from 1565 to 2000.

**Design****DES 121. The Interior Environment. (3 Credits)**

A. An orientation to the profession: relationship to allied fields, contemporary developments, professional organizations, career options and philosophical approaches. Introduction to the principles and elements of design, programming, space planning, and decorative ornamentation. Open only to non-Interior Design majors.

**DES 122. Graphic Communication in ID. (3 Credits)**

I. Emphasis on graphic communication as part of the design process for interior designers. Integration of drawing skills employed in graphic representational methods used to analyze and describe interiors and conceptual ideas. Studio.

**DES 225. Interior Materials. (3 Credits)**

II. An investigation of the interior finish materials and component systems used in the design profession; their properties, performances, sustainability, application and installation techniques, as well as health and life safety issues and the appropriate trade sources.

**DES 226. Interior Design Studio II. (3 Credits)**

II. Prerequisite: DES 222. The study of the concepts and requirements in residential interior design. Programming, human factors, space planning, and study of functional and aesthetic aspects of residential environments will be explored. Studio meets for 3 hours twice a week.

**DES 250. Introduction to Graphic Design. (3 Credits)**

A. Prerequisites: ART 100 and 152. Introduction to the field of professional graphic design and its conceptual and technical makeup. Credit Will not be awarded for both DES 250 and DES 256.

**DES 256. Graphic Design for Non-Majors. (3 Credits)**

A. Pre-prerequisite: ENG 101 of Departmental Approval. An introduction to principles and processes of graphic design as a form of visual communication through type, image, color and form. Credit will not be awarded to students who have credit for DES 250 or 251.

**DES 319. Seminar in Interior Design. (1-3 Credits)**

A. A study of technical information relevant to interior design. Course content to be determined by student interest and needs. May be retaken to a maximum of six hours provided the content is different.

**DES 322. Interior Design Studio III. (3 Credits)**

I. Prerequisites: DES 226 and 330, Major GPA 3.0, and admission to the BFA program. Corequisites: DES 325. Research, analysis, programming, space planning, and human factors in residential and/or small-scale commercial design. Laptops and CAD software required. Studio meets for 3 hours twice a week.

**DES 325. Professional Practice in ID. (3 Credits)**

I. Corequisite: DES 322. An examination of the profession of interior design including history, procedures, documents, organizations, trade resources, certification, management, and ethics.

**DES 327. History of Interior Design I. (3 Credits)**

I. Prerequisite or Corequisite: ARH 390 and 391. The study of the history and theory of architecture, interiors, and decorative arts from the Renaissance through the nineteenth century. An examination of the significance and application to current design problems.

**DES 328. History of Interior Design II. (3 Credits)**

II. Prerequisite: DES 327. The study of the history and theory of architecture, interiors, and decorative arts from the nineteenth century through the present day. An examination of the significance and application to current design problems.

**DES 330. Lighting Design. (3 Credits)**

II. Prerequisite: CON 250. Introduction to lighting with an emphasis on theory, codes, and practical application/selection of lighting to enhance interior space. Integration of lighting issues that are essential and specific to the industry and profession of interior design.

**DES 349. Applied Learning in Art & Design. (0.5-8 Credits)**

A. Work in a professional environment related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours employment required for each semester hour credit. Students must have successfully completed 30 semester hours of course work and transfer students must have completed at least one semester of full-time course work at EKU with a GPA of 2.5.

**DES 349A. Cooperative Study: Art & Design. (0.5-8 Credits)**

A. Work in a professional environment related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours employment required for each semester hour credit. Students must have successfully completed 30 semester hours of course work and transfer students must have completed at least one semester of full-time course work at EKU with a GPA of 2.5.

**DES 350. Typography. (3 Credits)**

II. Prerequisite: DES 250, Departmental approval and 2.5 GPA in ART, ARH, and DES courses. Corequisite: DES 351. Introduction to the use of letterforms in graphic design and visual culture. Students will research typographic terms and history and will develop an understanding of visual hierarchy in graphic design.

**DES 351. Sophomore Studio. (3 Credits)**

A. Prerequisite: DES 250, departmental approval and 2.5 GPA in ART, ARH, and DES courses. Corequisite: DES 350. An exploration of visual communication issues and applications in graphic design. The relationship of visual form to meaning, type and image relationships will be examined.

**DES 352. Image Making. (3 Credits)**

A. Prerequisites: DES 353 and 354, Major GPA 2.5 and admission to the BFA program. Corequisite: DES 451. An integration of various techniques and materials, both traditional and digital, to promote understanding of the importance of imagery within the field of graphic design.

**DES 353. Production for Graphic Design. (3 Credits)**

A. Prerequisites: DES 350, 351, Major GPA 2.5, and admission to the BFA program. Corequisite: DES 354. Exploration of materials, surface graphics, marketing, and production problems as the refinement and integration of many design principles.

**DES 354. Typography II. (3 Credits)**

A. Prerequisites: DES 350, 351, Major GPA 2.5, and admission to the BFA program. Corequisite: DES 453. Advanced study of typography as an expressive medium. Special attention to multi-page document work, advanced issues of typography in scale as well as its usage in new media and alternative situations.

**DES 421. Supervised Field Exp in ID. (6 Credits)**

SUMMER ONLY. Prerequisites: open to Interior Design BFA students only, DES 325 and 326, minimum 2.25 overall GPA, and 3.0 major GPA. Observation of an interior design firm's operation, with performance in assigned tasks. Students are placed with an architecture or interior design firm for a continuous full time ten-week experience.

**DES 422. Interior Design Studio V. (3 Credits)**

I. Prerequisites: DES 326, 328, Major GPA 3.0 and admission to the BFA program. Advanced studio experience in interior design with emphasis on one or more of the following: residential, exhibit/retail, hospitality, office, historic preservation and adaptive use. Studio meets for 3 hours twice a week.

**DES 450. Professional Practices in Graphic. (3 Credits)**

I, II. Prerequisites: DES 352, 451, Major GPA 2.5, and admission to the BFA program. Corequisite: DES 452. This course examines the professional standards and practices specific to the field of graphic design.

**DES 451. New Media. (3 Credits)**

A. Prerequisites: DES 353, 354 Major GPA 2.5, and admission to the BFA program. Corequisite: DES 352. Introduction to the artistic and technical issues of multimedia through website application.

**DES 452. New Media II. (3 Credits)**

A. Prerequisites: DES 352 and 451, Major GPA 2.5, and admission to the BFA program. Corequisite: DES 450. Advanced communication through multimedia applications.

**DES 453. Senior Workshop in Design. (3 Credits)**

I, II. Prerequisite: DES 450, 452 Major GPA 2.5 and admission to the BFA program. Exploration of current issues, technical procedures, and design products.

**DES 454. BFA Graphic Design. (3 Credits)**

A. Prerequisites: DES 453, Major GPA 2.75. Corequisite: ART 499. Final phases of the student designer's transition into the profession. Additional guidance towards portfolio and senior thesis development.

**DES 463. Problems in Design:\_\_\_\_. (3 Credits)**

I, II. Prerequisites: DES 354 and 451 or Departmental Approval. Individualized instruction in design builds on creative skills and techniques learned in prior design courses. This course stresses the development of a specialized study of techniques and concepts for a design portfolio. May be retaken with different topics to earn a maximum of nine hours.

**DES 521. Analytical Furniture Design. (3 Credits)**

A. Analysis of furniture design in terms of integration of function and styles with structure; coordination of furniture style with interior architectural expression.

## Applied Creative Thinking, Certificate

Trenia Napier, Director

Noel Studio 210Q

859-622-8322

studio.eku.edu/minor-applied-creative-thinking (<http://studio.eku.edu/minor-applied-creative-thinking/>)

The Applied Creative Thinking certificate is offered for students in all disciplines.

## Program Requirements

Code	Title	Hours
<b>Core Courses</b>		
CRE 101W	Introduction to Applied Creativity	3
CRE 400	Creativity Studies Project (must be taken after the completion of the other five courses)	3
Choose six hours from the following courses:		6
CRE 201	Innovation and Creativity	
CRE 300	Pedagogy of Creativity Studies	
CRE 301	Creativity Texts & Technology	
CRE 305	Creativity and Research	
CRE 347	Special Topics in Creativity:	
CRE 490	Independent Study: Creative Thinking	
<b>Total Hours</b>		<b>12</b>

## Art History, Minor

### Program Requirements

A student may minor in art history by completing a minimum of 18 hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
ARH 392	Survey of Global Art History I	3
or ARH 392W	Survey of Global Art History I	
ARH 393	Survey of Global Art History II	3
or ARH 393W	Survey of Global Art History II	
ART 563	Art Theory & Criticism Seminar	3
Choose from nine hours of the following:		9
ARH 463	Problems in Art History	
ARH 464	Renaissance and Baroque Art	
ARH 465	History of Graphic Arts	
ARH 490	Art in the Age of Revolutions	
ARH 491	The Rise of Modernism	
ARH 494	Women and the Visual Arts	
ARH 497	History of Modern Art	
ARH 498	U.S. Art History	
<b>Total Hours</b>		<b>18</b>

## Art/Design Studio, Bachelor of Fine Arts with a Concentration in Graphic Design (B.F.A.)

### Program Requirements

CIP Code: 50.0702

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Student Success Seminar (waived for transfers with 30+ hours.)	1
	Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives categories)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT – BFA majors will fulfill ACCT with the following. (Credit hours are listed in Core Courses below.)	

ART 563	Art Theory & Criticism Seminar	
<b>Major Requirements</b>		
<i>Core Courses</i>		
Foundation Courses:		
ART 100	Drawing I	3
ART 152	Design, Two-Dimensional	3
ART 153	Design, Three-Dimensional	3
ART 154	Digital Media	3
Art Courses:		
Choose from three hours of the following:		
ART 210	Painting I	
ART 230	Printmaking I	
ART 280	Photo, Black and White Film	
DES 250	Introduction to Graphic Design	
ART 240	Jewelry and Metalsmithing I	3
or ART 290	Ceramics- Hand Building Methods	
Choose from six additional hours of the following:		
ART 210	Painting I	6

ART 230	Printmaking I	
ART 240	Jewelry and Metalsmithing I	
ART 290	Ceramics- Hand Building Methods	
DES 250	Introduction to Graphic Design	
ART 563	Art Theory & Criticism Seminar	3
Art History Courses:		
ARH 392	Survey of Global Art History I	3
or ARH 392W	Survey of Global Art History I	
ARH 393	Survey of Global Art History II	3
or ARH 393W	Survey of Global Art History II	
ARH Electives:		
Choose from three hours of the following:		
ARH 463	Problems in Art History (Choose from three hours of the following:)	3
ARH 464	Renaissance and Baroque Art	
ARH 465	History of Graphic Arts	
ARH 467	U.S. Architectural History	
ARH 490	Art in the Age of Revolutions	
ARH 491	The Rise of Modernism	
ARH 494	Women and the Visual Arts	
ARH 497	History of Modern Art	
ARH 498	U.S. Art History	

<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Teacher Education		
Graphic Design		30
Studio Arts		
<i>Free Electives</i>		
Choose from 17 hours of free electives		
<b>Total Hours</b>		<b>120</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
DES 350	Typography	3
DES 351	Sophomore Studio	3
DES 352	Image Making	3
DES 353	Production for Graphic Design	3
DES 354	Typography II	3
DES 450	Professional Practices in Graphic	3
DES 451	New Media	3
DES 452	New Media II	3
DES 453	Senior Workshop in Design	3
DES 454	BFA Graphic Design	3
or ART 499	Senior Exhibition	
<b>Total Hours</b>		<b>30</b>

# Art/Design Studio, Bachelor of Fine Arts with a Concentration in Studio Arts (B.F.A.)

## Program Requirements

CIP Code: 50.0702

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
	Student Success Seminar (waived for transfers with 30+ hours.)	1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives categories)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – BFA majors will fulfill ACCT with the following. (Credit hours are listed in Core Courses below.)		
ART 563	Art Theory & Criticism Seminar	
<b>Major Requirements</b>		
<i>Core Courses</i>		
Foundation Courses:		
ART 100	Drawing I	3
ART 152	Design, Two-Dimensional	3
ART 153	Design, Three-Dimensional	3
ART 154	Digital Media	3
Art Courses:		
Choose from three hours of the following:		3
ART 210	Painting I	

ART 230	Printmaking I	
DES 250	Introduction to Graphic Design	
ART 240	Jewelry and Metalsmithing I	3
or ART 290	Ceramics- Hand Building Methods	
Choose from six additional hours of the following:		6
ART 210	Painting I	
ART 230	Printmaking I	
ART 240	Jewelry and Metalsmithing I	
ART 290	Ceramics- Hand Building Methods	
DES 250	Introduction to Graphic Design	
ART 563	Art Theory & Criticism Seminar	3
Art History Courses:		
ARH 392	Survey of Global Art History I	3
or ARH 392W	Survey of Global Art History I	
ARH 393	Survey of Global Art History II	3
or ARH 393W	Survey of Global Art History II	
ARH Electives:		
Choose from three hours of the following:		3
ARH 463	Problems in Art History	
ARH 464	Renaissance and Baroque Art	
ARH 465	History of Graphic Arts	
ARH 467	U.S. Architectural History	
ARH 490	Art in the Age of Revolutions	
ARH 491	The Rise of Modernism	
ARH 494	Women and the Visual Arts	
ARH 497	History of Modern Art	
ARH 498	U.S. Art History	

### Concentrations

Students must select one of the following Concentrations:

Teacher Education		
Graphic Design		
Studio Arts		30
<i>Free Electives</i>		
Choose from 17 hours of free electives		17
<b>Total Hours</b>		<b>120</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ART 461	Studio Art Professional Practices	3
ART 499	Senior Exhibition	0
Choose from an additional 12 sequential hours of one of the following categories:		12
Painting:		
ART 312	Painting II	
ART 313	Painting III	
ART 314	Painting IV (maximum six credits)	
ART 413	Advanced Painting (Corequisite ART 499)	
Printmaking:		
ART 334	Traditional Printmaking	
ART 335	Print Media	
ART 336	Contemporary Printmaking (maximum six credits)	

ART 430	Contemporary Print Media (Corequisite ART 499)	
<b>Metals:</b>		
ART 341	Jewelry and Metalsmithing II	
ART 343	Jewelry and Metalsmithing III	
ART 344	Jewelry and Metalsmithing IV (maximum 6 credits)	
ART 443	Jewelry and Metalsmithing V (Corequisite ART 499)	
<b>Ceramics:</b>		
ART 391	Ceramic Wheel Forming	
ART 392	Ceramic Mixed Media Methods	
ART 491	Ceramic Wheel Forming 2 (maximum six credits)	
ART 492	Ceramic Materials and Methods (Corequisite ART 499)	
Choose from an additional 15 hours of the following:		15
ART 300	Drawing Media	
ART 301	Figure Drawing	
ART 401	Advanced Drawing	
ART 312	Painting II	
ART 313	Painting III	
ART 314	Painting IV	
ART 334	Traditional Printmaking	
ART 335	Print Media	
ART 336	Contemporary Printmaking	
ART 341	Jewelry and Metalsmithing II	
ART 343	Jewelry and Metalsmithing III	
ART 344	Jewelry and Metalsmithing IV	
ART 391	Ceramic Wheel Forming	
ART 392	Ceramic Mixed Media Methods	
ART 381	Photography, Color Digital	
ART 413	Advanced Painting	
ART 433		
ART 443	Jewelry and Metalsmithing V	
ART 472		
ART 473		
<b>Total Hours</b>		<b>30</b>

# Art/Design Studio, Bachelor of Fine Arts with a Concentration in Teacher Education (B.F.A.)

## Program Requirements

CIP Code: 50.0702

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		

A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Student Success Seminar (waived for transfers with 30+ hours.)	1
	Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives categories)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT – BFA majors will fulfill ACCT with the following. (Credit hours are listed in Core Courses below.)		
ART 563	Art Theory & Criticism Seminar	
<b>Major Requirements</b>		
<i>Core Courses</i>		
Foundation Courses:		
ART 100	Drawing I	3
ART 152	Design, Two-Dimensional	3
ART 153	Design, Three-Dimensional	3
ART 154	Digital Media	3
Art Courses:		
Choose from three hours of the following:		
ART 210	Painting I	
ART 230	Printmaking I	
DES 250	Introduction to Graphic Design	
ART 240	Jewelry and Metalsmithing I	3
	or ART 290	Ceramics- Hand Building Methods
Choose from six additional hours of the following:		
ART 210	Painting I	
ART 230	Printmaking I	
ART 240	Jewelry and Metalsmithing I	
ART 290	Ceramics- Hand Building Methods	
DES 250	Introduction to Graphic Design	
ART 563	Art Theory & Criticism Seminar	3
Art History Courses:		
ARH 392	Survey of Global Art History I	3
	or ARH 392W	Survey of Global Art History I
ARH 393	Survey of Global Art History II	3
	or ARH 393W	Survey of Global Art History II

ARH Electives:	
Choose from three hours of the following:	3
ARH 463	Problems in Art History
ARH 464	Renaissance and Baroque Art
ARH 465	History of Graphic Arts
ARH 467	U.S. Architectural History
ARH 490	Art in the Age of Revolutions
ARH 491	The Rise of Modernism
ARH 494	Women and the Visual Arts
ARH 497	History of Modern Art
ARH 498	U.S. Art History

**Concentrations**

Students must select one of the following Concentrations:

Teacher Education	47
Graphic Design	
Studio Arts	

*Free Electives*

Choose from 0-14 hours of free electives

**Total Hours** 120**Concentration**

Code	Title	Hours
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**Concentration Courses***Art Education*

AED 360	Introduction to Materials Injury	3
AED 561	Materials Inquiry in Art Education	3
or ART 499	Senior Exhibition	

*Art Elective*

Choose from six hours of the following: 6

ART 300	Drawing Media	
ART 301	Figure Drawing	
ART 312	Painting II	
ART 334	Traditional Printmaking	
ART 335	Print Media	
ART 341	Jewelry and Metalsmithing II	
ART 381	Photography, Color Digital	
ART 391	Ceramic Wheel Forming	
ART 392	Ceramic Mixed Media Methods	
ART 401	Advanced Drawing	

*Professional Education*

AED 361	Art Teaching Grades P-5	3
or EME 361	Art Teaching Grades P-5	
AED 540	Teaching Art in the Schools	3
or ESE 540	Teaching Art in the Schools	
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	2
EMS 300W	Curriculum and Instructional Design	1
EMS 490	Classroom & Behavior Management	1
EMS 474	Disciplinary Literacy	3

SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>Exit Requirements</i>		
PRAXIS Examination (for Teacher Education)		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>47</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**PRAXIS Disclaimer:** Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Educator Preparation, Assessment, and Internship at (502) 564-5989.

## Art/Design Studio, Bachelor of Science (B.S.)

Upon completion of the Bachelor of Science Degree (B.S.) in Art/Design Studio, students will gain a broad knowledge of a variety of media and techniques, will be able to apply elements and principles of art and design, be more aware of the influence of perception and observation, and communicate ideas effectively and expressively. Students will apply critical and creative thinking through making, research, analysis, and writing to demonstrate an awareness of historical and contemporary concepts, theories, and styles across global cultures and time periods. Students pursuing the B.S. in Art/Design Studio will have the opportunity to explore multiple disciplines beyond the Department of Art and Design.

## Program Requirements

CIP Code: 50.0701

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6

<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
Student Success Seminar (waived for transfers with 30+ hrs.)		1
Writing Intensive Course (hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Art majors will fulfill ACCT with the following. (Credit hours are included in Core Courses below.)		
ART 562		
<b>Major Requirements</b>		
<i>Core Courses</i>		
Foundation Courses:		
ART 100	Drawing I	3
ART 152	Design, Two-Dimensional	3
ART 153	Design, Three-Dimensional	3
ART 154	Digital Media	3
Art Core Courses:		
Choose from three hours of the following:		3
ART 210 Painting I		
ART 230 Printmaking I		
ART 280 Photo, Black and White Film		
DES 250 Introduction to Graphic Design		
ART 240	Jewelry and Metalsmithing I	3
or ART 290 Ceramics- Hand Building Methods		
Choose from six additional hours of the following:		6
ART 210 Painting I		
ART 230 Printmaking I		
ART 240 Jewelry and Metalsmithing I		
ART 280 Photo, Black and White Film		
ART 290 Ceramics- Hand Building Methods		
DES 250 Introduction to Graphic Design		
ART 563	Art Theory & Criticism Seminar	3
Art History Core Courses:		
ARH 392	Survey of Global Art History I	3
or ARH 392W Survey of Global Art History I		
ARH 393	Survey of Global Art History II	3
or ARH 393W Survey of Global Art History II		
Art History Electives:		
Choose from six hours of the following:		6

ARH 463	Problems in Art History
ARH 464	Renaissance and Baroque Art
ARH 465	History of Graphic Arts
ARH 467	U.S. Architectural History
ARH 490	Art in the Age of Revolutions
ARH 491	The Rise of Modernism
ARH 494	Women and the Visual Arts
ARH 497	History of Modern Art
ARH 498	U.S. Art History

### *Studio Arts Concentration*

ART 461	Studio Art Professional Practices	3
Choose from 12 hours of the following AED/ARH/ART/DES electives: 12		
AED 360	Introduction to Materials Injury	
AED 361	Art Teaching Grades P-5	
ARH 463	Problems in Art History	
ARH 464	Renaissance and Baroque Art	
ARH 465	History of Graphic Arts	
ARH 490	Art in the Age of Revolutions	
ARH 491	The Rise of Modernism	
ARH 494	Women and the Visual Arts	
ARH 497	History of Modern Art	
ARH 498	U.S. Art History	
ART 300	Drawing Media	
ART 301	Figure Drawing	
ART 312	Painting II	
ART 313	Painting III	
or ART 314 Painting IV		
ART 334	Traditional Printmaking	
ART 335	Print Media (three credits maximum)	
or ART 336 Contemporary Printmaking		
ART 341	Jewelry and Metalsmithing II	
ART 343	Jewelry and Metalsmithing III	
or ART 344 Jewelry and Metalsmithing IV		
ART 391	Ceramic Wheel Forming	
ART 392	Ceramic Mixed Media Methods	
ART 381	Photography, Color Digital	
ART 382	Photography III	
or ART 383 Photography IV		
ART 401	Advanced Drawing	
ART 461	Studio Art Professional Practices	
ART 463	Independent Study: Problems in Art and Design	
ART 560	Workshop in Art and Design:___	
DES 250	Introduction to Graphic Design	
DES 350	Typography	
DES 351	Sophomore Studio	

### *Free Electives*

Choose from 29 hours of free electives		29
<b>Total Hours</b>		<b>120</b>

## Studio Art, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
Choose from one of the following:		3
ART 100	Drawing I	
ART 152	Design, Two-Dimensional	
ART 153	Design, Three-Dimensional	
ART 154	Digital Media	
Choose from 15 hours of the following:		15
ART 210	Painting I	
or ART 216	Painting for Non-Majors	
ART 230	Printmaking I	
or ART 236	Printmaking for Non- Art Majors	
ART 240	Jewelry and Metalsmithing I	
or ART 246	Jewelry and Metal for Non-Majors	
ART 290	Ceramics- Hand Building Methods	
or ART 376	Ceramics for Non-Majors	
ART 280	Photo, Black and White Film	
ART 300	Drawing Media	
ART 301	Figure Drawing	
ART 401	Advanced Drawing	
ART 312	Painting II	
or ART 313	Painting III	
ART 314	Painting IV	
ART 334	Traditional Printmaking	
ART 335	Print Media	
or ART 336	Contemporary Printmaking	
ART 341	Jewelry and Metalsmithing II	
ART 343	Jewelry and Metalsmithing III	
ART 381	Photography, Color Digital	
ART 382	Photography III	
or ART 383	Photography IV	
ART 391	Ceramic Wheel Forming	
ART 392	Ceramic Mixed Media Methods	
AED 360	Introduction to Materials Injury	
AED 361	Art Teaching Grades P-5	
DES 256	Graphic Design for Non-Majors	
DES 250	Introduction to Graphic Design	
DES 350	Typography	
DES 351	Sophomore Studio	
<b>Total Hours</b>		<b>18</b>

## School of Communication

### Director

Dr. Ginny Whitehouse  
(859) 622-1871  
Combs 317

## Faculty

A. Brooks, C. Cogdill, F. Dickson, A. Endsley, J. Fairchild, E. Hofelich, T.Kelley, K. Kimmel, J. King, E. Meiners, K. Previs, M. Randolph, J. Strada, and G. Whitehouse.

The School of Communication offers four-year Bachelor of Arts degree programs in three areas: Broadcasting and Electronic Media, Communication Studies, and Public Relations.

## School Goals

The School of Communication's student-centered program seeks to transform lives through excellence in instruction, advising, scholarship, and service. The school strives to produce creative and effective communicators by providing cutting-edge programs emphasizing hands on and practical learning. Empowered by this experience, students are prepared to work, lead, and serve in a global society.

## Minors

The department also offers minors in Multimedia Journalism, Broadcasting and Electronic Media, Communication Studies, Public Relations, and Visual Media.

## Media Productions

Students gain hands-on experience working at *The Eastern Progress* Student Media Center with a weekly newspaper, online news site, podcasts, and videos produced as part of the student media outlet and located on Third Floor Combs adjacent to BEM classrooms and faculty offices.

Numerous video productions and films are also produced within the department. Majors and non-majors can receive academic credit for work on some productions.

## Requirements

Some courses may require special skills and equipment such as the ability to keystroke a minimum of 25 words per minute. Instructors will notify students of these requirements at the first class meeting.

Students may earn up to 16 credit hours toward their degree by enrolling in cooperative education courses. Credit for additional practical experience may be earned through practicums. Students majoring or minoring in the Department of Communication are required to attain a minimum grade of "C" in all courses (core and supporting) for a major or minor and a 2.25 or better GPA in all courses (core and supporting) required for the major or minor.

## Bachelor's

- Broadcasting and Electronic Media, Bachelor of Arts with a Concentration in Broadcasting and Electronic Media (B.A.) (p. 389)
- Broadcasting and Electronic Media, Bachelor of Arts with a Concentration in Film Techniques & Technology (B.A.) (p. 390)
- Broadcasting and Electronic Media, Bachelor of Arts with a Concentration in Multimedia Journalism (B.A.) (p. 391)
- Communication Studies, Bachelor of Arts (B.A.) (p. 392)
- Public Relations, Bachelor of Arts (B.A.) (p. 393)

## Associate's

*No results were found.*

## Minor

- Broadcasting and Electronic Media, Minor (p. 392)
- Communication Studies, Minor (p. 393)
- Multimedia Journalism, Minor (p. 393)
- Public Relations, Minor (p. 395)
- Visual Media, Minor (p. 395)

## Certificate

- Communication in the Workplace, Certificate (p. 392)
- Communication Studies, University Certificate (p. 393)
- Dispute Resolution, Certificate (p. 393)
- Sports Communication, Certificate (p. 395)

## Courses

### Broadcasting and Electronics

#### **BEM 200. Mass Media and Society. (3 Credits)**

I, II. Formerly COM 200. Introduction to mass media issues. Analyzes mass media impact on social, political and economic sectors of American and world societies. Considers issues and trends, including ethics, legal controls, violence and censorship. Credit will not be awarded to students with credit for: BEM 200W, COM 200, COM 200W. Gen. Ed. E-5B [SB].

#### **BEM 200W. Mass Media and Society. (3 Credits)**

I, II. Formerly COM 200W. Prerequisites: ENG 102, or ENG 105(B), or HON 102. Introduction to mass media issues. Analyzes mass media impact on social, political and economic sectors of American and world societies. Considers issues and trends, including ethics, legal controls, violence and censorship. Credit will not be awarded to students who have credit for: BEM 200, COM 200, COM 200W. Gen. Ed. E-5B [SB].

#### **BEM 202. Information Gathering. (3 Credits)**

A. A survey of research strategies and methods for locating, analyzing, and managing information from a variety of sources through use of the core techniques of making observations, conducting interviews and accessing documents from government agencies, archives, popular press and web-based sources.

#### **BEM 203. Introduction to Media Writing. (3 Credits)**

A. Prerequisites: ENG 102 or 105(B) or HON 102. Study of the coverage of news for all types of media. Developing writing skills for broadcast, electronic, and print media distribution platforms including television, radio, podcasts, Internet news sites, newspapers, magazines, and social media. Credit will not be awarded for both BEM 203 and COM 201.

#### **BEM 295. Video Production. (4 Credits)**

I, II. Training in non-studio video production and editing. Includes applied aesthetics and production of dramatic informational or experimental work on video. Introduction to techniques, styles, and image structure. Requires weekly projects, critiques. 3 Lec/3 Lab.

#### **BEM 300. Performance in Electronic. (3 Credits)**

Prerequisite: CMS 210. Study of the announcer's role in electronic media. Stresses practice in performing areas, including radio and television production, microphone and television camera techniques with an added emphasis on phonetics and pronunciation.

#### **BEM 301. Multimedia Newswriting. (3 Credits)**

A. Prerequisites: BEM 203. . Students will critically evaluate, then write and produce multimedia stories, learning to combine online text, audio, and video. Students will learn journalistic interviewing techniques and research strategies, and be able to differentiate amongst news, feature, and opinion writing genres. Credit will not be awarded for both BEM 301 and COM 301.

#### **BEM 302. Journalism Practicum. (1 Credit)**

I, II. Formerly JOU 302. Prerequisites: BEM 203. Supervised practical experience in a journalistic operation. Students are required to take a total of three credits for the major. Students may take one credit per semester. Course may be repeated for a total of 8 credits.

#### **BEM 305W. Storytelling & Feature Writing. (3 Credits)**

I, II. Prerequisite: BEM 203 or departmental approval. Create feature stories for multimedia platforms that blend journalism and art. Explore the dual nature of interactive features, including written forms and podcasting, based on facts but with the voice of a novel. Credit will only be awarded for one course: BEM 305W or JOU 305 or JOU 305W.

#### **BEM 320. Digital Publishing Design. (3 Credits)**

I, II. Prerequisite: BEM 200. An introduction to the fundamental tools of digital publication design. Subjects covered include photography, typography, publication best practices, digital image toning and compositing, masking, digital magazine layout, color theory, and press reproduction. Credit will only be awarded for one course: BEM 320, JOU 320 or PUB 320.

#### **BEM 325. Photojournalism. (3 Credits)**

I, II. Formerly JOU 325. Prerequisites: ENG 102 or 105(B) or HON 102. Examines principles of digital photography, stressing hands-on skills in producing professional quality images. Looks at role the photojournalist serves. Provides an introduction to color correction in Photoshop. Credit will not be awarded for both BEM 325 and JOU 325.

#### **BEM 330. Sports Writing and Reporting. (3 Credits)**

I, II. Formerly COM 330. Prerequisites: ENG 102 or 105(B) or HON 102. Writing and producing of game, feature and interview stories for print and broadcast. Includes play by play, sports commentary and analysis. Credit will not be awarded for both COM 330 and BEM 330.

#### **BEM 343. Audio Practicum. (1-3 Credits)**

I, II. Prerequisite: BEM 295. Supervised practical experience on the staff of a radio or other audio facility. May be taken to a maximum of three hours. One hour may be counted toward the major.

#### **BEM 349. Applied Learning in Broadcasting. (0.5-8 Credits)**

A. Prerequisites: junior standing,  $\geq B_{\geq}$  average in all courses within the department, and departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

#### **BEM 349A. Cooperative Study: Broadcasting and the Electronic Media. (0.5-8 Credits)**

A. Prerequisites: junior standing,  $\geq B_{\geq}$  average in all courses within the department, and departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**BEM 349B. Cooperative Study: Broadcasting and the Electronic Media. (0.5-8 Credits)****BEM 349C. Cooperative Study: Broadcasting and the Electronic Media. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies. May not satisfy major or minor requirements within the department.

**BEM 349D. Cooperative Study: Broadcasting and the Electronic Media. (0.5-8 Credits)****BEM 350. Cinema History I. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105(B) or HON 102. Historical survey of cinema from its origins to 1939. Examines developments in directing, acting, editing, and other areas of cinema as an art form. Feature length and short films viewed. Gen. Ed. VII (AH). 2 Lec/2 Lab.

**BEM 351. Cinema History II. (3 Credits)**

A. Historical survey from 1939 to present. Includes theories, styles, and critical positions related to the sound film and considers origins and implications for future directions. Feature length and short films viewed. Gen. Ed. VII (AH). 2 Lec/2 Lab.

**BEM 352. Film Techniques & Technology. (3 Credits)**

I. Prerequisite and/or Corequisite: BEM 350 or 351. The study of various technologies employed in traditional/electronic film production. Emphasis on the study of social, economic, technological and political factors and their effects on the development of cinematic techniques.

**BEM 353W. The Art and Craft of Screenwriting. (3 Credits)**

A. Prerequisite: ENG 101 and 102 ( or 105 (B)) or HON 102. Conceiving, structuring, writing and marketing the contemporary American screenplay. Requires developing and writing original screenplays for marketing in the contemporary film environment. Credit will not be awarded for both BEM 353W and BEM 353.

**BEM 357. Sound Design for Film and Video. (3 Credits)**

A. Prerequisite: BEM 200. Training in audio mixing and sound design for narrative films and other types of video projects. Introduction to industry standard audio software and post-production sound techniques and principles.

**BEM 360. Advanced Lighting Techniques. (4 Credits)**

(4) II. Prerequisite: BEM 295. An examination of advanced lighting techniques for film and television production. Stresses the technical considerations and aesthetics of lighting through analytical and hands-on applications of lighting and film/electronic cinematography. 3 Lec/ 1 Lab.

**BEM 370. Electronic Cinema Production. (4 Credits)**

I, II. Prerequisite: BEM 295(C) and BEM 352(C). Principles and procedures behind single-camera dramatic productions recorded and edited on videotape. Requires group and individual portfolio projects involving a critical and artistic understanding of sound-image relationships. Includes multi camera production, directing and producing. 3 Lec/3 Lab.

**BEM 373. Electronic Cinema Practicum. (1-3 Credits)**

I, II. Prerequisite: BEM 295. Supervised practical experience in film making, editing, and other aspects of film-style production. May be retaken to a maximum of three hours.

**BEM 395. Video Production II. (4 Credits)**

I, II. Prerequisite: BEM 295. Training on and mastery of advanced production and post production equipment. Requires group and individual portfolio projects involving a critical and artistic understanding of sound-image relationships. Includes multi camera production, directing and producing.

**BEM 396. Motion Graphics. (3 Credits)**

(3) I, II. Prerequisite: BEM 295. Training on industry standard motion graphics software used for post-production design and editing. The course examines visual effects and multimedia, covering techniques needed to improve students' command of motion graphics in video production.

**BEM 398. Electronic Video Practicum. (1-3 Credits)**

I, II. Prerequisite: BEM 295. Supervised practical experience on the staff of a television station or other video facility. May be taken to a maximum of three hours. One hour may be counted toward the major.

**BEM 400. Studies in Electronic Media. (1-4 Credits)**

A. Prerequisite: departmental approval. Study of specific areas of media through a course examining timely or topical concerns in the field. Specific topic included in schedule. May be retaken to maximum of nine hours.

**BEM 401. Multimedia Field Production. (3 Credits)**

A. Prerequisites: BEM 295. Students will apply their cumulative skills to design and produce semester-long, individual or team multimedia projects that will engage news consumers in carefully assembled amalgamation of text, audio, video, photos, interactive graphics.

**BEM 402. Advanced Broadcast News. (3 Credits)**

A. Prerequisite: BEM 401. Advanced study in broadcast journalism. Planning, gathering, writing, editing and producing news for television; critical evaluation of broadcast news techniques; individual and team projects.

**BEM 405. Media Law. (3 Credits)**

A. Formerly COM 405. Prerequisite: BEM 200 or 200W or COM 200 or COM 200W or department approval. Examination of First Amendment rights and free expression philosophies that impact multimedia platforms, including access to information and public spaces, copyright, fair use, libel, slander, privacy, free press/fair trial, obscenity, and commercial speech regulation. Credit will not be awarded for both BEM 405 and COM 405.

**BEM 412. Multimedia Web Development. (3 Credits)**

I, II. Formerly JOU 412. Prerequisite: PUB 320 (C) or JOU 320 (C) or BEM 320 (C). An introduction to website design, HTML and CSS. Subjects covered include organizing web content, web hosting, the languages of HTML and CSS, digital image preparation and deployment, browser development tools, Javascript libraries (jQuery), and best practices for coding and deploying multimedia online. Credit will not be awarded to students who have credit for JOU 412 or PUB 412.

**BEM 415. Media Ethics. (3 Credits)**

A. Formerly COM 415. Prerequisite: BEM 200 or 200W or COM 200 or 200W. Examination of ethical standards and practices of the mass media. Includes development of ethical decision-making skills. Credit will not be awarded for both BEM 315 and COM 415.

**BEM 425. Electronic Media Operations. (3 Credits)**

A. Prerequisite: BEM 200 or 200W or COM 200 or COM 200W. Study of the issues that impact managing, programming and operating a media enterprise, including federal regulations.

**BEM 445. Broadcast and Cable Promotion. (3 Credits)**

I, II. Formerly COM 445. Prerequisite: BEM 295. Study of broadcast and/or cable promotion in the areas of writing, production, marketing, and public relations. Includes exercises in promotions. Credit will not be awarded for both BEM 445 and COM 445.

**BEM 453. Advanced Screenwriting. (3 Credits)**

(3) I, II. Prerequisites: BEM 353W or departmental approval. Writing and marketing the screenplay for television and film. Emphasis is placed on structuring and composing the screenplay for advanced writers. Open to all majors.

**BEM 460. Advanced Film Genre:\_\_\_\_. (3 Credits)**

I, II. Detailed study of the types of motion pictures. Requires independent research, extended analysis, and critical evaluation of films. May be retaken to a maximum of six hours with different course content. May not be taken concurrently with BEM 260. 2 Lec/2 Lab.

**BEM 471. Media Sales. (3 Credits)**

A. Previously COM 471. Prerequisites: ENG 102, or 105(B) or HON 102. Problems and practices of both print and electronic media sales. Includes case studies in both print and broadcast sales development (local, regional, and national), pricing, production, promotion, and basic sales campaigns. Credit will not be awarded to students who have credit for COM 471.

**BEM 491. Senior Seminar. (2 Credits)**

I, II. Prerequisites: completion of 90 hours. Co-requisite: At least one hour from BEM 349 or 343 or 398. Evaluates students' progress toward a career in mass communications, especially the development of an electronic portfolio, and develops job search strategies and skills. Includes assessment of instruction and curriculum.

**BEM 495. Video Production III. (4 Credits)**

I, II. Prerequisite: BEM 395 or 370. Advanced study of video production and direction, combining studio and field work. Includes writing program proposals, scripts, and shooting schedules. Programs produced outside normal class hours. 3 Lec/3 Lab.

**BEM 499. Independent Study in Electronic Media. (1-4 Credits)**

A. Prerequisite: Student must consult with the faculty supervisor and have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of four hours.

**Communication Studies****CMS 100. Introduction to Human Communication. (3 Credits)**

I, II. Learn to effectively interact in a variety of social, professional and virtual environments by building self-awareness and social skills. Focus on creating effective other-oriented verbal and nonverbal messages by developing competencies in active listening, responding appropriately, managing conflict, communicating empathically, and creating professional presentations. Gen.Ed. E-1C [OC].

**CMS 100Z. Intro to Human Communication. (3 Credits)**

I, II. An introduction to the study of human communication. Overview of major topics in contemporary theories of intrapersonal, interpersonal, small group, and public communication. Gen. Ed. Element 1C.

**CMS 200. Interpersonal Communication. (3 Credits)**

I, II. A theoretical and practical study of interpersonal communication. Students will explore the influence of technology on relationships and will learn strategies to enhance interpersonal relationships through self-disclosure, verbal and nonverbal messages, and effective conflict management. Gen. Ed. E-5B.

**CMS 205W. Advocacy and Opposition. (3 Credits)**

I, II. Prerequisites: ENG 102 or 102R, or ENG 105(B), or HON 102. The study of the techniques and principles of formal argumentative discourse including developing, presenting, defending, opposing, and analyzing positions on controversial questions through research, writing and oral communication. Emphasis on the use of online mediums for promoting and opposing ideas. Credit will not be awarded for both CMS 205W and CMS 205.

**CMS 210. Public Speaking. (3 Credits)**

I, II. Principles of and practice in the art of public speaking. Study of the invention, organization, style, delivery, and audience adaptation of informative, persuasive, and commemorative speeches. Gen. Ed. Element 1C. Credit will not be awarded to students who have credit for CMS 215.

**CMS 210Z. Public Speaking. (3 Credits)**

I, II. Principles of and practice in the art of public speaking. Study of the invention, organization, style, delivery, and audience adaptation of informative, persuasive, and commemorative speeches. Gen. Ed. Element 1C.

**CMS 215. Business and Professional Presentations. (3 Credits)**

(3) A. Students develop and practice multiple types of presentations vital for the professional arena. Learn the skills associated with effective verbal and nonverbal delivery, how to create appealing visual aids, how to motivate and inspire others through persuasive speaking, and how to deliver technical information clearly and understandably. Credit will not be awarded to students who have credit for CMS 210. Gen. Ed. E-1C.

**CMS 275. Applied Organizational Communication Skills. (3 Credits)**

(3) A. Study of applied communication skills for professionals in organizational contexts. Develop communication skills in conducting interviews, engaging in performance evaluations, creating resumes, managing a professional online presence and in using appropriate business etiquette. Credit will not be awarded for both CMS 250 and CMS 275.

**CMS 302. Social Media Messaging for Org. (3 Credits)**

Prerequisites: ENG 102, ENG 102R, ENG 105(B), or HON 102. An introduction to the development, execution, and evaluation of persuasive and informative messaging used by organizations to share information using various social media platforms. Real world organizations are assessed.

**CMS 305. Research Design in Communication Studies. (3 Credits)**

I, II. Prerequisites: CMS 205W. Introduction to the philosophy, methods, practice and everyday application of communication research. Topics include reading, summarizing, and evaluating academic literature, and using information technology in the collection, organization, interpretation, and presentation of data in a scholarly or workplace context.

**CMS 310. Team Building and Small Group Communication. (3 Credits)**

I, II. Prerequisites: CMS 200. Study the role of communication in the development of group norms, roles, leadership styles, problem-solving techniques and decision-making techniques in team building and small group interactions in both face to face and virtual team environments.

**CMS 315. Communication Studies Practicum. (1-3 Credits)**

I, II. Prerequisite: Instructor approval. Practical field experiences that allow a student to observe and document how working professionals perform their job responsibilities. Students will also participate to a limited extent in performing tasks under supervision by program professors and on-site staff. May be retaken for a maximum of six hours.

**CMS 320. Persuasion. (3 Credits)**

A. Prerequisites: ENG 101 or 101R and 102. Study of contemporary research and theories of persuasion and social influence. Practice in the design, analysis, and implementation of persuasive messages.

**CMS 325. Communication in Conflict Management. (3 Credits)**

I, II. Prerequisites: Junior or senior standing or departmental approval. study of the human communication and technology components contributing to the introduction, continuation, and resolution of conflict in personal and professional relationships. Learn to identify root causes of conflict and practice communication strategies for productive conflict management including active listening, perception-checking, the healthy expression of emotions, power balancing, and problem-solving.

**CMS 335. Advanced Public Speaking. (3 Credits)**

(3) I, II. Prerequisite: CMS 210 or departmental approval. An advanced study of the invention, organization, style, delivery, and audience adaption of various types of speeches.

**CMS 349. Applied Learning in Communication Studies. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349A. Cooperative Study: Communication Studies. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349B. Cooperative Study: Communication Studies. (1-8 Credits)**

A. work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349C. Cooperative Study: Communication Studies. (1-8 Credits)**

A. Work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349D. Cooperative Study: Communication Studies. (1-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349E. Cooperative Study: Communication Studies. (1-8 Credits)**

**CMS 349F. Cooperative Study: Communication Studies. (1-8 Credits)**  
A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours; eight, associate, sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**CMS 350. Organizational Communication. (3 Credits)**

I. Prerequisite: ENG 101 or 101R. An introduction to the principles, theories, and practice of communication within organizations. Emphasis will be placed on different perspectives of organizational communication, in addition to emergent issues such as newcomer assimilation, organizational culture, networks, decision-making, emotion diversity, and technology, and values.

**CMS 353. Health Communication. (3 Credits)**

A. Prerequisites: CMS 100 or CMS 210. A survey of recent development in the field of health communication. Emphasis is on the role of interpersonal communication and family narrative in the health care setting, patient provider interactions and multicultural health awareness.

**CMS 375. Intercultural Communication. (3 Credits)**

A. Prerequisites: CMS 100 or CMS 200 or CMS 210 or CMS 215. A practical and theoretical study of the basic elements of interpersonal communication and culture as the two relate to one another. Enhance cross-cultural communication competencies and strengthen understanding of diverse cultural perspectives. Gen. Ed. E-6.

**CMS 380. Communication and Recruitment. (3 Credits)**

A. Prerequisites: Departmental approval. This course is designed to provide students with both theory and methods in recruitment, using and improving their interpersonal communication and public speaking skills. The class will utilize extensive role-playing activities to develop these skills.

**CMS 400. Communication and Gender. (3 Credits)**

A. Prerequisites: CMS 200, 205 or 205W, and 210. Focuses on relationships between communication and gender, race, and social class. Examines ways in which gender roles are created and recreated in society and in our personal and professional relationships.

**CMS 410. Human Communication Theory. (3 Credits)**

A. Prerequisite: CMS 200. Prerequisite or Corequisite: CMS 305. Examine key communication theories that describe, explain and/or predict human communication behaviors. Emphasis placed on the application of theories to everyday life.

**CMS 420. Negotiation. (3 Credits)**

A. This course combines communication theory and practice in resolving conflicts using the negotiation process. Extensive role-playing activities will be utilized to develop these skills.

**CMS 435. Family Communication. (3 Credits)**

A. Prerequisite: CMS 200. Introduction to the literature and research on communication in the family. Emphasis on the role of communication in creating and maintaining healthy marriages and families. Topics include exploring communication in the family life cycle, managing conflict and stress in the family, and using communication to manage the work/family balance in everyday life.

**CMS 445. Advanced Interpersonal Communication. (3 Credits)**

A. Prerequisite: CMS 200 and 205W. Analysis of theory and research in professional and personal communication. Topics include relationship messages, stages of interpersonal relationships, intimate dialogue, the dialogue of distance, maintaining relationships through dialogue, and developing effective communication in relationships.

**CMS 450. Mediation. (3 Credits)**

A. Prerequisites: CMS 325 or departmental approval. The study of mediation as an alternative dispute resolution technique. Involves the analysis and practice of communication skills applicable to the mediation process. Extensive mediation role-plays are an integral part of the course.

**CMS 485S. Communication Training and Development. (3 Credits)**

I, II. Formerly CMS 485. Prerequisite: CMS 200, 205W, 250 and 300. An introduction to the field of communication training and development for corporate, industrial, institutional, medical or educational settings. Students will practice training techniques in on-site situations. Credit will not be awarded to students who have credit for CMS 406 or 485.

**CMS 490. Special Topics in Communication. (1-3 Credits)**

A. Presentation of course material of a timely, specialized, or topical nature. Specific course orientation will appear beside title. May be retaken to a maximum of nine hours if subject matter is different each time. Credit will not be awarded for both CMS 495 and CMS 490 Special Topics in Leadership.

**CMS 495. Communication, Leadership, and Change. (3 Credits)**

I, II. Prerequisite: Prerequisites: Senior standing and CMS 305. A capstone course that helps students reflect on and apply their learned experiences in communication with an emphasis on leadership. Students integrate learned theory and experiences with real world situations. Completion of a capstone project is required.

**CMS 499. Independent Study in Communication Studies. (1-6 Credits)**

I, II. Individual research and reading on a specified speech communication subject. Regular consultation and final paper or performance required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

**Public Relations****PUB 305. Public Relations Research. (3 Credits)**

A. Prerequisite: PUB 375 or departmental approval. Introduction to the research process, research approaches, basic statistics, and applied research in public relations practice. Topics include evaluating scholarly literature, and collecting, interpreting, and applying relevant data in PR practice. Credit will not be awarded for students who have credit for PUB 420, COM 420, or CMS 305.

**PUB 320. Design for Mass Media. (3 Credits)**

I, II. Formerly COM 320 A-H. Introductory design course for non-designers presenting concepts, principles, terminology, tools, and techniques in computer-based design and production within public relations. Emphasis on media channels/audiences. Credit will not be awarded to students who have credit for JOU 320.

**PUB 325. Advertising Strategy and Practice. (3 Credits)**

Prerequisites: ENG 102 or ENG 105 with a B or HON 102. Introduction to copywriting and production for electronic, print and other advertising media. Emphasis on advertising strategy, motivation, appeals, visualization and layout. Applies research and communication theory to creation of advertising. Credit will not be awarded for both PUB 325 and PUB 325S, COM 325 or 325S.

**PUB 325S. Advertising Strategy and Practice. (3 Credits)**

Prerequisites: ENG 102 or ENG 105 with a B or HON 102. Using a service-learning-based approach, students learn copywriting and production for electronic, print and other advertising media. Topics included advertising strategy and practice, motivation, appeals, visualization and layout, applied research and communication theory. Credit will not be awarded for both PUB 325S and PUB 325, COM 325 or 325S.

**PUB 349. Applied Learning in Public Relations. (0.5-8 Credits)**

A. Prerequisites: junior standing, ≥B average in all courses within the department, and departmental approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349A. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Prerequisites: junior standing, ≥B average in all courses within the department, and departmental approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349B. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349C. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Work under faculty and field supervisors in cooperative placements related to the student's academic status. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349D. Co-op or Appl Lrn: Public Rel. (0.5-8 Credits)**

A. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349E. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Prerequisite: junior standing. "B" average in all courses within the department and department approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349F. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Prerequisite: junior standing, "B" average in all courses within the department, and departmental approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirement within the department.

**PUB 349G. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Prerequisites: junior standing, "B" average in all courses within the department, and departmental approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 375. Public Relations Principles. (3 Credits)**

I, II. Survey of principles and practices in disseminating information to internal and external audiences in business, industrial, educational, social and government agencies.

**PUB 380. Public Relations Writing. (3 Credits)**

I, II. Prerequisites: BEM 203 or COM 201 and PUB 375. Practice in public relations planning and writing for publications, media releases and other mass media materials for the public and special interest groups, including institutions, governments, and other organizations. Also includes writing in business formats.

**PUB 385. PR Event Planning & Management. (3 Credits)**

A. Prerequisite: PUB 375 with a grade of  $\geq C$  or higher. Hands-on experience identifying a public relations goal and supporting it with a special event. Also includes specific planning procedures, communication methods and evaluation procedures. Credit will not be awarded for both PUB385 and PUB385S.

**PUB 385S. PR Event Planning & Management. (3 Credits)**

A. Prerequisite: PUB 375 with a grade of "C" or higher. Using a service-learning-based approach, students receive hands-on experience planning and managing an event supporting public relations goals specified by an actual client. Includes specific planning, execution and evaluation procedures. Credit will not be awarded for both PUB 385 and PUB 385S.

**PUB 390. Fundraising. (3 Credits)**

I, II. Prerequisite: PUB 375 or department approval. An overview of fundraising, including planning, organization, management, marketing, and the common sense needed to raise money from private sources. Credit will not be awarded for both PUB 390 and COM 390.

**PUB 395. Sports Promotion. (3 Credits)**

II. Prerequisites: ENG 102, 102R, ENG 105(B) or HON 102. Behind the scenes look at sports industry elements including public relations, sales, promotions, sponsorships, branding, marketing, social media and risk management. Credit will not be awarded for both PUB 395 and PUB 400 (Special Topics: Sports Promotion).

**PUB 400. Studies in Public Relations. (1-3 Credits)**

A. Prerequisite: departmental approval. Study of specific areas of Public Relations through a course examining timely or topical concerns in the field. Specific topic included in schedule. May be retaken to maximum of nine hours.

**PUB 410. Social Media and Public Relations. (3 Credits)**

(3) I, II. Prerequisite: PUB 375. Development and application of social media forms an design. Emphasis on social media as a strategic public relations tool in terms of institutional, social, and technological impact. Includes working with community partner(s) to strengthen an online presence.

**PUB 410S. Social Media & Public Rel. (3 Credits)**

I, II. Introduction to social media forms an design. Emphasis on social media as a public relations tool in terms of institutional, social, and technological impact. Includes working with community partner(s) to create an online presence.

**PUB 412. Web Marketing and Development. (3 Credits)**

I, II. Prerequisite: PUB 320, BEM 320 or JOU 320 with a grade of C or higher. An introduction to the communication theory, strategies, tools and techniques of Internet marketing and effective Web development. Emphasis on interactivity theory, interactive applications and functionality, graphics, and use of HTML and CSS. Credit will not be awarded to students who have credit for BEM 412 or JOU 412.

**PUB 415S. Public Relations in Performing Arts. (3 Credits)**

(3) I,II. Using a service-learning approach, students apply principles, traditional and contemporary tools, best practices, case studies, strategic planning and execution, and public relations management strategies toward a career in the performing arts or non-profit organizational management.

**PUB 420. Mass Communications Research. (3 Credits)**

I, II. Prerequisite: PUB 380(C) or departmental approval. Introduction to the research process, research approaches, basic statistics, and applied research in the field of mass communications. Credit will not be awarded for both PUB 420 and either COM 420 or CMS 305.

**PUB 425. Crisis & Risk Communication. (3 Credits)**

Prerequisites: PUB 375. Communicating the correct messages through proper methods and channels before, during, and after a crisis. Exploration of social media in crises. Identification and management of appropriate publics for crisis communication. Emphasis of avoiding miscommunication during crises, emphasis on follow-up after crises. Credit will not be awarded to students who have credit for PUB 400 Special Topics: Crisis Management.

**PUB 470. Public Relations Internship. (1-3 Credits)**

I, II. Prerequisites: BEM 203 or COM 201, PUB 375, PUB 380, 2.25 GPA for major and supporting courses. Supervised practical experience in a public relations operation. May be taken to a maximum of three hours.

**PUB 475. Advanced Public Relations. (3 Credits)**

A. Prerequisite: PUB 380. Emphasizes a management approach and application of the four-step PR process to solving public relations problems through planning, design, and production of print, audiovisual, and broadcast materials used in public relations. Includes public relations case studies and problems.

**PUB 480. Integrated Communications. (3 Credits)**

A. Prerequisite: PUB 375 with a grade of  $\geq C$  or higher. Prerequisite or Corequisite: PUB 475. Examination of the interactions within an organization's overall communication efforts, including public relations, industrial and graphic design, organizational communication, and other related initiatives.

**PUB 490. Public Relations Campaigns. (3 Credits)**

A. Prerequisites: BEM 320 or PUB 320(C), PUB 475(C), and PUB 305(C). Application of research, planning, strategies, and evaluations to a public relations campaign. Includes budgeting and scheduling of campaigns. Credit will not be awarded for both PUB 490 and PUB 490S.

**PUB 490S. Public Relations Campaigns. (3 Credits)**

A. Prerequisite: BEM 320 or PUB 320(C), PUB 475(C), and PUB 305(C). Using a service-learning-based approach, students research, plan and prepare an integrated public relations campaign for a specified local business or organization client. Credit will not be awarded for both PUB 490 and PUB 490S.

**PUB 491. Senior Seminar in Public Relations. (1 Credit)**

I, II. Prerequisites: completion of 90 hours and PUB 380. Evaluates students' progress toward a career in public relations, especially the development of a portfolio, and develops job search strategies and skills. Includes assessment of instruction and curriculum. Credit will not be awarded to students who have credit for COM 491.

**PUB 499. Independent Study in Public Relations. (1-3 Credits)**

A. Prerequisite: Student must consult with the faculty supervisor and have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of three hours.

**PUB 520. Integrated Public Relations Strategies. (3 Credits)**

A. Examines integrated public relations skills used to achieve organizational objectives. Emphasizes strategic planning including forecasting and communicating future business plans. Includes an in-depth look at relevant communication theories explaining common public relations problems and strategies.

**PUB 530. Sports Information. (3 Credits)**

A. Study of the role and function of the sports information director. Includes public relations techniques applied to sports information: news releases, publications programs, office and staff organization, time utilizations, news media and formats.

# Broadcasting and Electronic Media, Bachelor of Arts with a Concentration in Broadcasting and Electronic Media (B.A.)

## Program Objectives

Graduates of the Broadcasting and Electronic Media program pursue careers in the media industry, as well as in cable companies, industrial and corporate video facilities, advertising agencies, and production houses. Students in the **BEM Concentration** must demonstrate excellence in their ability to produce, direct, write, perform, manage, and create commercials, public service announcements, sports programs, promotional videos, music videos, and entertainment programs for television, the Internet or other platforms. Students in the **Film Techniques and Technology Concentration** must demonstrate excellence in writing, visualizing, shooting, editing, and cinematic storytelling. Students in the **Multimedia Journalism Concentration** must demonstrate excellence in gathering information, writing, news production, and visual storytelling. Students will use cross-platform skills within journalistic standards and present news and commentary to a diverse audience. Our objectives are to train students for a variety of fields including traditional and emerging media, businesses and corporations, government public information, advocacy groups, and non-profit organizations. They will develop an understanding of the meaning of First Amendment freedom in the United States, and the social, political, and ethical responsibilities they will have as professionals.

## Program Requirements

CIP Code: 09.0702

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT - Broadcast and Electronic Media majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		

BEM 491	Senior Seminar	
Choose from at least one hour of the following:		
BEM 343	Audio Practicum	
BEM 349	Applied Learning in Broadcasting	
BEM 398	Electronic Video Practicum	

### Major Requirements

<i>Core Courses</i>		
BEM 200	Mass Media and Society	3
BEM 202	Information Gathering	3
BEM 203	introduction to Media Writing	3
BEM 295	Video Production	4
BEM 325	Photojournalism	3
BEM 349	Applied Learning in Broadcasting	1
BEM 395	Video Production II	4
BEM 405	Media Law	3
BEM 491	Senior Seminar	2
BEM 495	Video Production III	4
PUB 320	Design for Mass Media	3

### Concentrations

Students must select one of the following Concentrations:	18-24
Broadcasting and Electronic Media	
Multimedia Journalism	
Film Techniques & Technology	

### Free Electives

Choose from 32-33 hours of free electives	32-33
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<b>Total Hours</b>	<b>120-127</b>
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### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BEM 300	Performance in Electronic	3
	Choose from fifteen hours from BEM electives	15
<b>Total Hours</b>		<b>18</b>

# Broadcasting and Electronic Media, Bachelor of Arts with a Concentration in Film Techniques & Technology (B.A.)

## Program Objectives

Graduates of the Broadcasting and Electronic Media program pursue careers in the media industry, as well as in cable companies, industrial and corporate video facilities, advertising agencies, and production houses. Students in the **BEM Concentration** must demonstrate excellence in their ability to produce, direct, write, perform, manage, and create commercials, public service announcements, sports programs, promotional videos, music videos, and entertainment programs for television, the Internet or other platforms. Students in the **Film Techniques and Technology Concentration** must demonstrate excellence in writing, visualizing, shooting, editing, and cinematic storytelling. Students in the **Multimedia Journalism Concentration** must demonstrate excellence in gathering information, writing, news production, and visual storytelling. Students will use cross-platform skills within journalistic standards and present news and commentary to a diverse audience. Our objectives are to train students for a variety of fields including traditional and emerging media, businesses and corporations, government public information, advocacy groups, and non-profit organizations. They will develop an understanding of the meaning of First Amendment freedom in the United States, and the social, political, and ethical responsibilities they will have as professionals.

## Program Requirements

CIP Code: 09.0702

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT - Broadcast and Electronic Media majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		

BEM 491	Senior Seminar	
Choose from at least one hour of the following:		
BEM 343	Audio Practicum	
BEM 349	Applied Learning in Broadcasting	
BEM 398	Electronic Video Practicum	

### Major Requirements

<i>Core Courses</i>		
BEM 200	Mass Media and Society	3
BEM 202	Information Gathering	3
BEM 203	introduction to Media Writing	3
BEM 295	Video Production	4
BEM 325	Photojournalism	3
BEM 349	Applied Learning in Broadcasting	1
BEM 395	Video Production II	4
BEM 405	Media Law	3
BEM 491	Senior Seminar	2
BEM 495	Video Production III	4
PUB 320	Design for Mass Media	3

### Concentrations

Students must select one of the following Concentrations:	18-24
Broadcasting and Electronic Media	
Multimedia Journalism	
Film Techniques & Technology	

### *Free Electives*

Choose from 32-33 hours of free electives	32-33
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<b>Total Hours</b>	<b>120-127</b>
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## G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BEM 350	Cinema History I	3
BEM 351	Cinema History II	3
BEM 352	Film Techniques & Technology	3
BEM 353W	The Art and Craft of Screenwriting	3
BEM 370	Electronic Cinema Production	4

BEM 396	Motion Graphics	3
<b>Total Hours</b>		<b>19</b>

# Broadcasting and Electronic Media, Bachelor of Arts with a Concentration in Multimedia Journalism (B.A.)

## Program Objectives

Graduates of the Broadcasting and Electronic Media program pursue careers in the media industry, as well as in cable companies, industrial and corporate video facilities, advertising agencies, and production houses. Students in the **BEM Concentration** must demonstrate excellence in their ability to produce, direct, write, perform, manage, and create commercials, public service announcements, sports programs, promotional videos, music videos, and entertainment programs for television, the Internet or other platforms. Students in the **Film Techniques and Technology Concentration** must demonstrate excellence in writing, visualizing, shooting, editing, and cinematic storytelling. Students in the **Multimedia Journalism Concentration** must demonstrate excellence in gathering information, writing, news production, and visual storytelling. Students will use cross-platform skills within journalistic standards and present news and commentary to a diverse audience. Our objectives are to train students for a variety of fields including traditional and emerging media, businesses and corporations, government public information, advocacy groups, and non-profit organizations. They will develop an understanding of the meaning of First Amendment freedom in the United States, and the social, political, and ethical responsibilities they will have as professionals.

## Program Requirements

CIP Code: 09.0702

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
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### University Graduation Requirements

General Education		36
<i>Student Success Seminar</i>		
Student Success Seminar (waived for transfers with 30+ hrs.)		1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Broadcast and Electronic Media majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		

BEM 491	Senior Seminar	
Choose from at least one hour of the following:		
BEM 343	Audio Practicum	
BEM 349	Applied Learning in Broadcasting	
BEM 398	Electronic Video Practicum	

### Major Requirements

<i>Core Courses</i>		
BEM 200	Mass Media and Society	3
BEM 202	Information Gathering	3
BEM 203	introduction to Media Writing	3
BEM 295	Video Production	4
BEM 325	Photojournalism	3
BEM 349	Applied Learning in Broadcasting	1
BEM 395	Video Production II	4
BEM 405	Media Law	3
BEM 491	Senior Seminar	2
BEM 495	Video Production III	4
PUB 320	Design for Mass Media	3

### Concentrations

Students must select one of the following Concentrations:	18-24
Broadcasting and Electronic Media	
Multimedia Journalism	
Film Techniques & Technology	

### *Free Electives*

Choose from 32-33 hours of free electives	32-33
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<b>Total Hours</b>	<b>120-127</b>
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## G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
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### Certification Courses

BEM 300	Performance in Electronic	3
BEM 301	Multimedia Newswriting	3
BEM 302	Journalism Practicum <sup>1</sup>	3
BEM 305W	Storytelling & Feature Writing	3
BEM 401	Multimedia Field Production	3

BEM 415	Media Ethics	3
<b>Total Hours</b>		<b>18</b>

1

Students are required to take a total of three credits of BEM 302 Journalism Practicum for the major. Students may take one credit per semester.

## Broadcasting and Electronic Media, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
BEM 202	Information Gathering	3
BEM 295	Video Production	4
BEM 320	Digital Publishing Design	3
BEM 395	Video Production II	4
BEM 405	Media Law	3
BEM 425	Electronic Media Operations	3
BEM 349	Applied Learning in Broadcasting	1
BEM 491	Senior Seminar	2
<b>Total Hours</b>		<b>23</b>

Courses counted toward a major may not be counted toward the minor in broadcasting and electronic media. Substitute courses will be selected by the student and the departmental advisor.

## Communication in the Workplace, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
CMS 200	Interpersonal Communication	3
Choose from one of the following:		3
CMS 210	Public Speaking	
CMS 215	Business and Professional Presentations	
CMS 205W	Advocacy and Opposition	
CMS 275	Applied Organizational Communication Skills	
CMS 310	Team Building and Small Group Communication	3
CMS 350	Organizational Communication	3
Choose from two of the following:		6
CMS 302	Social Media Messaging for Org	
CMS 325	Communication in Conflict Management	
CMS 353	Health Communication	
CMS 375	Intercultural Communication	
CMS 420	Negotiation	
<b>Total Hours</b>		<b>18</b>

## Communication Studies, Bachelor of Arts (B.A.)

### Program Objectives

Graduates of the Communication Studies (CMS) program pursue careers in labor relations, human resources, tourism, banking, corporate relations, sales, and many other professional contexts. Communication Studies students learn how to successfully demonstrate and promote effective human communication, including relationship building and maintenance, resolving conflict, persuading and negotiating, professional speaking, communication training and development, and leadership skills. CMS students must exhibit cognitive and behavioral learning by demonstrating

- sufficient knowledge about various human communication processes and
- satisfactory skills related to communication competency.

### Program Requirements

CIP Code: 09.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT - Communication majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

CMS 495	Communication, Leadership, and Change	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CMS 200	Interpersonal Communication	3
CMS 205W	Advocacy and Opposition	3
CMS 210	Public Speaking	3
or CMS 215	Business and Professional Presentations	
CMS 250		3
or CMS 275	Applied Organizational Communication Skills	
CMS 305	Research Design in Communication Studies	3
CMS 310	Team Building and Small Group Communication	3
CMS 350	Organizational Communication	3
CMS 375	Intercultural Communication	3
CMS 410	Human Communication Theory	3
CMS 495	Communication, Leadership, and Change	3
<i>Communication Electives</i>		
Choose from nine hours of upper-division CMS courses (300 or 400 level)		9
<i>Free Electives</i>		
Choose from 44 hours of free electives		44
<b>Total Hours</b>		<b>120</b>

## Communication Studies, Minor Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
CMS 200	Interpersonal Communication	3
Choose from one of the following:		3
CMS 210	Public Speaking	
CMS 215	Business and Professional Presentations	
CMS 205W	Advocacy and Opposition	
CMS 275	Applied Organizational Communication Skills	
CMS 310	Team Building and Small Group Communication	3
CMS 350	Organizational Communication	3
Choose from two of the following:		6
CMS 302	Social Media Messaging for Org	
CMS 325	Communication in Conflict Management	
CMS 353	Health Communication	
CMS 375	Intercultural Communication	
<b>Total Hours</b>		<b>18</b>

## Communication Studies, University Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
CMS 200	Interpersonal Communication	3
CMS 205W	Advocacy and Opposition	3

CMS 210	Public Speaking	3
or CMS 215	Business and Professional Presentations	
CMS 250		3
or CMS 275	Applied Organizational Communication Skills	
CMS 310	Team Building and Small Group Communication	3
CMS 325	Communication in Conflict Management	3
CMS 350	Organizational Communication	3
CMS 375	Intercultural Communication	3
<b>Total Hours</b>		<b>24</b>

## Dispute Resolution, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
CMS 205W	Advocacy and Opposition	3
CMS 325	Communication in Conflict Management	3
CMS 375	Intercultural Communication	3
CMS 420	Negotiation	3
<b>Total Hours</b>		<b>12</b>

## Multimedia Journalism, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
BEM 202	Information Gathering	3
BEM 203	introduction to Media Writing	3
BEM 295	Video Production	4
BEM 320	Digital Publishing Design	3
BEM 395	Video Production II	4
BEM 349	Applied Learning in Broadcasting	1
BEM 425	Electronic Media Operations	3
BEM 491	Senior Seminar	2
<b>Total Hours</b>		<b>23</b>

## Public Relations, Bachelor of Arts (B.A.)

### Program Objectives

Graduates of the Public Relations program pursue careers with corporations, non-profits, educational, governmental, media, and public relations and advertising agencies. Managing the communication between an organization and its publics, practitioners write news releases, video news releases, newsletters, speeches, annual reports, advertising copy, promotional pieces, feature stories, and social media entries, to name a few. Public Relations practitioners provide appropriate counsel in employee, community, financial, consumer, government, and media relations, as well as crisis communication, all based on ethical principles set forth by the Public Relations Society of America (PRSA). They manage social media accounts, plan events, fundraise, and address public concerns. Students must demonstrate excellence in writing, research, planning, communication, and evaluation of public situations strategies using a variety of platforms to meet the standards for a public

relations education as published by PRSA. One of only 40 Certified Bachelor's Degree Public Relations Programs in the World!

## Program Requirements

CIP Code: 09.0902

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT - Public Relations majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)	
PUB 490	Public Relations Campaigns	
	or PUB 490S Public Relations Campaigns	
<b>Major Requirements</b>		
<i>Core Courses</i>		
BEM 295	Video Production	4
BEM 202	Information Gathering	3
BEM 203	introduction to Media Writing	3
BEM 305W	Storytelling & Feature Writing	3
BEM 405	Media Law	3
PUB 305	Public Relations Research	3
	Choose from one of the following:	3
ECO 120	Economic Reasoning and Issues	
ECO 130	Contemporary Economic Problems	

ECO 230	Fundamentals of Microeconomics	
ECO 231	Fundamentals of Macroeconomics	
MKT 301	Principles of Marketing (NB)	3
PUB 320	Design for Mass Media	3
	or BEM 320 Digital Publishing Design	
PUB 375	Public Relations Principles	3
PUB 380	Public Relations Writing	3
PUB 390	Fundraising	3
PUB 410	Social Media and Public Relations	3
	or PUB 410S Social Media & Public Rel	
PUB 470	Public Relations Internship	1
	or PUB 349 Applied Learning in Public Relations	
PUB 475	Advanced Public Relations	3
PUB 490	Public Relations Campaigns	3
	or PUB 490S Public Relations Campaigns	
PUB 491	Senior Seminar in Public Relations	1
PUB 425	Crisis & Risk Communication	3

#### Electives

Choose from six hours of the following:		6
BEM 415	Media Ethics	
BEM 325	Photojournalism	
COM 400	Studies in Communications:___	
PUB 325	Advertising Strategy and Practice	
	or PUB 325S Advertising Strategy and Practice	
PUB 385	PR Event Planning & Management	
	or PUB 385SPR Event Planning & Management	
PUB 400	Studies in Public Relations	
PUB 415S	Public Relations in Performing Arts	
PUB 480	Integrated Communications	
PUB 499	Independent Study in Public Relations	
PUB 520	Integrated Public Relations Strategies	
MGT 301	Principles of Management (NB)	

#### Supporting Course Requirements

BEM 200	Mass Media and Society	3
	or BEM 200W Mass Media and Society	

Choose from one of the following, any of which will fulfill Element 5B:  
G

ANT 120	Introduction to Cultural Anthropology	
POL 100	Principles of Politics and Government	
POL 101	Introduction to American Government	
PSY 200	Introduction to Psychology	
PSY 200W	Introduction to Psychology: Writing Intensive	
SOC 131	Introductory Sociology	

#### Free Electives

Choose from 23 hours of free electives		23
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**Total Hours** **120**

#### G

Course also satisfies a General Education element. Hours are included within the 36 hour General Education requirement above.

## Public Relations, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
BEM 200 or BEM 200W	Mass Media and Society	3
BEM 203	introduction to Media Writing	3
BEM 305W	Storytelling & Feature Writing	3
PUB 320	Design for Mass Media	3
PUB 375	Public Relations Principles	3
PUB 380	Public Relations Writing	3
PUB 475	Advanced Public Relations	3
<b>Total Hours</b>		<b>21</b>

Substitute courses will be selected by the student and the departmental advisor.

## Sports Communication, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
BEM 202	Information Gathering	3
BEM 295	Video Production	4
BEM 302	Journalism Practicum	1
BEM 330	Sports Writing and Reporting	3
PUB 395	Sports Promotion	3
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3
ESS 530	Sport Communications	3
<b>Total Hours</b>		<b>20</b>

## Visual Media, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
BEM 295	Video Production	4
BEM 395	Video Production II	4
BEM 491	Senior Seminar	1
BEM 320 or PUB 320	Digital Publishing Design Design for Mass Media	3
BEM 325	Photojournalism	3
BEM 412	Multimedia Web Development	3
<b>Total Hours</b>		<b>18</b>

Courses counted toward a major may not be counted toward the minor in visual media. Substitute courses will be selected by the student and the departmental advisor.

## School of Music

### Director

Dr. Keith Talley  
(859) 622-3266  
Foster 101

### Faculty

R. Byrd, J. Campbell, T. Couvillon, R. Crosby, S. Darville, D. Davis, A. Ghent, N. Jasinski, M. Johnson, K. Kean, J. Koontz, HY. Kwok, L. Nelson, A. Putnam, B. Scarambone, M. Sehmman, N. Siler, C. Streetman, A. Sutherland, K. Talley, J. Van Fleet, R. Waters, T. Wiggins, J. Willett, and J. Wolf

### Mission Statement

The EKU School of Music provides a relevant and comprehensive music curriculum through individualized attention and student-centered learning. We create a diverse community of musical leaders for the 21st Century who will enhance the fabric of their society, the commonwealth, and beyond through the power of music.

### Bachelor's

- Music, Bachelor of Music with a Concentration in Music Education (B.M.) (p. 404)
- Music, Bachelor of Music with a Concentration in Music Industry Emphasis (B.M.) (p. 407)
- Music, Bachelor of Music with a Concentration in Music Performance (B.M.) (p. 409)
- Music, Bachelor of Music with a Concentration in Music Theory and Composition (B.M.) (p. 411)
- Music, Bachelor of Music with a Concentration in Recording Arts Emphasis (B.M.) (p. 413)

### Minor

- Music, Minor (p. 415)
- Musical Theatre, Minor (p. 415)

### Certificate

- Musical Theatre, Departmental Certificate (p. 415)

## Courses

### Music Education

#### MUE 302. Classroom Music Teaching Methods. (2 Credits)

(2). I. Cross-listed with ELE 303. Prerequisite: Admission to professional education. Co-requisite CED 300. Development of pedagogical skills and methods for teaching music concepts within the framework of a classroom music setting. Credit will not be awarded for both MUE 302 and ELE 303.

#### MUE 378. Teaching Music in Grades P-8. (3 Credits)

(3) II. Cross-listed with EME 378. Prerequisites: admission to professional education, major in music. Co-requisite: CED 400. Developmentally appropriate materials and methods for teaching P-8 music. Credit will not be awarded to students who have credit for EME 378.

**MUE 402. Perf Ensembles Teaching Methods. (2 Credits)**

(2) II. Cross listed with ESE 402. Prerequisite: Admission to professional education. Co-requisite CED 400. Pedagogy for instrumental and vocal performing ensembles in 6th through 12th grade classrooms. Ideas for developing musicianship through hands-on student involvement, ensemble pedagogy and techniques, literature and performance, and incorporation of technology. Credit will not be awarded for both MUE 402 and ESE 402.

**MUE 502. Music Tech Teaching Methods. (2 Credits)**

(2) I. Cross listed with EMS 502. Prerequisite: Instructor approval. Co-requisite: CED 450. Development of strategies and techniques for teaching music through digital pedagogy. Ideas for developing musicianship through hands-on student involvement, as well as the use of technology to aid in instruction and delivery in the P-12 music classroom. Credit will not be awarded for both MUE 502 and MUE 702 and EMS 502/702.

**MUE 579. Music Education: Principles and Practices. (3 Credits)**

(3) I. Cross-listed with ESE 579. Prerequisites: EDF 413 (C) EMS 490 (C), CED 400 (B), admission to professional education. Developmentally appropriate materials and methods for teaching music education in secondary schools. Co-requisite CED 450. Credit will not be awarded to students who have credit for ESE 579.

**Music History****MUH 171. Music Appreciation. (3 Credits)**

I, II. May not count toward a music major or minor. Provides the general college student with a cultural background in music. Masterpieces of music, composers, and techniques presented through listening materials and concert attendance. Gen. Ed. Element 3A.

**MUH 271. Jazz History. (3 Credits)**

I, II. A listening survey course tracing the development of jazz from its roots in the music of West Africa, African American folk music, and European music styles to the present. Gen. Ed. Element 3A.

**MUH 272. Music Literature. (3 Credits)**

I, II. Critical listening and score-reading of the standard repertory of music in Western Civilization from Gregorian plainchant to the Contemporary era. Gen. Ed. Element 3A.

**MUH 273. Survey of American Popular Music. (3 Credits)**

I, II. Survey of American popular music establishing its origins and tracing its development to the present time. Gen. Ed. Element 3A.

**MUH 275. Western Musical Traditions I. (2 Credits)**

I. Prerequisite: MUS 118 or department approval. Survey of Western music traditions from Medieval times through the Baroque period.

**MUH 276W. Western Musical Traditions II. (2 Credits)**

B. Prerequisite: ENG 102, 102R, or HON 102; MUH 275 or departmental approval. Survey of western music traditions from the Classical era to the present.

**MUH 372. Survey of Music History II. (3 Credits)**

II. Prerequisite: MUH 371 or departmental approval. Survey of music history from the Classical era to the present. Gen. Ed. VII (AH).

**MUH 373. The Diverse Worlds of Music. (2 Credits)**

A. Prerequisite: ENG 101(C) or 101R(C). An introduction to the academic study of world music, including musicological analysis and various approaches to the historical and socio-cultural issues regarding global musical traditions.

**Music****MUS 101. Performance Class. (0 Credits)**

(0) I, II. Required of all music majors for six semesters. Passing grade achieved when students have attended total of 16 concert events per semester.

**MUS 107. Class Guitar for Nonmajors. (1 Credit)**

I, II. Instruction in guitar for non-music majors. May be retaken to a maximum of 4 hours.

**MUS 108. Class Voice for Nonmajors. (1 Credit)**

I, II. Instruction in singing for non-music majors. May be retaken to a maximum of 4 hours.

**MUS 110. Beginning Class Piano I. (1 Credit)**

I, II. Prepares non-piano majors to meet Level I Piano Proficiency Examination requirements. Basic keyboard skills, elementary repertoire, and technique. Some music reading ability required. May be retaken to a maximum of two hours.

**MUS 111. Beginning Class Piano II. (1 Credit)**

I, II. Prerequisite: MUS 110 or departmental approval. Continuation of MUS 110. May be retaken to a maximum of two hours.

**MUS 112. Piano I. (1,2 Credits)**

I, II. Corequisite: MUS 225 or 226 or 313; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 113. Vocal Teaching Techniques. (1 Credit)**

A. Techniques and pedagogy for helping the beginning singer to develop fundamental habits of singing, and to become familiar with the vocal instrument; its mechanism, terminology, and techniques. Class restricted to music majors only.

**MUS 116. Classroom Instrument Techniques. (1 Credit)**

A. Techniques and pedagogy for incorporating traditional classroom instruments as a vehicle for teaching music. Topics will include ukulele, guitar, barred instruments, and recorder. Class restricted to music majors only.

**MUS 117. Applied Music Theory I. (3 Credits)**

I. An introductory study of the basic materials and organization of music through analysis, composition, aural perception, and performance.

**MUS 118. Applied Music Theory II. (3 Credits)**

II. Prerequisite: MUS 117 with a minimum grade of "C". Continuation of MUS 117. Further study of the basic materials and organization of music through analysis, composition, aural perception, and performance. Class restricted to music majors only.

**MUS 122. Voice I. (1,2 Credits)**

I, II. Corequisite: MUS 225 or 226; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 127. Opera Workshop. (1 Credit)**

I, II. Prerequisite: instructor approval. Preparation and presentation of opera scenes and complete works. All phases of performance and technical procedures of staging, costumes, and management. Course may be retaken.

**MUS 132A. Violin I. (1-2 Credits)**

I, II. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in violin. May be retaken to a maximum of four hours.

**MUS 132B. Viola I. (1-2 Credits)**

I, II. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in viola. May be retaken to a maximum of four hours.

**MUS 132C. Cello. (1-2 Credits)**

I, II. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in violin/cello. May be retaken to a maximum of four hours.

**MUS 132D. String Bass I. (1-2 Credits)**

I, II. Corequisite: MUS 235 or 236 or 255A; course open to music majors or minors only. One or two lessons per week. Instruction available in string bass. May be retaken to a maximum of four hours.

**MUS 132F. Guitar I. (1-2 Credits)**

I, II. Corequisite: MUS 257; course open to music majors or minors only. One or two lessons per week. Instruction available in guitar. May be retaken to a maximum of four hours.

**MUS 142. Organ I. (1,2 Credits)**

I, II. Corequisite: MUS 225 or MUS 226 or MUS 313; course open to majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 145A. Trumpet I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in trumpet. May be retaken to a maximum of four hours.

**MUS 145B. French Horn. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in French horn. May be retaken to a maximum of four hours.

**MUS 145C. Euphonium I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in euphonium. May be retaken to a maximum of four hours.

**MUS 145D. Trombone I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in trombone. May be retaken to a maximum of four hours.

**MUS 145E. Tuba I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in tuba. May be retaken to a maximum of four hours.

**MUS 146A. Flute I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in flute. May be retaken to a maximum of four hours.

**MUS 146B. Oboe I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in oboe. May be retaken to a maximum of four hours.

**MUS 146C. Clarinet I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in clarinet. May be retaken to a maximum of four hours.

**MUS 146D. Bassoon I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in bassoon. May be retaken to a maximum of four hours.

**MUS 146E. Saxophone I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in saxophone. May be retaken to a maximum of four hours.

**MUS 147. Percussion I. (1,2 Credits)**

I, II. Corequisite: MUS 253 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 149. Music Entrepreneurship. (1 Credit)**

I. Develop a growth-mindset, creativity, and strong professional demeanor to help students succeed at ECU and beyond. Class restricted to music majors only.

**MUS 161. Musicianship I. (1 Credit)**

I. Corequisite: MUS 181. Skills and strategies for the perception, identification and performance of the basic materials of music.

**MUS 190. Music Industry I. (2 Credits)**

II. An overview to the music industry. Including a survey of industry careers and skills necessary to succeed in the music business.

**MUS 191. Music Industry II. (2 Credits)**

I. Prerequisite: MUS 190 or departmental approval. Continuation of MUS 190 including music copyright, publishing, and the evolution of the twenty-first century music business model.

**MUS 192. History of the Recording Industry. (2 Credits)**

A. Prerequisite: MUS 191. Understanding of the origins of recording technology, the development of production techniques, and the social/musical/cultural influences that helped shape these changes.

**MUS 201. Introduction to Piano Pedagogy. (1 Credit)**

II. Prerequisites: MUS 112 and major and minor in minor. Discusses teaching techniques, beginner methods, and materials for group and individual piano instruction.

**MUS 202. Introduction to Vocal Pedagogy. (1 Credit)**

II. Prerequisites: MUS 122 and major or minor in music. Studies principles of vocal production in singing and rudimentary concepts of teaching private voice lessons.

**MUS 205. Chamber Music. (0.5 Credits)**

I, II. Study and performance of standard chamber music literature. Open to pianists, vocalists, string, wind, and percussion players upon recommendation of instructor. Course may be retaken.

**MUS 210. Intermediate Class Piano I. (1 Credit)**

II. Prerequisite: MUS 111 or departmental approval. Second year course for non-piano majors to meet Level II Piano Proficiency Examination requirements. Continuation of skill development listed under MUS 110; more complex materials, intermediate repertoire, and technique. May be retaken to a maximum of two hours.

**MUS 211. Intermediate Class Piano II. (1 Credit)**

I, II. Prerequisite: MUS 210 or departmental approval. Continuation of MUS 210. May be retaken to a maximum of two hours.

**MUS 212. Piano II. (1,2 Credits)**

I, II. Prerequisite: MUS 112. Corequisite: MUS 225 or 226 or 313; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 215. Woodwind Teaching Techniques. (1 Credit)**

A. Fingerings, care of instruments, tone production, and tuning. Group instruction to prepare for teaching woodwind instruments in band or orchestra. Examination of woodwind instrument materials suitable for beginning instrumental programs. Open to music majors only.

**MUS 216. Brass Teaching Techniques. (1 Credit)**

A. Fingering, slide positions, care of brass instruments, tone production, and tuning. Group instruction to prepare for teaching brass instruments in band or orchestra. Examination of brass materials suitable for beginning instrumental programs. Open to music majors only.

**MUS 217. Applied Music Theory III. (3 Credits)**

I. Prerequisite: MUS 118 with a minimum grade of "C". Continuation of MUS 118. Advanced study of the materials and organization of music through analysis, composition, aural perception, and performance.

**MUS 218. Applied Music Theory IV. (3 Credits)**

II. Prerequisite: MUS 217 with a minimum grade of "C". Continuation of MUS 217. Further advanced study of the materials and organization of music through analysis, composition, aural perception, and performance.

**MUS 220. Diction for Singers. (1 Credit)**

II. For voice, education, and choral conducting students. Enunciation and projection; accurate pronunciation in English, Italian and Ecclesiastical Latin. Phonetics and the International Phonetic Alphabet.

**MUS 221. Diction for Singers II. (1 Credit)**

I. Prerequisite: MUS 220. For voice students. Enunciation and projection; accurate pronunciation of German and French poetry and poetry in song. Using the International Phonetic Alphabet (IPA).

**MUS 222. Voice II. (1,2 Credits)**

I, II. Prerequisite: MUS 122. Corequisite: MUS 225 or 226; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 224. Chamber Singers. (1 Credit)**

(1) Highly select small ensemble dedicated to the highest standards of preparation and performance of choral literature from all style periods. Membership is by audition only. May be retaken to a maximum of four hours.

**MUS 225. Concert Choir. (1 Credit)**

(0-1) Large mixed chorus open to all singers. This choir places an emphasis on developing sight reading and performance skills while providing a challenging and satisfying musical experience. Course may be retaken.

**MUS 226. University Singers (SATB). (1 Credit)**

(0-1) I, II. Advanced choral ensemble of mixed voices open by audition only. Rehearsal and performance of choral repertoire from various styles and eras. Presents several major concerts throughout the year on and off campus. Course may be retaken.

**MUS 228A. ENChor (SSAA Choir). (1 Credit)**

I, II. Choral ensemble of soprano/mezzo/alto voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Repeatable maximum number of hours: 4.

**MUS 228B. Koros (TTBB Choir). (1 Credit)**

I, II. Choral ensemble of tenor/baritone/bass voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Repeatable maximum number of hours: 4.

**MUS 230. String Instruments Methods I. (1 Credit)**

I. Fingering, care of instruments and tone production. Group instruction to prepare for teaching strings in class and for training string section of school orchestra; survey of teaching materials.

**MUS 232A. Violin II. (1-2 Credits)**

I, II. Prerequisite: MUS 132a. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in violin. May be retaken to a maximum of four hours.

**MUS 232B. Viola II. (1-2 Credits)**

I, II. Prerequisite: MUS 132b. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in viola. May be retaken to a maximum of four hours.

**MUS 232C. Cello II. (1-2 Credits)**

I, II. Prerequisite: MUS 132c. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in violin `cello. May be retaken to a maximum of four hours.

**MUS 232D. String Bass II. (1-2 Credits)**

I, II. Prerequisite: MUS 132d. Corequisite: MUS 235 or 236 or 255A; course open to music majors or minors only. One or two lessons per week. Instruction available in string bass. May be retaken to a maximum of four hours.

**MUS 232F. Guitar II. (1-2 Credits)**

I, II. Prerequisite: MUS 132f. Corequisite: MUS 257; course open to music majors or minors only. One or two lessons per week. Instruction available in guitar. May be retaken to a maximum of four hours.

**MUS 235. Symphony Orchestra. (1 Credit)**

I, II. Prerequisite: Audition. Rehearsal and performance of orchestra literature from all style periods. Concerts given both on and off campus. Three or more hours rehearsal per week. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 236. String Orchestra. (1 Credit)**

I, II. Rehearsal and performance of string orchestra literature from all style periods. Concerts given both on and off campus. Two or more hours of rehearsal per week. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 245A. Trumpet II. (1-2 Credits)**

I, II. Prerequisite: MUS 145a. Corequisite: MUS 250 and 235 or 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in trumpet. May be retaken to a maximum of four hours.

**MUS 245B. French Horn II. (1-2 Credits)**

I, II. Prerequisite: MUS 145b. Corequisite: MUS 250 and 235 or 255a or 255b or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in French horn. May be retaken to a maximum of four hours.

**MUS 245C. Euphonium II. (1-2 Credits)**

I, II. Prerequisite: MUS 145c. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available euphonium. May be retaken to a maximum of four hours.

**MUS 245D. Trombone II. (1-2 Credits)**

I, II. Prerequisite: MUS 145d. Corequisite: MUS 250 and 235 or 255a or 255b or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in trombone. May be retaken to a maximum of four hours.

**MUS 245E. Tuba II. (1-2 Credits)**

I, II. Prerequisite: MUS 145e. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in tuba. May be retaken to a maximum of four hours.

**MUS 246A. Flute II. (1-2 Credits)**

I, II. Prerequisite: MUS 146a. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in flute. May be retaken to a maximum of four hours.

**MUS 246B. Oboe II. (1-2 Credits)**

I, II. Prerequisite: MUS 146b. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in oboe. May be retaken to a maximum of four hours.

**MUS 246C. Clarinet II. (1-2 Credits)**

I, II. Prerequisite: MUS 146c. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One to two lessons per week. Instruction available in clarinet. May be retaken to a maximum of four hours.

**MUS 246D. Bassoon II. (1-2 Credits)**

I, II. Prerequisite: MUS 146d. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in bassoon. May be retaken to a maximum of four hours.

**MUS 246E. Saxophone II. (1-2 Credits)**

I, II. Prerequisite: MUS 146e. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in saxophone. May be retaken to a maximum of four hours.

**MUS 247. Percussion II. (1,2 Credits)**

I, II. Prerequisite: MUS 147. Corequisite: MUS 253 and 255A or 255B or 235 or 256; Course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 249. The Musician's Health. (2 Credits)**

I. Development of lifelong strategies to sustain healthy and successful careers in music, protect musicians from short-term and long-term injury, and promote positive performance practices. Open to music majors only.

**MUS 250. Small Ensembles:\_\_\_\_. (.5 Credits)**

I, II. Rehearsal and performance for: string, brass, percussion, vocal, and woodwind ensembles. Course may be retaken.

**MUS 251A. Trombone Methods. (0.5 Credits)**

Prerequisite: Music majors only. Slide positions, care of trombone, tone production, and tuning. Group instruction to prepare for teaching trombone in band or orchestra. Examination of trombone materials suitable for beginning instrumental programs.

**MUS 251B. Tuba/Baritone Methods. (0.5 Credits)**

Prerequisite: Music majors only. Fingering, care of tube/baritone, tone production, and tuning. Group instruction to prepare for teaching tuba/baritone in band or orchestra. Examination of tuba/baritone materials suitable for beginning instrumental programs.

**MUS 252A. Horn Methods. (0.5 Credits)**

Prerequisite: MUS 251A or MUS 251B. Fingering, care of horn, tone production, and tuning. Group instruction to prepare for teaching horn in band or orchestra. Examination of horn materials suitable for beginning instrumental programs.

**MUS 252B. Trumpet Methods. (0.5 Credits)**

II. Prerequisite: MUS 251A or MUS 251B. Fingering, care of trumpet, tone production, and tuning. Group instruction to prepare for teaching trumpet in band or orchestra. Examination of trumpet materials suitable for beginning instrumental programs.

**MUS 253. Percussion Ensemble. (1 Credit)**

I, II. Rehearsal and performance of standard Percussion Ensemble literature including steel drums, African studies, and marimba ensemble literature. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 254. Jazz Ensemble. (1 Credit)**

I, II. Rehearsal and performance of standard Jazz Ensemble literature including jazz improvisation, jazz styles, and form. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 255A. Symphonic Band. (1 Credit)**

I, II. Course open by audition only. Rehearsal and performance of standard band literature. May be retaken to a maximum of four hours.

**MUS 255B. Concert Band. (1 Credit)**

II. Course open to all students with prior experience in wind and percussion instruments. Rehearsal and performance of standard band literature. May be retaken to a maximum of four hours. Departmental approval required for 0 credit section.

**MUS 256. Marching Band. (1 Credit)**

I. Preparation and performances of marching band shows during the football season. Three or more rehearsals per week. May be retaken to a maximum of four hours.

**MUS 257. Guitar Ensemble. (1 Credit)**

I, II. Course open to guitar majors only. Must have experience reading music and performance skills on the instrument. May be retaken for a total of four hours.

**MUS 258. Bass Choir. (1 Credit)**

(1) I, II. Course open to students with prior experience in wind and percussion instruments, by audition only. Rehearsal and performance of standard brass choir literature. May be retaken to a maximum of 4 hours.

**MUS 261. Musicianship IV. (1 Credit)**

I. Prerequisite: MUS 162 (C), corequisite MUS 281. Skills and strategies for the perception, identification and performance of the basic materials of music. Further study of more difficult, harmonic, melodic and rhythmic materials from the Baroque and Classic periods.

**MUS 262. Musicianship IV. (1 Credit)**

II. Prerequisite: MUS 261, co-requisite MUS 282. Skills and strategies for the perception, identification and performance of the materials of music. Further study of more difficult, harmonic, melodic and rhythmic materials from the Romantic and Modern periods.

**MUS 281. Intermediate Theory III. (3 Credits)**

I. Prerequisite: minimum grade of "C" in MUS 182, corequisite: MUS 261. Continuation of MUS 182. Integrated skills further developed through the study of more difficult, longer structures from the Baroque and Classic periods.

**MUS 282. Intermediate Theory IV. (3 Credits)**

II. Prerequisite: MUS 281, corequisite: MUS 262. Continuation of MUS 281. Integrated skills further developed through the study of more difficult structures from the Romantic and Modern periods.

**MUS 283. Beginning Composition. (1 Credit)**

A. Prerequisite: instructor approval. Guidance in the exploration and development of compositional techniques relevant to the student's stylistic direction. Correct notation and major stylistic analysis stressed. May be retaken to a maximum of four hours provided the subject matter is different each time.

**MUS 285. Jazz Improvisation. (2 Credits)**

II. Prerequisite: MUS 118 or instructor approval. Develop skills for improvising in contemporary jazz idioms.

**MUS 290. Film Scoring. (2 Credits)**

II. Prerequisite: MUS 190, 191 or departmental approval. This course gives students important and practical knowledge, tools, and approaches to writing music in the profession. Will also cover topics in Midi, sequencing, Finale, Sibelius, and hard disk recording applications.

**MUS 292. Fundamentals in Audio Production. (2 Credits)**

A. Prerequisite: MUS 192. Understanding of the physics of sound, fundamentals of sound design, microphone usage, and digital audio recording technology.

**MUS 300. Music Industry Careers & Internship Seminar. (0 Credits)**

I,II. Prerequisite: junior standing in music or departmental approval. Required for all Music Industry students who have earned at least 60 hours. Credit will be given when students have attended and/or completed department-sponsored activities regarding professional skills and internships and careers.

**MUS 310. Topics in Music:\_\_\_\_. (1-3 Credits)**

Selected topics in music, music technology, or applied musical skills. May be retaken to a maximum of 6 hours if topic is different.

**MUS 312. Piano III. (1-4 Credits)**

I, II. Prerequisite: MUS 212 and completion of the sophomore comprehensive in music. Corequisite: MUS 425 or 426; course open to music majors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 313. Accompanying. (1 Credit)**

(1) I, II. Prerequisite: keyboard coordinator approval. Keyboard students may substitute MUS 313 for ensembles requirements. Additional accompanying hours assigned. May be retaken to a maximum of four hours.

**MUS 317. Applied Music Theory V. (3 Credits)**

I. Prerequisite: MUS 218 with a minimum grade of "C". Advanced study of musical organization and techniques through score analysis, research, and aural perception.

**MUS 320. Class Voice Methods. (1 Credit)**

II. Basic vocal techniques with emphasis on developing the voice for solo and/or choral performance.

**MUS 322. Voice III. (1-4 Credits)**

I, II. Prerequisite: MUS 222 and completion of the sophomore comprehensive in music. Corequisite: MUS 425 or 426; course open to music majors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 327. Opera Workshop. (1 Credit)**

I, II. Prerequisite: instructor approval. Preparation and presentation of opera scenes and complete works. All phases of performance and technical procedures of staging, costumes, and management. Course may be retaken.

**MUS 330. String Instruments Methods II. (1 Credit)**

II. Prerequisite: MUS 230. Continuation of MUS 230.

**MUS 332A. Violin III. (1-4 Credits)**

I, II. Prerequisite: MUS 232a and completion of the sophomore comprehensive in music. Co-requisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction in violin. May be retaken to maximum of eight hours.

**MUS 332B. Viola III. (1-4 Credits)**

I, II. Prerequisite: MUS 232b and completion of the sophomore comprehensive in music. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction in viola. May be retaken to a maximum of eight hours.

**MUS 332C. 'Cello III. (1-4 Credits)**

I, II. Prerequisite: MUS 232c and completion of the sophomore comprehensive in music. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction in 'cello. May be retaken to a maximum of eight hours.

**MUS 332D. String Bass III. (1-4 Credits)**

I, II. Prerequisite: MUS 232d and completion of the sophomore comprehensive in music. Corequisite: MUS 435 or 436 or 455a; course open to music majors only. One or two lessons per week. Instruction in string bass. May be retaken to a maximum of eight hours.

**MUS 332F. Guitar III. (1-4 Credits)**

I, II. Prerequisite: MUS 232f and completion of the sophomore comprehensive in music. Corequisite: MUS 457; course open to music majors only. One or two lessons per week. Instruction in guitar. May be retaken to a maximum of eight hours.

**MUS 345A. Trumpet III. (1-4 Credits)**

I, II. Prerequisite: MUS 245a and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in trumpet. May be retaken to a maximum of eight hours.

**MUS 345B. French Horn III. (1-4 Credits)**

I, II. Prerequisite: MUS 245b and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in French horn. May be retaken to a maximum of eight hours.

**MUS 345C. Euphonium III. (1-4 Credits)**

I, II. Prerequisite: MUS 245c and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in euphonium. May be retaken to a maximum of eight hours.

**MUS 345D. Trombone III. (1-4 Credits)**

I, II. Prerequisite: MUS 245d and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in trombone. May be retaken to a maximum of eight hours.

**MUS 345E. Tuba III. (1-4 Credits)**

I, II. Prerequisite: MUS 245e and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in tuba. May be retaken to a maximum of eight hours.

**MUS 346A. Flute III. (1-4 Credits)**

I, II. Prerequisite: MUS 246a and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in flute. May be retaken to a maximum of eight hours.

**MUS 346B. Oboe III. (1-4 Credits)**

I, II. Prerequisite: MUS 246b and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in oboe. May be retaken to a maximum of eight hours.

**MUS 346C. Clarinet III. (1-4 Credits)**

I, II. Prerequisite: MUS 246c and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in clarinet. May be retaken to maximum of eight hours.

**MUS 346D. Bassoon III. (1-4 Credits)**

I, II. Prerequisite: MUS 246d and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in bassoon. May be retaken to a maximum of eight hours.

**MUS 346E. Saxophone III. (1-4 Credits)**

I, II. Prerequisite: MUS 246e and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 445A or 455B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in saxophone. May be retaken to a maximum of eight hours.

**MUS 347. Percussion III. (1-4 Credits)**

I, II. Prerequisite: MUS 247 and completion of the sophomore comprehensive in music. Corequisite: MUS 253 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 349. Applied Learning in Music. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**MUS 349A. Cooperative Study: Music. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**MUS 349B. Cooperative Study: Music. (0.5-8 Credits)**

Work in placements related to academic studies.

**MUS 349C. Cooperative Study: Music. (0.5-8 Credits)**

Work in placements related to academic studies.

**MUS 349D. Cooperative Study: Music. (0.5-8 Credits)**

Work in placements related to academic studies.

**MUS 351A. Clarinet Methods. (0.5 Credits)**

Prerequisite: Admission to Teacher Education. Fingering, care of instruments, tone production, and tuning. Group instruction to prepare for teaching the clarinet in band orchestra. Examination of clarinet materials suitable for beginning instrumental programs.

**MUS 351B. Flute Methods. (0.5 Credits)**

Prerequisite: Admission to Teacher Education. Fingering, care of the flute, tone production, and tuning. Group instruction to prepare for teaching the flute in band or orchestra. Examination of flute materials suitable for beginning instrumental programs.

**MUS 352A. Saxophone Methods. (0.5 Credits)**

II. Prerequisite: MUS 351A or MUS 351B. Fingerings, care of the saxophone, tone production, and tuning. Group instruction to prepare for teaching saxophone in band. Examination of saxophone materials suitable for beginning instrumental programs.

**MUS 352B. Oboe/Bassoon Methods. (0.5 Credits)**

II. Prerequisite: MUS 351A or MUS 351B. Fingerings, care of oboe/bassoon, tone production, and tuning. Group instruction to prepare for teaching oboe/bassoon in band or orchestra. Examination of oboe/bassoon materials suitable for beginning instrumental programs.

**MUS 354. Percussion Teaching Techniques. (1 Credit)**

II. Pre-requisite: MUS 215 or 216. Snare drumming, rudiments, teaching techniques. Experiences on all related percussion instruments: bass drum, tympani, and others. Some experiences with mallet instruments; marimba, xylophone, bells, and others.

**MUS 364. Principles of C & I in Music. (1 Credit)**

I. Co-requisite: MUS 366 and CED 300. Principles of curriculum and instructional design for the music classroom. Demonstration and application of standards-based learning and curricular alignment within a music setting.

**MUS 365. Error Detection. (1 Credit)**

I. Prerequisite: MUS 366. Practical experience in performing and conducting instrumental and choral music literature appropriate for use in school situation, including application of identifying and correcting performance errors.

**MUS 366. Basic Conducting Pedagogy. (2 Credits)**

I. Prerequisite: junior standing in music or instructor approval. Basic techniques of conducting.

**MUS 367. Instrumental Conducting. (2 Credits)**

II. Prerequisite: MUS 366. Instrumental conducting techniques and their application in rehearsal and performance.

**MUS 368. Choral Conducting. (2 Credits)**

II. Prerequisite: MUS 366. Choral conducting techniques and their application in rehearsal and performance.

**MUS 369. Intermediate Conducting. (2 Credits)**

II. Prerequisite: MUS 366. Development of artistry expressed through physical movement. Specific topics include aesthetics as they apply to conducting, enhanced musicianship and interpretation, ensemble leadership, movement principles, gestural development, transposition/clef reading, aural training, and score study.

**MUS 373. Stylistic Composition. (2 Credits)**

I. Prerequisite: MUS 218 (with a grade of C or better) or departmental approval. A study of musical styles from the Baroque to the Romantic, including analysis of representative literature and stylistic composition assignments.

**MUS 383. Orchestration. (3 Credits)**

I. Prerequisite: Music majors only, MUS 182 and junior standing. Survey of ranges, timbers, and characteristics of orchestra and band instruments. Scoring for wind ensemble and full orchestra.

**MUS 384. Survey of Music Technology. (2 Credits)**

I, II. Prerequisite: MUS 182 and junior standing in Music. Survey of music technology, including sound reinforcement, MIDI sequencing, DAW software, music specific web design notation software, and the history of music technology.

**MUS 390. Music Industry III. (3 Credits)**

I. Prerequisite: MUS 191 or departmental approval. Continuation of MUS 190 including marketing, promotion, advertising, and starting a business. A project reflecting course study is required.

**MUS 391. Music Industry IV. (3 Credits)**

II. Prerequisite: MUS 390 or departmental approval. Continuation of MUS 390 including non-profit organizations, grants, contacts and website creation. A project reflecting course study is required.

**MUS 392. Microphone Placement Techniques. (2 Credits)**

A. Prerequisites: MUS 292 and Junior standing in Music. The study and understanding of microphone construction, usage, and placement techniques.

**MUS 399. Joint Recital. (1 Credit)**

I, II. Prerequisite: junior standing in music. A half recital shared with another student.

**MUS 412. Piano IV. (1-4 Credits)**

I, II. Prerequisite: MUS 312. Corequisite: MUS 425 or 426 or 513; course open to music majors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 422. Voice IV. (1-4 Credits)**

I, II. Prerequisite: MUS 322. Corequisite: MUS 425 or 426; course open to music majors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 424. Chamber Singers. (1 Credit)**

(1) Prerequisite: MUS 224. Highly select mall ensemble dedicated to the highest standards or preparation and performance of choral literature from all style periods. Membership is by audition only. Course may be retaken.

**MUS 425. Concert Choir. (1 Credit)**

I, II. Prerequisite: MUS 225. Large mixed chorus open to all singers. This choir places an emphasis on developing sight reading and performance skills while providing a challenging and satisfying musical experience. Course may be retaken.

**MUS 426. University Singers (SATB). (1 Credit)**

I, II. Prerequisite: MUS 226. Advanced choral ensemble of mixed voices open by audition only. Rehearsal and performance of choral repertoire from various styles and eras. Presents several major concerts throughout the year on and off campus. Course may be retaken.

**MUS 428A. EnChor (SSAA Choir). (1 Credit)**

I, II. Prerequisite: MUS 228A. Choral ensemble of soprano/mezzo/alto voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Repeatable maximum number of hours: 4.

**MUS 428B. Koros (TTBB Choir). (1 Credit)**

I, II. Prerequisite: MUS 228B. Choral ensemble of tenor/baritone/bass voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Repeatable maximum number of hours: 4.

**MUS 432A. Violin IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332a. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction available in violin. May be retaken to a maximum of eight hours.

**MUS 432B. Viola IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332b. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction available in viola. May be retaken to a maximum of eight hours.

**MUS 432C. 'Cello IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332c. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction available in violin `cello. May be retaken to a maximum of eight hours.

**MUS 432D. String Bass IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332d. Corequisite: MUS 435 or 436 or 455a; course open to music majors only. One or two lessons per week. Instruction available in string bass. May be retaken to a maximum of eight hours.

**MUS 432F. Guitar IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332f. Corequisite: MUS 457; course open to music majors only. One or two lessons per week. Instruction available in guitar. May be retaken to a maximum of eight hours.

**MUS 435. Symphony Orchestra. (1 Credit)**

I, II. Prerequisite: MUS 235. Rehearsal and performance of orchestra literature from all style periods. Concerts given both on and off campus. Course open by audition only. May be retaken.

**MUS 436. String Orchestra. (1 Credit)**

I, II. Rehearsal and performance of string orchestra literature from all style periods. Concerts given both on and off campus. Two or more hours of rehearsal per week. Course open by audition only. May be retaken.

**MUS 445A. Trumpet IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345a. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in trumpet. May be retaken to a maximum of eight hours.

**MUS 445B. French Horn IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345b. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in French horn. May be retaken to a maximum of eight hours.

**MUS 445C. Euphonium IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345c. Corequisite: MUS 250 and 455a or 455b or 256; course open to music majors only. One or two lessons per week. Instruction available in baritone horn. May be retaken to a maximum of eight hours.

**MUS 445D. Trombone IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345d. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in trombone. May be retaken to a maximum of eight hours.

**MUS 445E. Tuba IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345e. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in tuba. May be retaken to a maximum of eight hours.

**MUS 446A. Flute IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346a. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in flute. May be retaken to a maximum of eight hours.

**MUS 446B. Oboe IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346b. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in oboe. May be retaken to a maximum of eight hours.

**MUS 446C. Clarinet IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346c. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in clarinet. May be retaken to a maximum of eight hours.

**MUS 446D. Bassoon IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346d. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in bassoon. May be retaken to a maximum of eight hours.

**MUS 446E. Saxophone IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346E. Corequisite: MUS 250 and 455A or 455B or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in saxophone. May be retaken to a maximum of eight hours.

**MUS 447. Percussion IV. (1-4 Credits)**

I, II. Prerequisite: MUS 347. Corequisite: MUS 253 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 449. Music Industry Senior Capstone. (1 Credit)**

(1) I, II. Prerequisite: MUS 300 and departmental approval. Music Industry and Recording Arts students will apply knowledge and skills to the student run record label. May be retaken for a maximum of two hours.

**MUS 451. Piano Teaching Repertoire. (1 Credit)**

Prerequisites: MUS212 and major in music. Explores the teaching repertoire of elementary and intermediate piano students.

**MUS 452. Vocal Teaching Repertoire. (1 Credit)**

I. Prerequisite: MUS 222 and major in music. Explores the teaching repertoire for beginning to intermediate voice students.

**MUS 453. Percussion Ensemble. (1 Credit)**

I, II. Rehearsal and performance of standard Percussion Ensemble literature including steel drums, African studies, and marimba ensemble literature. By audition only. May be retaken.

**MUS 454. Jazz Ensemble. (1 Credit)**

I, II. Rehearsal and performance of standard Jazz Ensemble literature including jazz improvisation, jazz styles, and forms. By audition only. May be retaken.

**MUS 455A. Symphonic Band. (1 Credit)**

I, II. Prerequisite: MUS 255A. By audition only. Rehearsal and performance of standard band literature. May be retaken. Departmental approval required for 0 credit section.

**MUS 455B. Concert Band. (1 Credit)**

II. Prerequisite: MUS 255B. Course open to all students with prior experience in wind and percussion instruments. Rehearsal and performance of standard band literature. May be retaken. Departmental approval required for 0 credit section.

**MUS 457. Guitar Ensemble. (1 Credit)**

I, II. Prerequisite: MUS 257. Course open to guitar majors only. Must have experience reading music and performance skills on the instrument. May be retaken.

**MUS 458. Brass Choir. (1 Credit)**

(0-1) I, II. Prerequisite: MUS 258. Course open to students with prior experience in wind and percussion instruments, by audition only. Rehearsal and performance of standard brass choir literature. May be retaken. Departmental approval required for 0 credit section.

**MUS 480. Form and Analysis. (3 Credits)**

I. Prerequisites: MUS 281 and junior standing in music. In-depth study of the materials of form from the motive through large structures.

**MUS 481. Tonal Counterpoint. (3 Credits)**

A. Prerequisite: MUS 281 or equivalent. A study of contrapuntal music from the 18th century, including analysis of representative literature and stylistic composition assignments.

**MUS 482. Music Since 1900. (2 Credits)**

II. Prerequisite: Junior standing. Corequisites and/or prerequisites: MUS 218 and MUH 276W. A study of the compositional devices relevant to music since 1900, and a study of specific representative literature of significant composers.

**MUS 483. Composition. (2 Credits)**

A. Prerequisite: MUS 282 and 283; or departmental approval. Individual guidance in the exploration and development of compositional techniques relevant to the student's stylistic direction. May be retaken to a maximum of eight hours, provided the subject matter is different.

**MUS 484. Digital Music. (2 Credits)**

I. Prerequisite: MUS 218 or equivalent with a grade of C or better. Advanced instruction in the concepts, software and techniques related to creating music for digital media.

**MUS 492. Advanced Mixing. (2 Credits)**

A. Prerequisite: MUS 392 and senior standing. Covers concepts and techniques involved in mixing audio for commercial productions. Become familiar with terminology and concepts specific to recording studios and sound reinforcement.

**MUS 499. Senior Project/Recital. (1,2 Credits)**

I, II. Prerequisite: MUS 399. A full performance recital or a theory and composition project consisting of a theory project and recital of student's own compositions.

**MUS 501. Music Leadership. (2 Credits)**

(2) II. Prerequisite: MUH 276W or instructor approval. Development of music leadership skills for the 21st century. Leadership styles, digital marketing, grant writing, and policy development will be addressed. Credit will not be awarded for both MUS 501 and 701.

**MUS 510. Special Topics in Music:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: MUS 480 or equivalent, or departmental approval. Advanced topics in music. May be retaken to a maximum of six hours, provided the topics are different.

**MUS 510S. Special Topics in Music:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: MUS 480 or departmental approval. Advanced topics in music that incorporates a service learning component. May be retaken to a maximum of six hours, provided the topics are different. Credit will not be awarded for both MUS 510 and 510S.

**MUS 511. Jazz Theory. (2 Credits)**

(2) I. Prerequisite: MUS 218 or departmental approval. Study of musical concepts relating to the jazz idiom. Credit will not be awarded for both MUS 511 and 711.

**MUS 512. Piano V. (1-4 Credits)**

I, II. May not be taken for credit by piano majors.

**MUS 513. Techniques of Accompanying. (1 Credit)**

I, II. Practical training in the tradition, interpretation, and execution of accompaniments. May be retaken to a maximum of two hours.

**MUS 516. Studio Management. (1 Credit)**

(1) II. Pre-requisite: departmental approval. This course explores business practices and administrative duties of managing an applied music studio. Credit will not be awarded for students who have credit for MUS 716, 816.

**MUS 517. Arranging. (2 Credits)**

(2) A. Prerequisite: MUS 218 with a minimum grade of "C". A study of the practical skills and fundamental knowledge needed to arrange music for instruments and/or voices in various ensemble configurations. Credit will not be awarded for both MUS 517 and 717.

**MUS 519. Performance Temperament. (2 Credits)**

(2). A. Prerequisite: MUS 218. Condition students for optimal public performance. Strategies for artful and effective practicing/preparation, maintaining motivation, as well as confronting performance anxieties and achieving peak performance. Credit will not be awarded for both MUS 519 and 719.

**MUS 520. Advanced Diction for Singers. (1 Credit)**

A. Prerequisite: MUS 220. For voice and choral conducting students. Enunciation and projection; accurate pronunciation in German and French. Phonetics and the International Phonetic Alphabet.

**MUS 522. Voice V. (1-4 Credits)**

I, II. May not be taken for credit by voice majors.

**MUS 542. Organ V. (1-4 Credits)**

I, II. May not be taken for credit by voice majors.

**MUS 549. Career Development. (2 Credits)**

(2). I. Prerequisite: MUH 276W or instructor approval. Development of the professional skills necessary for a sustainable career in music. Self-marketing, business and finance, networking, and interviewing topics will be explored. Creation of professional documents needed for personal promotion in the industry. Credit will not be awarded for both MUS 549 and 749.

**MUS 550. Teaching Techniques. (1 Credit)**

A. Prerequisite: MUS 399. Analysis of current teaching methods and materials with the intention of developing sound teaching procedures. May include observation and performance. Topics in woodwinds, brass, percussion, strings, voice, piano, and organ. Credit will not be awarded for both MUS 550 and 750.

**MUS 551. Performance Literature. (1 Credit)**

A. Prerequisite: MUS 399. Literature for various performing media relative to performance practices and problems. Topics in woodwinds, brass, percussion, strings, voice, piano, and organ. Credit will not be awarded for both MUS 551 and 751.

**MUS 555. Symphonic Music Literature. (3 Credits)**

I. Prerequisites: MUH 371, 372 and music majors only. Evolution of the symphony from its beginning to the 20th century with emphasis on score reading and listening.

**MUS 556. Choral Music Literature. (2 Credits)**

II. Prerequisites: MUH 275 Survey of choral music literature from the 15th century to the present.

**MUS 557. Symphonic and Wind Band Literature. (2 Credits)**

(2). I. Evolution of instrumental music from its beginning to modern day. Includes a detailed exploration of music and the many artistic, social, and cultural forces that helped to shape these genres. Credit will not be awarded for both MUS 557 and 757.

**MUS 586. Workshop in Instrumental Music. (1-4 Credits)**

A. Topics in band or orchestra procedures. May be retaken to a maximum of four hours.

**MUS 588. Pedagogy of Theory. (2 Credits)**

A. Prerequisite: MUS 399 and music majors only. Comparative study of theory systems with emphasis on presentation and illustrative exercises dealing with related theoretical problems.

**MUS 589. Workshop in Choral Music. (1-4 Credits)**

A. Techniques, literature, and materials pertinent to a particular area or areas of preparation and performance of choral music. Topics to be announced. May be retaken to a maximum of four hours.

**Music Theatre****MUT 135. Voice and Movement for the Actor. (3 Credits)**

A. Exploration of voice and movement as the basic tools of performance. Students will gain awareness of their own habits and develop their capacities for clear and expressive vocal and physical communication. The development of character-specific physicalization and vocal production.

**MUT 250. Musical Theatre Ensemble. (1 Credit)**

I, II. Rehearsal and performance for: musical theatre performance, dance ensemble, or orchestra ensembles. Outside rehearsals, performances, and all technical rehearsal are required. Repeatable maximum number of hours: 8.

**MUT 280. Acting for Musical Theatre. (3 Credits)**

A. Formerly THE 280. Prerequisite: THE 135 or MUT 135. Study of Musical Theatre as an art form, and an examination of the acting process and how it applies to the musical genre; performance work is included. Credit will not be awarded for both THE 280 and MUT 280.

**MUT 285. Theatre Dance I. (2 Credits)**

I, II. A beginning course in movement and dance for the stage. Expands the capacity for non-verbal self-expression and dramatic imagination. Basic work in ballet, jazz and musical theatre styles will be introduced. Any combination of THE 285/MUT 285 may be retaken to a maximum of six hours.

**MUT 385. Theatre Dance II. (2 Credits)**

I, II. Prerequisite: THE 285 or instructor approval. Emphasis is placed on enhancing strength, coordination, and technique as movement skills develop. Ensemble work, and fundamentals in ballet, jazz, partnering and musical theatre styles will be included. Any combination of THE 385/MUT 385 may be retaken to a maximum of six hours. Insert: Formerly THE 385.

## Music, Bachelor of Music with a Concentration in Music Education (B.M.)

**Program Objectives**

Upon successful completion of the Bachelor of Music program, graduates will be able to perform a recital in their major applied area, communicate effectively about the theoretical concepts in music, and identify and analyze musical works from diverse cultures and historical periods.

In addition, all music education majors will demonstrate the ability to sing, play a variety of instruments, develop lesson plans, and engage in effective teaching during a student teaching semester. All theory and composition students will demonstrate composition skills and present original compositions in public recitals as well as identifying an area of advanced analysis of musical works through a senior project. All music industry students will demonstrate music technology skills, identify trends in the many facets of this business field, and demonstrate an ability to work with professionals through cooperative learning experiences. All performance majors will prepare two performance recitals and analyze repertoire presented on those recitals, in addition to identifying different pedagogical approaches in their area.

## Bachelor of Music Core Requirements

### Applied Music

All music majors must complete a minimum of seven semesters of applied lessons with at least three of the semesters at the upper division levels (numbered 300 or 400). Applied students must complete a jury examination at the end of each semester. Each major is required to enroll in applied music every semester of full-time enrollment.

## Solo Recital Performance

Each major is required to perform the equivalent of a half recital (MUS 399 Joint Recital) during the course of study.

## Ensemble Requirements

Each major is expected to enroll in a major ensemble reflecting the major applied area of study every semester of full-time enrollment. Wind and percussion majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 256	Marching Band	1
MUS 255A/455A	Symphonic Band	1
MUS 255B/455B	Concert Band	1
MUS 235/435	Symphony Orchestra	1

With permission of the Chair of the School of Music, MUS 254 Jazz Ensemble/MUS 454 Jazz Ensemble may be submitted for the major ensemble requirement for wind and percussion majors.

Orchestral string majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 235/435	Symphony Orchestra	1
MUS 236/436	String Orchestra	1

Some string bass majors may be assigned to MUS 255A Symphonic Band/MUS 455A Symphonic Band based on audition results.

Guitar majors will enroll in:

Code	Title	Hours
MUS 257/457	Guitar Ensemble	1
MUS 250	Small Ensembles:____ (Electric Guitar Ensemble)	.5

Vocal majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 228A/428A	ENChor (SSAA Choir)	1
MUS 228B/428B	Koros (TTBB Choir)	1
MUS 226/426	University Singers (SATB)	1

Even if the student plans to study in two or more applied areas, one of them must be declared the major. Students enrolling in more than three ensembles must receive permission for such participation from their applied teacher, ensemble director, and advisor.

## Recital Attendance

All majors are required to attend 16 recitals including the departmental recitals and other School of Music concerts and recitals held throughout the semester (MUS 101 Performance Class) for at least six semesters. Performances off campus must receive approval by the Chair of the School of Music.

## Music Education

All wind and percussion majors must complete at least two semesters of MUS 256 Marching Band. Non-marching instruments/voice may choose an advisor approved ensemble in lieu of MUS 256 Marching Band.

## Admission to the Music Major Program

Admission to the Bachelor of Music programs requires a successful audition for the applicable applied teacher. The student is expected to demonstrate acceptable levels of achievement in performance in terms of intonation, tone quality and rhythmic accuracy. Incoming students will be expected to perform two selections of contrasting styles. Students may be accepted on probationary status at the discretion of the applied teacher and the School of Music chair. Students seeking to opt out of one of more semesters of class piano may complete a placement exam prior to the start of the semester of study.

Code	Title	Hours
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1

## Program Requirements

CIP Code: 50.0901

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT – Music majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

Choose from one of the following:	
MUS 349	Applied Learning in Music
MUS 482	Music Since 1900
MUS 499	Senior Project/Recital
MUS 550	Teaching Techniques
MUS 551	Performance Literature
CED 499	Clinical VI: The Professional Semester

**Major Requirements**

<i>Core Courses</i>		
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 117	Applied Music Theory I	3
MUS 118	Applied Music Theory II	3
MUS 149	Music Entrepreneurship	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1
MUS 217	Applied Music Theory III	3
MUS 218	Applied Music Theory IV	3
MUS 317	Applied Music Theory V	3
MUS 366	Basic Conducting Pedagogy	2
MUS 399	Joint Recital	0
MUS 549	Career Development	2
MUH 275	Western Musical Traditions I	2
MUH 276W	Western Musical Traditions II	2
MUH 373	The Diverse Worlds of Music	2
Choose from a minimum of seven hours of applied primary instrument or voice over seven semesters (two credits at 100 level, two credits at 200 level, two credits at 300 level and one credit at 400 level)		7
Choose from seven semesters of major ensembles		7
Choose from two credits of chamber ensembles		2
MUS 101	Performance Class (six semesters)	0

**Concentrations**

Students must select one of the following Concentrations:	37-48
Music Performance	
Emphasis in Music Industry	
Emphasis in Recording Arts	
Music Theory and Composition	
Music Education	

*Supporting Course Requirements*

Performance/Vocal:	
Vocal Performance majors must elect three hrs of foreign language (Element 6) as part of their General Education studies. <sup>G</sup>	

*Free Electives*

Choose from 0-8 hours of free electives	0-8
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**Total Hours** **120-139**

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
MUS 113	Vocal Teaching Techniques <sup>1</sup>	1
MUS 116	Classroom Instrument Techniques	1
MUS 215	Woodwind Teaching Techniques	1
MUS 216	Brass Teaching Techniques	1
MUS 230	String Instruments Methods I	1
MUS 256	Marching Band <sup>2</sup>	2
MUS 354	Percussion Teaching Techniques	1
MUS 365	Error Detection	1
MUS 369	Intermediate Conducting	2
MUS 384	Survey of Music Technology	2
<i>Professional Education Requirements for Music Education</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	2
EDF 204	Emerging Instructional Technologies	2
or MUS 384	Survey of Music Technology	
EMS 300W	Curriculum and Instructional Design	1
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	1
MUE 302	Classroom Music Teaching Methods	2
or ELE 303	Classroom Music Methods	
MUE 402	Perf Ensembles Teaching Methods	2
or ESE 402	Performing Ensembles Teaching Methods	
MUE 502	Music Tech Teaching Methods	2
or EMS 502	Music Tech Teaching Methods	
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>Exit Requirements</i>		
PRAXIS Examination		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. The PRAXIS exam must be taken prior to student teaching.		

**Total Hours** **48**

<sup>1</sup>  
Vocal majors will take MUS 210 Intermediate Class Piano I instead of MUS 113 Vocal Teaching Techniques.

<sup>2</sup>  
Non-marching instruments/voice may choose an advisor approved ensemble instead of MUS 256 Marching Band

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**PRAXIS Disclaimer:** Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Educator Preparation, Assessment, and Internship at (502) 564-5789.

## Music, Bachelor of Music with a Concentration in Music Industry Emphasis (B.M.)

### Program Objectives

Upon successful completion of the Bachelor of Music program, graduates will be able to perform a recital in their major applied area, communicate effectively about the theoretical concepts in music, and identify and analyze musical works from diverse cultures and historical periods.

In addition, all music education majors will demonstrate the ability to sing, play a variety of instruments, develop lesson plans, and engage in effective teaching during a student teaching semester. All theory and composition students will demonstrate composition skills and present original compositions in public recitals as well as identifying an area of advanced analysis of musical works through a senior project. All music industry students will demonstrate music technology skills, identify trends in the many facets of this business field, and demonstrate an ability to work with professionals through cooperative learning experiences. All performance majors will prepare two performance recitals and analyze repertoire presented on those recitals, in addition to identifying different pedagogical approaches in their area.

## Bachelor of Music Core Requirements

### Applied Music

All music majors must complete a minimum of seven semesters of applied lessons with at least three of the semesters at the upper division levels (numbered 300 or 400). Applied students must complete a jury examination at the end of each semester. Each major is required to enroll in applied music every semester of full-time enrollment.

### Solo Recital Performance

Each major is required to perform the equivalent of a half recital (MUS 399 Joint Recital) during the course of study.

### Ensemble Requirements

Each major is expected to enroll in a major ensemble reflecting the major applied area of study every semester of full-time enrollment.

Wind and percussion majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 256	Marching Band	1
MUS 255A/455A	Symphonic Band	1

MUS 255B/455B	Concert Band	1
MUS 235/435	Symphony Orchestra	1

With permission of the Chair of the School of Music, MUS 254 Jazz Ensemble/MUS 454 Jazz Ensemble may be submitted for the major ensemble requirement for wind and percussion majors.

Orchestral string majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 235/435	Symphony Orchestra	1
MUS 236/436	String Orchestra	1

Some string bass majors may be assigned to MUS 255A Symphonic Band/MUS 455A Symphonic Band based on audition results.

Guitar majors will enroll in:

Code	Title	Hours
MUS 257/457	Guitar Ensemble	1
MUS 250	Small Ensembles:_____ (Electric Guitar Ensemble)	.5

Vocal majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 228A/428A	ENChor (SSAA Choir)	1
MUS 228B/428B	Koros (TTBB Choir)	1
MUS 226/426	University Singers (SATB)	1

Even if the student plans to study in two or more applied areas, one of them must be declared the major. Students enrolling in more than three ensembles must receive permission for such participation from their applied teacher, ensemble director, and advisor.

### Recital Attendance

All majors are required to attend 16 recitals including the departmental recitals and other School of Music concerts and recitals held throughout the semester (MUS 101 Performance Class) for at least six semesters. Performances off campus must receive approval by the Chair of the School of Music.

### Music Industry and Recording Arts

All Music Industry and Recording Arts majors must complete 3 or 4 credit hours of MUS 349 Applied Learning in Music and 2 credit hours of MUS 449 Music Industry Senior Capstone. All Co-op projects must be approved by the Co-op office, department chair, and Co-op coordinator.

## Admission to the Music Major Program

Admission to the Bachelor of Music programs requires a successful audition for the applicable applied teacher. The student is expected to demonstrate acceptable levels of achievement in performance in terms of intonation, tone quality and rhythmic accuracy. Incoming students will be expected to perform two selections of contrasting styles. Students may be accepted on probationary status at the discretion of the applied teacher and the School of Music chair. Students seeking to opt out of one of more semesters of class piano may complete a placement exam prior to the start of the semester of study.

Code	Title	Hours
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1

## Program Requirements

CIP Code: 50.0901

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT – Music majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
MUS 349	Applied Learning in Music	
MUS 482	Music Since 1900	
MUS 499	Senior Project/Recital	
MUS 550	Teaching Techniques	
MUS 551	Performance Literature	
CED 499	Clinical VI: The Professional Semester	

### Major Requirements

*Core Courses*

MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 117	Applied Music Theory I	3
MUS 118	Applied Music Theory II	3
MUS 149	Music Entrepreneurship	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1
MUS 217	Applied Music Theory III	3
MUS 218	Applied Music Theory IV	3
MUS 317	Applied Music Theory V	3
MUS 366	Basic Conducting Pedagogy	2
MUS 399	Joint Recital	0
MUS 549	Career Development	2
MUH 275	Western Musical Traditions I	2
MUH 276W	Western Musical Traditions II	2
MUH 373	The Diverse Worlds of Music	2
	Choose from a minimum of seven hours of applied primary instrument or voice over seven semesters (two credits at 100 level, two credits at 200 level, two credits at 300 level and one credit at 400 level)	7
	Choose from seven semesters of major ensembles	7
	Choose from two credits of chamber ensembles	2
MUS 101	Performance Class (Six semesters)	0

### Concentrations

Students must select one of the following Concentrations: 37-48

Music Performance	
Emphasis in Music Industry	
Emphasis in Recording Arts	
Music Theory and Composition	
Music Education	

### Supporting Course Requirements

Performance/Vocal:

Vocal Performance majors must elect three hrs of foreign language (Element 6) as part of their General Education studies. <sup>G</sup>	
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### Free Electives

Choose from 0-8 hours of free electives	0-8
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**Total Hours 120-139**

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
MUS 190	Music Industry I	2
MUS 191	Music Industry II	2
MUS 192	History of the Recording Industry	2
MUS 290	Film Scoring	2
MUS 300	Music Industry Careers & Internship Seminar	0
MUS 349	Applied Learning in Music	2
MUS 390	Music Industry III	3
MUS 391	Music Industry IV	3
MUS 449	Music Industry Senior Capstone	2

MUH 273	Survey of American Popular Music	3
Choose from nine hours of the following:		9
ACC 200	Survey of Accounting	
or ACC 201	Introduction to Financial Accounting	
MGT 301	Principles of Management (NB)	
PUB 375	Public Relations Principles	
PUB 385	PR Event Planning & Management	
PUB 415S	Public Relations in Performing Arts	
Choose from seven hours of MUS/MUH elective courses		7
<b>Total Hours</b>		<b>37</b>

## Music, Bachelor of Music with a Concentration in Music Performance (B.M.)

### Program Objectives

Upon successful completion of the Bachelor of Music program, graduates will be able to perform a recital in their major applied area, communicate effectively about the theoretical concepts in music, and identify and analyze musical works from diverse cultures and historical periods.

In addition, all music education majors will demonstrate the ability to sing, play a variety of instruments, develop lesson plans, and engage in effective teaching during a student teaching semester. All theory and composition students will demonstrate composition skills and present original compositions in public recitals as well as identifying an area of advanced analysis of musical works through a senior project. All music industry students will demonstrate music technology skills, identify trends in the many facets of this business field, and demonstrate an ability to work with professionals through cooperative learning experiences. All performance majors will prepare two performance recitals and analyze repertoire presented on those recitals, in addition to identifying different pedagogical approaches in their area.

## Bachelor of Music Core Requirements

### Applied Music

All music majors must complete a minimum of seven semesters of applied lessons with at least three of the semesters at the upper division levels (numbered 300 or 400). Applied students must complete a jury examination at the end of each semester. Each major is required to enroll in applied music every semester of full-time enrollment.

### Solo Recital Performance

Each major is required to perform the equivalent of a half recital (MUS 399 Joint Recital) during the course of study.

### Ensemble Requirements

Each major is expected to enroll in a major ensemble reflecting the major applied area of study every semester of full-time enrollment.

Wind and percussion majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 256	Marching Band	1
MUS 255A/455A	Symphonic Band	1

MUS 255B/455B	Concert Band	1
MUS 235/435	Symphony Orchestra	1

With permission of the Chair of the School of Music, MUS 254 Jazz Ensemble/MUS 454 Jazz Ensemble may be submitted for the major ensemble requirement for wind and percussion majors.

Orchestral string majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 235/435	Symphony Orchestra	1
MUS 236/436	String Orchestra	1

Some string bass majors may be assigned to MUS 255A Symphonic Band/MUS 455A Symphonic Band based on audition results.

Guitar majors will enroll in:

Code	Title	Hours
MUS 257/457	Guitar Ensemble	1
MUS 250	Small Ensembles:_____ (Electric Guitar Ensemble)	.5

Vocal majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 228A/428A	ENChor (SSAA Choir)	1
MUS 228B/428B	Koros (TTBB Choir)	1
MUS 226/426	University Singers (SATB)	1

Even if the student plans to study in two or more applied areas, one of them must be declared the major. Students enrolling in more than three ensembles must receive permission for such participation from their applied teacher, ensemble director, and advisor.

### Recital Attendance

All majors are required to attend 16 recitals including the departmental recitals and other School of Music concerts and recitals held throughout the semester (MUS 101 Performance Class) for at least six semesters. Performances off campus must receive approval by the Chair of the School of Music.

### Music Performance

All Music Performance majors must pass an audition beyond the entrance audition. They will be on probationary status for one to four semesters. At the end of the probationary period, the student may re-audition for full candidacy. The Audition Committee will consist of at least three members of the music faculty including the applied teacher. All performance majors must give a full recital (MUS 499 Senior Project/Recital) in addition to the half recital required of all majors. Vocal Performance majors must elect foreign language as part of their Gen. Ed. All Music Industry and Recording Arts majors must complete 3 or 4 credit hours of MUS 349 Applied Learning in Music and 2 credit hours of MUS 449 Music Industry Senior Capstone. All Co-op projects must be approved by the Co-op office, department chair, and Co-op coordinator.

## Admission to the Music Major Program

Admission to the Bachelor of Music programs requires a successful audition for the applicable applied teacher. The student is expected to demonstrate acceptable levels of achievement in performance in terms

of intonation, tone quality and rhythmic accuracy. Incoming students will be expected to perform two selections of contrasting styles. Students may be accepted on probationary status at the discretion of the applied teacher and the School of Music chair. Students seeking to opt out of one of more semesters of class piano may complete a placement exam prior to the start of the semester of study.

Code	Title	Hours
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1

## Program Requirements

CIP Code: 50.0901

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Music majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
MUS 349	Applied Learning in Music	
MUS 482	Music Since 1900	

MUS 499	Senior Project/Recital
MUS 550	Teaching Techniques
MUS 551	Performance Literature
CED 499	Clinical VI: The Professional Semester

### Major Requirements

<i>Core Courses</i>		
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 117	Applied Music Theory I	3
MUS 118	Applied Music Theory II	3
MUS 149	Music Entrepreneurship	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1
MUS 217	Applied Music Theory III	3
MUS 218	Applied Music Theory IV	3
MUS 317	Applied Music Theory V	3
MUS 366	Basic Conducting Pedagogy	2
MUS 399	Joint Recital	0
MUS 549	Career Development	2
MUH 275	Western Musical Traditions I	2
MUH 276W	Western Musical Traditions II	2
MUH 373	The Diverse Worlds of Music	2

Choose from a minimum of seven hours of applied primary instrument or voice over seven semesters (two credits at 100 level, two credits at 200 level, two credits at 300 level and one credit at 400 level)

Choose from seven semesters of major ensembles	7
Choose from two credits of chamber ensembles	2
MUS 101 Performance Class (six semesters)	0

### Concentrations

Students must select one of the following Concentrations:	37-48
Music Performance	
Emphasis in Music Industry	
Emphasis in Recording Arts	
Music Theory and Composition	
Music Education	

### Supporting Course Requirements

Performance/Vocal:	
Vocal Performance majors must elect three hrs of foreign language (Element 6) as part of their General Education studies. <sup>G</sup>	

### Free Electives

Choose from 0-8 hours of free electives	0-8
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**Total Hours** **120-139**

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
MUS 190	Music Industry I	2
MUS 249	The Musician's Health	2

MUS 220 & MUS 221 or MUS 285	Diction for Singers and Diction for Singers II Jazz Improvisation	2
MUS 384	Survey of Music Technology	2
MUS 373 or MUS 481	Stylistic Composition Tonal Counterpoint	2
MUS 499	Senior Project/Recital	1
MUS 482	Music Since 1900	2
MUS 501	Music Leadership	2
MUS 516	Studio Management	1
MUS 517	Arranging	2
MUS 519	Performance Temperament	2
MUS 550	Teaching Techniques	1
MUS 551	Performance Literature	1
Choose from additional five hours of applied primary instrument (two hours at 300 level and three hours at 400 level)		5
Choose from a minimum of one additional hour of ensembles		1
Choose from additional two credits of chamber ensembles		2
Choose from four hours of music performance electives		4
Choose from two hours of upper division music history electives		2
<b>Total Hours</b>		<b>36</b>

## Music, Bachelor of Music with a Concentration in Music Theory and Composition (B.M.)

### Program Objectives

Upon successful completion of the Bachelor of Music program, graduates will be able to perform a recital in their major applied area, communicate effectively about the theoretical concepts in music, and identify and analyze musical works from diverse cultures and historical periods.

In addition, all music education majors will demonstrate the ability to sing, play a variety of instruments, develop lesson plans, and engage in effective teaching during a student teaching semester. All theory and composition students will demonstrate composition skills and present original compositions in public recitals as well as identifying an area of advanced analysis of musical works through a senior project. All music industry students will demonstrate music technology skills, identify trends in the many facets of this business field, and demonstrate an ability to work with professionals through cooperative learning experiences. All performance majors will prepare two performance recitals and analyze repertoire presented on those recitals, in addition to identifying different pedagogical approaches in their area.

## Bachelor of Music Core Requirements

### Applied Music

All music majors must complete a minimum of seven semesters of applied lessons with at least three of the semesters at the upper division levels (numbered 300 or 400). Applied students must complete a jury examination at the end of each semester. Each major is required to enroll in applied music every semester of full-time enrollment.

### Solo Recital Performance

Each major is required to perform the equivalent of a half recital (MUS 399 Joint Recital) during the course of study.

### Ensemble Requirements

Each major is expected to enroll in a major ensemble reflecting the major applied area of study every semester of full-time enrollment.

Wind and percussion majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 256	Marching Band	1
MUS 255A/455A	Symphonic Band	1
MUS 255B/455B	Concert Band	1
MUS 235/435	Symphony Orchestra	1

With permission of the Chair of the School of Music, MUS 254 Jazz Ensemble/MUS 454 Jazz Ensemble may be submitted for the major ensemble requirement for wind and percussion majors.

Orchestral string majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 235/435	Symphony Orchestra	1
MUS 236/436	String Orchestra	1

Some string bass majors may be assigned to MUS 255A Symphonic Band/MUS 455A Symphonic Band based on audition results.

Guitar majors will enroll in:

Code	Title	Hours
MUS 257/457	Guitar Ensemble	1
MUS 250	Small Ensembles:_____ (Electric Guitar Ensemble)	.5

Vocal majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 228A/428A	ENChor (SSAA Choir)	1
MUS 228B/428B	Koros (TTBB Choir)	1
MUS 226/426	University Singers (SATB)	1

Even if the student plans to study in two or more applied areas, one of them must be declared the major. Students enrolling in more than three ensembles must receive permission for such participation from their applied teacher, ensemble director, and advisor.

### Recital Attendance

All majors are required to attend 16 recitals including the departmental recitals and other School of Music concerts and recitals held throughout the semester (MUS 101 Performance Class) for at least six semesters. Performances off campus must receive approval by the Chair of the School of Music.

### Music Theory and Composition

Music Theory and Composition majors must complete 3 credits of MUS 283 Beginning Composition and 8 credits of MUS 483 Composition. MUS 283 Beginning Composition is open to all music students with

permission of the instructor. Students wishing to move on to advanced composition (MUS 483 Composition) must receive the approval of the theory/composition faculty based on their performance in MUS 283 Beginning Composition. Students seeking to apply for entry into advanced composition study will submit a portfolio of their compositions. All theory and composition majors, whose major applied area is not piano, must elect two semesters of additional piano studies (MUS 112 Piano I). Music Theory and Composition students will complete a senior project (MUS 499 Senior Project/Recital) consisting of a theory project and a half recital of original compositions as part of this degree program.

## Admission to the Music Major Program

Admission to the Bachelor of Music programs requires a successful audition for the applicable applied teacher. The student is expected to demonstrate acceptable levels of achievement in performance in terms of intonation, tone quality and rhythmic accuracy. Incoming students will be expected to perform two selections of contrasting styles. Students may be accepted on probationary status at the discretion of the applied teacher and the School of Music chair. Students seeking to opt out of one of more semesters of class piano may complete a placement exam prior to the start of the semester of study.

Code	Title	Hours
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1

## Program Requirements

CIP Code: 50.0901

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Music majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
MUS 349	Applied Learning in Music	
MUS 482	Music Since 1900	
MUS 499	Senior Project/Recital	
MUS 550	Teaching Techniques	
MUS 551	Performance Literature	
CED 499	Clinical VI: The Professional Semester	

### Major Requirements

#### Core Courses

MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 117	Applied Music Theory I	3
MUS 118	Applied Music Theory II	3
MUS 149	Music Entrepreneurship	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1
MUS 217	Applied Music Theory III	3
MUS 218	Applied Music Theory IV	3
MUS 317	Applied Music Theory V	3
MUS 366	Basic Conducting Pedagogy	2
MUS 399	Joint Recital	0
MUS 549	Career Development	2
MUH 275	Western Musical Traditions I	2
MUH 276W	Western Musical Traditions II	2
MUH 373	The Diverse Worlds of Music	2
Choose from a minimum of seven hours of applied primary instrument or voice over seven semesters (two credits at 100 level, two credits at 200 level, two credits at 300 level and one credit at 400 level)		7
Choose from seven semesters of major ensembles		7
Choose from two credits of chamber ensembles		2
MUS 101	Performance Class (six semesters)	0

#### Concentrations

Students must select one of the following Concentrations: 37-48

Music Performance
Emphasis in Music Industry
Emphasis in Recording Arts
Music Theory and Composition
Music Education
<i>Supporting Course Requirements</i>

## Performance/Vocal:

Vocal Performance majors must elect three hrs of foreign language (Element 6) as part of their General Education studies. <sup>G</sup>

*Free Electives*

Choose from 0-8 hours of free electives 0-8

**Total Hours 120-139**

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
MUS 112	Piano I	2
MUS 190	Music Industry I	2
MUS 283	Beginning Composition	3
MUS 373	Stylistic Composition	2
MUS 384	Survey of Music Technology	2
MUS 482	Music Since 1900	2
MUS 483	Composition	8
MUS 484	Digital Music	2
MUS 499	Senior Project/Recital	2
MUS 511	Jazz Theory	2
MUS 517	Arranging	2
MUS 557	Symphonic and Wind Band Literature	2
or MUS 556	Choral Music Literature	
Choose from additional one hour of applied primary instrument (at 400 level)		1
Choose from additional one credit of ensembles		1
Choose from additional two credits of chamber ensembles		2
Choose from two hours of music history electives		2
<b>Total Hours</b>		<b>37</b>

## Music, Bachelor of Music with a Concentration in Recording Arts Emphasis (B.M.)

### Program Objectives

Upon successful completion of the Bachelor of Music program, graduates will be able to perform a recital in their major applied area, communicate effectively about the theoretical concepts in music, and identify and analyze musical works from diverse cultures and historical periods.

In addition, all music education majors will demonstrate the ability to sing, play a variety of instruments, develop lesson plans, and engage in effective teaching during a student teaching semester. All theory and composition students will demonstrate composition skills and present original compositions in public recitals as well as identifying an area of advanced analysis of musical works through a senior project. All music industry students will demonstrate music technology skills, identify trends in the many facets of this business field, and demonstrate an ability to work with professionals through cooperative learning experiences. All performance majors will prepare two performance

recitals and analyze repertoire presented on those recitals, in addition to identifying different pedagogical approaches in their area.

## Bachelor of Music Core Requirements

### Applied Music

All music majors must complete a minimum of seven semesters of applied lessons with at least three of the semesters at the upper division levels (numbered 300 or 400). Applied students must complete a jury examination at the end of each semester. Each major is required to enroll in applied music every semester of full-time enrollment.

### Solo Recital Performance

Each major is required to perform the equivalent of a half recital (MUS 399 Joint Recital) during the course of study.

### Ensemble Requirements

Each major is expected to enroll in a major ensemble reflecting the major applied area of study every semester of full-time enrollment.

Wind and percussion majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 256	Marching Band	1
MUS 255A/455A	Symphonic Band	1
MUS 255B/455B	Concert Band	1
MUS 235/435	Symphony Orchestra	1

With permission of the Chair of the School of Music, MUS 254 Jazz Ensemble/MUS 454 Jazz Ensemble may be submitted for the major ensemble requirement for wind and percussion majors.

Orchestral string majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 235/435	Symphony Orchestra	1
MUS 236/436	String Orchestra	1

Some string bass majors may be assigned to MUS 255A Symphonic Band/MUS 455A Symphonic Band based on audition results.

Guitar majors will enroll in:

Code	Title	Hours
MUS 257/457	Guitar Ensemble	1
MUS 250	Small Ensembles: ____ (Electric Guitar Ensemble)	.5

Vocal majors will enroll in:

Code	Title	Hours
Choose from one of the following:		
MUS 228A/428A	ENChor (SSAA Choir)	1
MUS 228B/428B	Koros (TTBB Choir)	1
MUS 226/426	University Singers (SATB)	1

Even if the student plans to study in two or more applied areas, one of them must be declared the major. Students enrolling in more than three ensembles must receive permission for such participation from their applied teacher, ensemble director, and advisor.

## Recital Attendance

All majors are required to attend 16 recitals including the departmental recitals and other School of Music concerts and recitals held throughout the semester (MUS 101 Performance Class) for at least six semesters. Performances off campus must receive approval by the Chair of the School of Music.

## Music Industry and Recording Arts

All Music Industry and Recording Arts majors must complete 3 or 4 credit hours of MUS 349 Applied Learning in Music and 2 credit hours of MUS 449 Music Industry Senior Capstone. All Co-op projects must be approved by the Co-op office, department chair, and Co-op coordinator.

## Admission to the Music Major Program

Admission to the Bachelor of Music programs requires a successful audition for the applicable applied teacher. The student is expected to demonstrate acceptable levels of achievement in performance in terms of intonation, tone quality and rhythmic accuracy. Incoming students will be expected to perform two selections of contrasting styles. Students may be accepted on probationary status at the discretion of the applied teacher and the School of Music chair. Students seeking to opt out of one of more semesters of class piano may complete a placement exam prior to the start of the semester of study.

Code	Title	Hours
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1

## Program Requirements

CIP Code: 50.0901

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
ASO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Music majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
MUS 349	Applied Learning in Music	
MUS 482	Music Since 1900	
MUS 499	Senior Project/Recital	
MUS 550	Teaching Techniques	
MUS 551	Performance Literature	
CED 499	Clinical VI: The Professional Semester	
<b>Major Requirements</b>		
<i>Core Courses</i>		
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 117	Applied Music Theory I	3
MUS 118	Applied Music Theory II	3
MUS 149	Music Entrepreneurship	1
MUS 210	Intermediate Class Piano I	1
MUS 211	Intermediate Class Piano II	1
MUS 217	Applied Music Theory III	3
MUS 218	Applied Music Theory IV	3
MUS 317	Applied Music Theory V	3
MUS 366	Basic Conducting Pedagogy	2
MUS 399	Joint Recital	0
MUS 549	Career Development	2
MUH 275	Western Musical Traditions I	2
MUH 276W	Western Musical Traditions II	2
MUH 373	The Diverse Worlds of Music	2
Choose from a minimum of seven hours of applied primary instrument or voice over seven semesters (two credits at 100 level, two credits at 200 level, two credits at 300 level and one credit at 400 level)		7
Choose from seven semesters of major ensembles		7
Choose from two credits of chamber ensembles		2
MUS 101	Performance Class (six semesters)	0
<b>Concentrations</b>		
Students must select one of the following Concentrations:		37-48
Music Performance		
Emphasis in Music Industry		
Emphasis in Recording Arts		
Music Theory and Composition		
Music Education		
<i>Supporting Course Requirements</i>		

Performance/Vocal:

Vocal Performance majors must elect three hrs of foreign language (Element 6) as part of their General Education studies. <sup>G</sup>	
<i>Free Electives</i>	
Choose from 0-8 hours of free electives	0-8
<b>Total Hours</b>	<b>120-139</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
MUS 190	Music Industry I	2
MUS 191	Music Industry II	2
MUS 192	History of the Recording Industry	2
MUS 290	Film Scoring	2
MUS 292	Fundamentals in Audio Production	2
MUS 300	Music Industry Careers & Internship Seminar	0
MUS 349	Applied Learning in Music	2
MUS 390	Music Industry III	3
MUS 391	Music Industry IV	3
MUS 392	Microphone Placement Techniques	2
MUS 492	Advanced Mixing	2
MUS 449	Music Industry Senior Capstone	2
MUH 273	Survey of American Popular Music	3
Choose from nine hours of the following:		9
ACC 200 or ACC 201	Survey of Accounting Introduction to Financial Accounting	
MGT 301	Principles of Management (NB)	
PUB 375	Public Relations Principles	
PUB 385	PR Event Planning & Management	
PUB 415S	Public Relations in Performing Arts	
Choose from one hour of MUS/MUH elective		1
<b>Total Hours</b>		<b>37</b>

**Music, Minor**

**Program Requirements**

Code	Title	Hours
<b>Required Courses</b>		
MUS 110	Beginning Class Piano I	1
MUS 111	Beginning Class Piano II	1
MUS 117	Applied Music Theory I	3
MUS 118	Applied Music Theory II	3
MUH 275	Western Musical Traditions I	2
MUH 276W	Western Musical Traditions II	2
Choose from two hours of applied lessons at the 100 level		2
Choose from two hours of applied lessons at the 200 level		2
Choose from two hours of electives in music		2
<b>Total Hours</b>		<b>18</b>

**Musical Theatre, Departmental Certificate**

**Program Requirements**

Code	Title	Hours
<b>Certificate Requirements</b>		
MUT 130		2
MUT 135	Voice and Movement for the Actor	3
MUT 280	Acting for Musical Theatre	3
MUT 285	Theatre Dance I	2
MUS 122	Voice I	2
<b>Total Hours</b>		<b>12</b>

**Musical Theatre, Minor**

**Program Requirements**

Code	Title	Hours
<b>Required Courses</b>		
MUT 135	Voice and Movement for the Actor	3
MUT 250	Musical Theatre Ensemble	2
MUT 280	Acting for Musical Theatre	3
MUT 285	Theatre Dance I	2
MUT 385	Theatre Dance II	2
Choose from two hours of applied lessons at the 100 level		2
Choose from two hours of applied lessons at the 200 level		2
Choose from two hours of electives in music		2
<b>Total Hours</b>		<b>18</b>

**College of Science, Technology, Engineering, and Mathematics**

Dr. Tom Otieno, Dean  
 Science Building 1228  
 (859) 622-1405

Dr. Tim Ross, Associate Dean  
 (859) 622-8140

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The College of Science, Technology, Engineering, and Mathematics offers associate, baccalaureate, and masters programs in a number of disciplines encompassing the natural and mathematical sciences, technology, and engineering. The college also offers pre-professional programs in pre-dental, pre-engineering, pre-optometry, pre-physician associate, pre-pharmacy, pre-veterinary, and pre-medical sciences; minors in Agriculture, Aerospace Management, Engineering Technology Management, Aviation (Flight), Construction Management, Land Surveying, Quality Assurance Technology, Biology, Chemistry, Chemistry/Teaching, Computer Science, Informatics, Computer Electronics Technology, Cybersecurity and Intelligence, Earth Science Teaching, Forensic Science, Game Content Design, Geography, Geology, Mathematics, Mathematical Sciences, Mathematics/ Teaching, Statistics, Actuarial Science, Physics and Physics Teaching, and Pre-Professional Health; and certificate programs in Companion Animal Management, Crops, Soils, and Resource Conservation, Greenhouse and Fruit/

Vegetable Production, Land Surveying, Landscape Horticulture, Livestock Management, Turfgrass Management, Environmental Education, Artificial Intelligence in Data Science, Cyber Security and Digital Forensics, Cyber Systems and Network Security, Game Design, Informatics, Fermentation, Fermentation Science, Environmental Geosciences, Geographic Information Systems (GIS), and Applied Data Science.

The College of Science, Technology, Engineering, and Mathematics (STEM) plays a central role in the University's general education program through which all University students are provided the opportunity to develop the skills, the knowledge, and the discernment essential to the full development of each person as an individual and as a member of society.

Through its disciplines, the College of STEM strives to provide all students an excellent education with the most complete and current resources; to provide service to the University and to the community through its academic programs; and to encourage and support research in all the disciplines included in the College.

## Degrees Offered

The College of STEM offers the following degrees: Bachelor of Science, Bachelor of Arts, and Associate of Applied Sciences.

## College Degree Requirements

General University degree requirements as set forth in Section Four of this *Catalog* as well as specific course requirements set forth in the descriptive curricula must be met by students completing programs administered by the College. All students graduating with majors in the College of must have a 2.0 GPA in the major exclusive of any supporting courses. Students pursuing a minor in the College must have a minimum 2.0 GPA in the minor. At least twenty-five percent of the courses in the major must be taken at Eastern Kentucky University. In addition, individual programs may have specific requirements that exceed College requirements. Students should consult with an advisor or department chair to learn the particular requirements of a program.

## Department of Agriculture

### Interim Chair

(859) 622-2228  
Carter 2

### Faculty

J. Domenghini, C. Hagan, J. Kenealy, K. Luitel, M. McDermott, J. Settimi, and A. Sexton

The Department of Agriculture offers Bachelor of Science and Associate of Applied Science degrees in Agriculture and Animal and Veterinary Sciences. Concentrations in the Agriculture degree program include Agribusiness Management, Fruit, Vegetable, Nursery and Greenhouse Production, Livestock Management, Agriculture Engineering Technology, Turfgrass and Landscape Management, and Agronomy, Soils and Natural Resources. Concentrations in the Animal and Veterinary Sciences degree program include Animal Science and Pre-Veterinary Medicine. The Department also offers a degree program for Career and Technical Education – Agriculture Education Concentration in collaboration with the College of Education and Applied Human Sciences.

A minor is offered in Agriculture. Students may receive the Associate degree and then continue for a Bachelors degree with no loss of

credit. Students must obtain a "C" average in Department classes. The Pre-Veterinary Medicine program has an excellent veterinary school acceptance rate. More detailed information can be obtained by reading the section on Pre-Veterinary medicine.

Students have ample opportunities to personalize their education. Academic credit can be earned for Cooperative Education. Students may receive up to eight hours of Co-Op credit for the Associate Degree and 12 for the Bachelor of Science Degree. Students can also obtain credit for experiential learning in the Department's facilities through practicum courses. In addition, students are encouraged to participate in Independent Studies with faculty mentors.

## Department Goals

The Department of Agriculture's vision is to be the first choice of students interested in addressing issues relating to food, energy, and the human environment within a sound economic framework.

The mission of the Department of Agriculture is to provide programs designed to develop leaders, entrepreneurs and educators for the global challenges in which agriculture plays a significant role. Areas of study include Pre-Veterinary Medicine, Agriculture Education, Agricultural Business, Food Production, the Human Environment, and Agriculture Engineering Technology.

Programs in the Department stress the latest technical information with applications through required laboratories and practicums at the University farms or through cooperative education. The Department operates greenhouses, fruit and vegetable plots, a plant nursery and specimen garden and turf plots to support the horticultural instruction area. The University also owns and operates approximately 1000 acres devoted to the programs in agriculture. This includes state of the art facilities for beef, dairy, swine, sheep and crop enterprises.

The Department will also provide service to the University, community, region, profession, and industry; provide opportunities for faculty/staff/student collaboration in scholarly and creative activities; and engage in continuous improvement processes to ensure its programs, services, and infrastructure are current and relevant.

EKU Farms will provide a technologically current, high quality learning environment for instruction. It will demonstrate agricultural practices and techniques that are consistent with the instructional program, are environmentally sound and have practical application. Information will also be disseminated to the regional agricultural community. EKU Farms will also promote and conduct service activities such as field days, tours, seminars, demonstrations, meetings, and open houses to serve the needs of diverse consumer groups.

## Program Objectives

Graduates in the agriculture area are well trained for careers in many diverse aspects of agriculture such as government agencies (Kentucky Department of Agriculture, USDA, Cooperative Extension Service, NRCS), 4-H programs, soil conservation, farm management and operations, agribusiness including agriculture financial agencies/institutions, sales, feed sales, food plant supervision, retail-store management, technical service, agriculture education Career and Technical Education, and the livestock industry, to name a few. Students can also continue their education in graduate school or in veterinary medicine.

## Animal and Veterinary Sciences

In Animal and Veterinary Sciences, students will receive hands on training in animal handling and research that will include opportunities to work directly with both large and small animals. The Pre-Veterinary curriculum will allow students to meet entrance requirements for veterinary schools throughout the United States and abroad. The rigorous coursework will also prepare students to pursue advanced degrees in veterinary science, animal science, human medicine, biomedical science, biotechnology, genetics, nutrition, microbiology, reproduction, behavior, or any of the other basic sciences. The Animal Science curriculum will provide career training allowing graduates to pursue a wide array of opportunities in the public and private sector in areas such as pharmaceutical and feed sales, farm management, biotechnology research and development, communication and marketing consultant, food science, agriculture finance and banking, extension and 4-H agents, government agency employees, and pursuing advanced degrees.

## Horticulture

In the horticulture area, the abundance of hands-on practical experiences allow graduates in the horticulture programs to pursue careers in the regional and local food industry, the turf industry as golf course superintendents, sports turf managers, sales and service areas, professional landscape industry, the nursery industry, and in the greenhouse industry.

## Career and Technical Education - Agriculture Education Concentration

Graduates of the BS degree program in Career and Technical Education - Agriculture Education Concentration are prepared for teaching careers in secondary schools. They are prepared to lead programs in horticulture and agriculture and to advise their chapter's FFA members in carrying out their annual program of activities.

Numerous opportunities are available for extracurricular activities to complement the academic training. These include the Agriculture Club, Horticulture Club, Delta Tau Alpha (honorary society), student chapter of the Golf Course Superintendents Association of America, and Pre-Vet Club. Numerous local and national trips are taken to expand students' learning experiences.

## Bachelor's

- Agriculture, Bachelor of Science with a Concentration in Agribusiness Management (B.S.) (p. 421)
- Agriculture, Bachelor of Science with a Concentration in Agriculture Engineering Technology (B.S.) (p. 423)
- Agriculture, Bachelor of Science with a Concentration in Agronomy, Soils and Natural Resources (B.S.) (p. 424)
- Agriculture, Bachelor of Science with a Concentration in Fruit, Vegetable, Nursery and Greenhouse Production (B.S.) (p. 425)
- Agriculture, Bachelor of Science with a Concentration in Livestock Management (B.S.) (p. 427)
- Agriculture, Bachelor of Science with a Concentration in Turfgrass and Landscape (B.S.) (p. 428)
- Animal and Veterinary Sciences, Bachelor of Science with a Concentration in Animal Science (B.S.) (p. 429)
- Animal and Veterinary Sciences, Bachelor of Science with a Concentration in Pre-Veterinary (B.S.) (p. 431)
- Career and Technical Education/Teaching, Bachelor of Science (B.S.) - Agriculture Education Teacher Certification (p. 433)

## Associate's

- Technical Agriculture, Associate of Applied Science (A.A.S.) (p. 435)

## Minor

- Agriculture, Minor (p. 429)

## Certificate

- Animal Science, Certificate (p. 432)
- Crops, Soils and Resource Conservation, Certificate (p. 434)
- Greenhouse and Fruit/Vegetable Production, Certificate (p. 434)
- Turfgrass and Landscape Horticulture, Certificate (p. 436)

## Courses

### Agriculture

#### AGR 105. Introductory Topics in Agriculture. (3 Credits)

I, II. A non-structured course for incoming students who have met the secondary skills standard examination requirements in the area of agriculture. Departmental chair approval required prior to enrollment. May be taken to a maximum of 6 hours.

#### AGR 111. Introduction to American Agriculture. (3 Credits)

A. An overview of the agriculture industry in the United States including significant past events, current status and trends. Complexities of laws and regulations and their influence on the producer and consumer.

#### AGR 115. Operation of Agricultural Equipment. (2 Credits)

(2) I. Lecture, laboratory and field experiences related to agricultural power equipment, and their safe operation, including hydraulics, electricity, chemical, and processing & handling facilities. 1 Lec/2 Lab.

#### AGR 125. Principles of Animal Science. (3 Credits)

I. Corequisite: AGR 126. Management and production of livestock enterprises; types, market classes, and grades of beef cattle, sheep and swine, and the breeds and products of dairy cattle.

#### AGR 126. Animal Science Laboratory. (1 Credit)

I. Corequisite: AGR 125. Applied principles in the proper handling, restraint, and management techniques in beef, dairy, sheep, swine, and horses.

#### AGR 130. Plant Science. (3 Credits)

I. Corequisite: AGR 131. Principles of plant growth, reproduction, and plant-soil relationships. Provides foundations of information for further study in agricultural and horticultural crop production and soil management. Credit will not be awarded to students who have credit for OHO 131.

#### AGR 131. Plant Science Laboratory. (1 Credit)

I. Corequisite: AGR 130. Laboratory and field experiences related to plant growth, development, and management of crops. Credit will not be awarded to students who have credit for OHO 132.

#### AGR 170. Appl Unmanned Aerial Sys Agri. (3 Credits)

I. Introduction to the application of UAS/drones in agriculture. Typical applications and an overview of foundational skills needed to safely operate UAS systems in the U.S. airspace. 2 Lec/2 Lab.

**AGR 213. Principles of Agricultural Mechanics and Energy Systems. (3 Credits)**

I, II. Principles of operation, maintenance, and repair of electrical motors; basic electrical circuits, electrical power generation and electrical controls for agricultural mechanization systems and power requirements for agricultural structures; theoretical and practical experience.

**AGR 215. Principles of Soils. (3 Credits)**

I, II. Corequisite: AGR216. Soil origin, classification and properties, soil conservation, soil microorganisms, organic matter, soil water, soil minerals, lime and commercial fertilizers, soil erosion, soil management.

**AGR 216. Principles of Soils Laboratory. (1 Credit)**

(1) I,II. Corequisite: AGR 215. Laboratory and field experiences related to soils, and their properties, including soil sampling, fertility, pH, liming, water and texture. 2 Lab.

**AGR 225. Evaluation and Selection of Livestock. (3 Credits)**

II. An evaluation of dairy cattle, beef cattle, swine and sheep; use of records, body type ratings, and carcass information as they relate to functional anatomy and efficiency of production; sire selection and pedigree interpretation. 2 Lec/2 Lab.

**AGR 250. Introduction to Horses. (3 Credits)**

A. History and role of horses and the equine industry, breeds of horses and ponies for work and pleasure, includes terminology, management and responsibilities, breeding, pests, current issues and care of horses.

**AGR 255. Companion Animal Management. (3 Credits)**

A. Care and management of dogs, cats, rabbits, birds, reptiles and tropical fish. Companion animal breeds, behavior, nutrition, genetics and reproduction will be emphasized.

**AGR 300. Travel Study in Agriculture Technology. (1-6 Credits)**

A. A travel course for groups and individuals in agriculture and horticulture to study new and emerging technologies in agriculture and horticulture, structural organizations of agricultural enterprises, and professional and interpersonal relationships. May be retaken once.

**AGR 301. Directed Work Experience. (1-4 Credits)**

I, II. Agriculture majors only; minimum sophomore standing or departmental approval. A minimum of three hours per week per hour of credit using university or other approved facilities. May be retaken for a maximum of 4 credit hours.

**AGR 302. Directed Work Experience- Management Practicum. (3 Credits)**

I, II. Student will schedule nine hours of work per week during the semester on a university farm to practice management and production skills related to a livestock herd or machinery operations. Options may be taken to a maximum of 12 hours. AGR 302A Agricultural Mechanization Option. AGR 302B Beef Cattle Option. AGR 302C Swine Option. AGR 302D Dairy Cattle Option. AGR 302E Crops Option. AGR 302F Sheep Option. AGR 304 Pest Management. (4) II. Identification of the principal agriculture and horticulture insect disease and weed pests in Kentucky. Control measures are identified with special emphasis on the safe use of chemicals and equipment calibration.

**AGR 302A. Agricultural Mechanization Option. (3 Credits)****AGR 302B. Beef Cattle Option. (3 Credits)****AGR 302C. Swine Option. (3 Credits)****AGR 302D. Dairy Cattle Option. (3 Credits)****AGR 302E. Crops Option. (3 Credits)****AGR 302F. Sheep Option. (3 Credits)****AGR 304. Pest Management. (4 Credits)**

Identification of the principal agriculture and horticulture insect disease and weed pests in Kentucky. Control measures are identified with special emphasis on the safe use of chemicals and equipment calibration. Credit will not be awarded for both AGR 304 and OHO 304. 3 Lec/2 Lab.

**AGR 305. Professional Skills Seminar. (1 Credit)**

A. Prerequisite: completion of 30 hours in the Associate or more than 60 hours and less than 90 hours in the Bachelor Degree Program. Course prepares students for the job market including; resume development, cover letter preparation, job interview skills and oral presentations.

**AGR 308. Agricultural Economics. (3 Credits)**

I, II. Prerequisite: ECO 120. An introduction to the economic environment of the agribusiness sector. Examines the role of agriculture in the U.S. and world economies. Includes concepts and principles concerning individual agribusiness decision making.

**AGR 310. Principles of Agribusiness Management. (3 Credits)**

II. Prerequisite: AGR 308. Organization and operation of the farm related agricultural business with emphasis on budgeting, enterprise selection, financial statements, and resource management. Includes microcomputer applications and survey of government regulations that are applicable to topic.

**AGR 311. Agriculture Metal Fabrication. (2 Credits)**

A. Principles and techniques of arc and oxyacetylene welding and soldering as it pertains to fabrication and repair of agriculture machinery and equipment. 1 Lec/2 Lab.

**AGR 312. Ecology and Management of Grasslands and Pastures. (4 Credits)**

II. Prerequisites: AGR 130 and 131, and Junior standing. Examination of grasslands and pastures from an ecological perspective with an emphasis on wildlife and livestock management. 3 Lec/2 Lab.

**AGR 318. Soil/Water Conservation Technology. (3 Credits)**

A, I. Principles and procedures for basic surveying and soil-water conservation systems. This will include how rainfall, run-off, erosion, contours, ponds, lagoons, drainage, and irrigation interact with the desired conservation system. 2 Lec/2 Lab.

**AGR 319. Renewable and Sustainable Energy Systems. (3 Credits)**

(3) II. Crosslisted as ENV 319. Prerequisite: ENG 102 or ENG 105 (B) or HON 102; and MAT 105 or higher. Principles of energy and how those needs can potentially be met in the future will be discussed. Comparisons of existing energy sources (fossil fuels, nuclear power) with renewable sources (biomass, solar, and tidal). Credit will not be awarded for both AGR 319 and ENV 319.

**AGR 321. Feeds and Feeding. (4 Credits)**

I. Feeds used in livestock feeding; including harvesting, storage, feeding characteristics, and ration formulation from these feedstuffs. 3 Lec/2 Lab.

**AGR 326. Light Horse Production and Management. (4 Credits)**

A. Prerequisite: AGR 125 and 126, AGR 250, or Departmental Approval. Size and scope of horse industry, conformation and selection of horses, basics of equine nutrition and reproduction. Signs of health and illness. Routine health care procedures. 3 Lec/2 Lab.

**AGR 327. Beef Production. (4 Credits)**

I. Prerequisites: AGR 125 and 126. History, importance, and trends associated with the beef cattle industry; systems of selecting, breeding, feeding, marketing, and management of beef cattle. 3 Lec/2 Lab.

**AGR 328. Swine Production. (4 Credits)**

A. Prerequisites: AGR 125 and 126. History, importance, and trends associated with the swine industry; systems of selecting, breeding, feeding, marketing, and management of swine. 3 Lec/2 Lab.

**AGR 329. Sheep and Goat Production. (4 Credits)**

(4). A. Prerequisite: AGR125 and 126. An overview of the sheep and goat industry. Topics include selection, breeding, reproduction, health, nutrition, management, and marketing of sheep and goats and their products. 3 Lec/2 Lab.

**AGR 330. Animal Products. (3 Credits)**

A. Prerequisites: AGR 125 and 126. Principles of grading, cutting, identifying, pricing, and consumer evaluation of poultry, beef, pork, and lamb cuts, and related products. 2 LEC/2Lab.

**AGR 332. Poultry Production and Management. (3 Credits)**

A. Prerequisites: AGR 125 & 126. An overview of the poultry industry focused on industry trends, breeds, management, environmental impacts, bird welfare, food safety, and product quality. Students will acquire practical experience in poultry production and product evaluation. 2 Lec/2 Lab.

**AGR 340. Conservation of Agricultural Resources. (3 Credits)**

(3) A. Crosslisted as ENV 341. Prerequisite: any ENV or OHO course. Conservation of soils and their fertility, erosion and control, soil conservation methods for individual farms, water supply and distribution, problems of water and air pollution, problems resulting from the population explosion. Credit will not be awarded for both AGR 340 and ENV 341.

**AGR 345. Sustainable Agroecosystems. (3 Credits)**

A, I. Prerequisites: any course in chemistry, AGR 130, and 131; or OHO 131 and 132 or BIO 131. A comprehensive study of new technology related to crop, and pest management practices which could enhance economic returns, environmental quality, and the resource base for the short and long term.

**AGR 349. Applied Learning in Agriculture. (0.5-8 Credits)**

A. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**AGR 350. Agricultural Marketing. (3 Credits)**

A. A study of concepts, principles and practices of marketing as related to the agribusiness system. Emphasis on agricultural input, production and processing/manufacturing sectors. Includes agriculture futures commodity market theory, mechanics and practical applications.

**AGR 362. Hydraulic Systems. (2 Credits)**

A. A study of basic principles of hydraulic systems and their application to agricultural and turf equipment. Lab experiences will provide familiarity and practice with equipment. 1 Lec/2 Lab.

**AGR 372. Topics and Laboratories in Animal Sciences. (2-6 Credits)**

A. May be taken to a maximum of six hours, provided the topics are different. Lec/Lab hours will vary depending on topic.

**AGR 373. Animal Diseases. (4 Credits)**

I. Prerequisite: six hours of animal science. Lecture topics include common diseases infecting domestic animals focusing on their treatment, prevention, and eradication. Laboratory content will focus on basic lab techniques and diagnostic methods. Prior completion of AGR 376 is recommended. 3 Lec/2 lab.

**AGR 374. Genetics of Livestock Improvement. (3 Credits)**

II. Prerequisite: AGR 125 and AGR 126. An introduction to Mendelian, molecular, quantitative, and population genetics. Applied genetic principles of improving farm animals including crossbreeding, inbreeding, and other mating plans. Study and practice modern genetic laboratory techniques. 2 Lec/2 Lab.

**AGR 375. Reproduction and Artificial Insemination of Domestic Animals. (4 Credits)**

A. Prerequisite: AGR 125 and AGR 126. The study of anatomical structures and physiological processes that control reproduction across species. This will include reproductive system development, spermatogenesis, female cycles, reproductive behavior, fertility, pregnancy, parturition, and lactation. Practice in artificial insemination and experience with pregnancy diagnosis in domestic animals. 3 Lec/2 Lab.

**AGR 376. Domestic Animal Anatomy. (4 Credits)**

A. Prerequisites: AGR 125 and 126. Fundamental anatomy of bones, muscles and organs of domestic animals, with a focus on comparative anatomy and how form dictates function. Practical experience with a whole-systems approach utilizing anatomical models and specimen dissections. 3 Lec/2 Lab.

**AGR 377. Livestock Behavior and Welfare. (3 Credits)**

A. Prerequisite: AGR 125 and 126. An introduction to animal behavior and its implications for animal welfare in modern animal husbandry. History of the animal welfare movement, current standards and applications in production settings will also be discussed. Students will engage in field trips and/or hands-on experiences to support learning outcomes and learn proper animal handling techniques. 2 Lec/2 Lab.

**AGR 380. Technical Management of Dairy Cattle. (4 Credits)**

I. Prerequisites: AGR 125 and 126. History, economics and nutritional importance and trends associated with the dairy industry including systems of selecting, breeding, feeding, sanitation, housing, marketing and management for financial success emphasizing both the cow and herd management. 3 Lec/2 Lab.

**AGR 381. Agriculture Structures. (3 Credits)**

I. Study the principles of planning, drawing, locating, and constructing farm livestock and materials handling facilities. Also, develop an understanding of closely related structure aspects: such as, environmental control, waste management, ventilation, and structure design. 2 Lec/2 Lab.

**AGR 383. Diesel Power Systems. (3 Credits)**

I. Study of the operation, maintenance, and repair of agricultural diesel powered systems; includes electrical systems, fuels, injection pumps, and nozzles laboratory practice. 2 Lec/2 Lab.

**AGR 404. Advanced Pest Management. (3 Credits)**

(3) II. Prerequisite: AGR 304 or OHO 304. Physical, biological, chemical, cultural, and genetic control of insects, weeds, and diseases. Specific emphasis on the science behind pest controls and use of organic and/or sustainable control methods.

**AGR 409. Agriculture Business Records and Analysis. (3 Credits)**

I. Management and analysis of record systems for decision support involving organization, enterprise selection, and operation of agricultural and horticultural businesses.

**AGR 410. Independent Study in Agriculture: \_\_\_\_\_. (1-3 Credits)**

I, II. Prerequisite: Departmental approval. Cross listed as OHO 410. Students choose a problem and work under the supervision of the instructor in the field of the problem. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken for a maximum of 6 credit hours, providing additional study projects differ. Credit will not be awarded to students who have credit for OHO 410.

**AGR 411. Senior Seminar. (1 Credit)**

I, II. Prerequisite: senior standing. Preparation of graduates to enter the job market. Students complete oral presentations, resumes, job applications, cover letters, job interviews and register with CD and P. Includes overall assessment of the graduate and department curriculum.

**AGR 416. Soil Fertility and Management. (3 Credits)**

(3) A. Prerequisite: AGR 215. Management of soils in turfgrass, vegetable and crop production. Topics include soil fertility and various soil amendments such as lime, organic and inorganic fertilizers, soil fertility programs, problem soils, and soil conservation.

**AGR 421. Animal Nutrition. (3 Credits)**

II. Prerequisite: AGR 321 or instructor approval. Principles of nutrition basic to modern livestock feeding; symptoms of nutrient deficiencies, nutritional disorders, metabolism of nutrients, feed additives, and modern methods of feed preparation and feeding.

**AGR 430. Field Crop Production. (3 Credits)**

(3). A. Prerequisite: AGR 130 and 131 or OHO 131 and 132. Advanced study of crop production theories and practices for agronomic crops. Topics include ecological, physiological and economic aspects of production of currently relevant crops.

**AGR 440. Agricultural Financing. (3 Credits)**

II. Uses and types of agricultural credit, credit institutions, and relating credit needs to farm enterprises.

**AGR 499. Agricultural Advocacy and Issues Capstone. (3 Credits)**

(3). A. Prerequisite: Junior or Senior standing. Development of critical thinking skills, debates of current issues facing agriculture, and training to become agriculture advocates.

**AGR 501. Independent Study in Agriculture:\_\_\_\_\_. (3 Credits)**

A. A course for exceptional seniors involving independent study and research related to problems of a theoretical and/or practical nature. May be retaken to a maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**AGR 509. Agriculture Research Methods and Interpretation. (3 Credits)**

I. Prerequisite: Junior or Senior standing. Explores the scientific underpinnings of modern agriculture and adaptive management, including: the scientific method, observation, experimentation, and data interpretation with an examination of fallacies that masquerade as science.

**AGR 520. Global Food Systems. (3 Credits)**

A. Prerequisite: AGR 308. A wide-ranging examination of various domestic and international food systems. The supply chain will be analyzed from field to farm gate through marketing and transportation to the consumer. Emphasis on the economics of the food supply chain.

**AGR 570. Advanced Technical Agriculture:\_\_\_\_. (3 Credits)**

A. Advanced study of agriculture with emphasis on updating, understanding, and developing competency in recent technology. May be retaken to a maximum of nine hours provided the topic varies.

**AGR 577. Workshop in the Conservation on Natural Resources. (3 Credits)**

A. For teachers returning for graduate work. Instruction is given in the areas of soil, water, fish and wildlife, forest conservation, and methods of teaching related units at the elementary and junior high level.

**Ornamental Horticulture****OHO 115. Operation of Horticultural Equipment. (2 Credits)**

(2) I. Lecture, laboratory and field experiences related to horticultural power equipment, and their safe operation, including hydraulics, electricity chemical and maintenance facilities. 1 Lec/2 Lab.

**OHO 131. Plant Science. (3 Credits)**

A. Corequisite: OHO 132. Principles of plant growth, reproduction and plant-soil relationships. Provides foundations of information for further study in agricultural and horticultural crop production and soil management. Credit will not be awarded to students who have credit for AGR 130.

**OHO 132. Plant Science Laboratory. (1 Credit)**

I. Corequisite: OHO 131. Laboratory and field experiences related to plant growth, development, and management of crops. Credit will not be awarded to students who have credit for AGR 131.

**OHO 301. Directed Work Experience. (1-4 Credits)**

I, II. A minimum of three hours per week per hour of credit using university or other approved facilities. May be retaken for a maximum of 4 credit hours.

**OHO 304. Horticulture Pest Management. (4 Credits)**

(4). II. Identification of the principle horticulture insect, disease, and weed pests in the transition zone. Control measures are identified with special emphasis on the safe use of chemicals and equipment calibration. Credit will not be awarded for both OHO 304 and AGR 304. 3 Lec/2 Lab.

**OHO 349. Applied Learning in Horticulture. (1-8 Credits)**

A. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**OHO 351. Turf Grass Management. (4 Credits)**

I. Prerequisite: AGR 215. The establishment and maintenance of greenspaces utilizing turfgrass species and cultivars adapted to variable intensities of culture. Relationships of environmental factors and cultural practices are emphasized. 3 Lec/2 Lab.

**OHO 353. Sports Turf Management. (3 Credits)**

(3) A. Management techniques for today's specialized athletic fields. The agronomic aspects of football, soccer, baseball, and some specialty fields are presented. Field trips and classroom exercises develop a practical understanding of field construction and management.

**OHO 354. Irrigation Systems and Horticultural Equipment. (3 Credits)**

I. An introduction to irrigation systems, their design and installation for efficient water utilization. Lecture and field experiences related to horticultural power equipment and their safe operation. 2 Lec/ 2 Lab.

**OHO 362. Topics in Landscape Gardening. (1 Credit)**

A. Students may enroll once in each topic for a total of seven hours. OHO 362A Home Landscape Option. OHO 362D Disease and Insect Control Option. OHO 362E Floral Design Option. (2 credit hours: 1 Lec/2 Lab) OHO 362F Lawn Establishment and Maintenance Option. OHO 362G Problems of Golf Course Operation Option. OHO 362K Interior Plantscaping Option.

**OHO 362E. Floral Design Option. (2 Credits)**

A. An Option in Landscape Gardening.

**OHO 362G. Problems of Golf Course Operation Option. (1 Credit)****OHO 364. Advanced Floral Design. (2 Credits)**

A. The study and practice of advanced floral design techniques; includes construction of conventional and contemporary floral designs. 1 Lec/2 Lab.

**OHO 365. Plant Identification. (3 Credits)**

I. Study of plants used in horticulture (including landscape and specialty crops) including their biological identification, ornamental features, environmental adaptation, utilization, and management. 2Lec/2Lab.

**OHO 366. Plant Identification. (2 Credits)**

A. Study of plants used in landscaping and nursery production including their biological identification, ornamental features, environmental adaptation, utilization, and management 1 Lec/2 Lab.

**OHO 368. Landscape Design Using CAD. (2 Credits)**

(2) I. Introduces computer aided design (CAD) for landscape design. The course also provides experience in the use of commercially available programs for landscape design, project management, pricing, and bid preparation. 4 Lab.

**OHO 370. Landscape Operations Management. (3 Credits)**

II. Management of labor, estimating and bidding along with basic maintenance of trees, shrubs, and herbaceous plants in the landscape operation. 2 Lec/2 Lab.

**OHO 372. Horticulture Retail and Wholesale Management. (2 Credits)**

A. The design, development, and management of a retail/wholesale outlet for horticultural products. Students will develop a model retail/wholesale business including all phases of applied sciences such as business record keeping. 1 Lec/2 Lab.

**OHO 373. Fruit Production. (3 Credits)**

(3) a. Study of domestic and commercial production practices of fruits including identification, agricultural and environmental characteristics, horticulture, and marketing. Fruits include tree fruits, vines, brambles, and soft fruits. 2 Lec/2 Lab.

**OHO 374. Vegetable Production. (3 Credits)**

(3) A. Study of domestic and commercial production of vegetables including identification, agricultural and environmental characteristics, horticulture, and marketing. 2 Lec/2 Lab.

**OHO 375. Post Harvest Technology of Horticultural Crops. (3 Credits)**

(3) A. The science and procedures for handling, packaging, storing and transporting fresh fruits, vegetables and ornamentals.

**OHO 388. Greenhouse Operation and Management. (3 Credits)**

II. Plant propagation and growing techniques in a greenhouse. The student learns operation procedures and the economics of operating a greenhouse and using cold and hot frames. 2 Lec/2 Lab.

**OHO 391. Landscape Design and Methods. (3 Credits)**

A. Prerequisite: OHO 365. Elements of design and the execution of the landscape architect plan, introduction to CAD and project management. 1 Lec/4 Lab.

**OHO 392. Landscape Construction Techniques. (3 Credits)**

II. Comprehensive study of common landscape construction materials and their use in current landscape applications. Class will include laboratory exercises involving the construction of such components as retaining walls, water features, decks, and patios.

**OHO 410. Independent Study in Horticulture:\_\_\_\_. (1-3 Credits)**

I, II. Prerequisite: Departmental approval. Cross listed as AGR 410. Students choose a problem and work under the supervision of the instructor in the field of the problem. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken for a maximum of 6 credit hours provided topics are different. Credit will not be awarded to students who have credit for AGR 410.

**OHO 498. Turf Grass Capstone. (3 Credits)**

(3) A. Prerequisites: OHO351 or 353, and Junior or Senior standing. A comprehensive review of information pertinent to managing turfgrass areas that will enhance graduate's ability to stay within budget, stay on task with seasonal work, and prepare for industry offered certification exams.

**OHO 499. Horticultural Issues Capstone. (3 Credits)**

(3) A. Prerequisite: OHO 349 and Junior or Senior standing. This course provides students with an in-depth examination of the issues facing contemporary horticultural managers including management principles, ethical considerations, and delivery of a quality product or service.

## Agriculture, Bachelor of Science with a Concentration in Agribusiness Management (B.S.)

### Program Requirements

CIP Code: 01.0301

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Agriculture majors will fulfill ACCT with the following. (Credit hours may be incorporated into program requirements below.)		
Choose from one of the following:		
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	
<b>Major Requirements</b>		
<i>College Requirement: Professional Skills Seminar</i>		
BUS 400	Professional Development Four (CR only, no hours)	0
<i>Core Courses</i>		
Choose from one of the following:		4
AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	
AGR 115	Operation of Agricultural Equipment	2
AGR 170	Appl Unmanned Aerial Sys Agri	3
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 310	Principles of Agribusiness Management	3
AGR 319	Renewable and Sustainable Energy Systems	3
AGR 340	Conservation of Agricultural Resources	3
AGR 411	Senior Seminar	1
<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Agribusiness Management		43-47
Agriculture Engineering Technology		
Agronomy, Soils and Natural Resources		
Livestock Management		
Fruit, Vegetable, Nursery and Greenhouse Production		
Turfgrass and Landscape		
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
	or BIO 112 Ecology and Evolution	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	

ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
Choose from one of the following:		3
CIS 212	Introduction to Computer Information Systems	
INF 104	Computer Literacy with Software Applications	
TEC 161	Computer Applications in Technology	
See Additional Supporting Course Requirements on individual Concentration lists		0-3
<i>Program Electives</i>		
Choose from 15 hours of program electives		15
<b>Total Hours</b>		<b>132-139</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
AGR 350	Agricultural Marketing	3
AGR 409	Agriculture Business Records and Analysis	3
AGR 440	Agricultural Financing	3
AGR 520	Global Food Systems	3
Choose from one of the following programs:		9-12
<i>Advisor Approved Personalized Program</i>		
Choose from nine hours of advisor approved courses		
<i>Certificate in Corporate Communication</i>		
CCT 310	International Business Communication	
CCT 550	Integrated Corporate Communication	
Choose from one of the following:		
BUS 207	Fund of Interpersonal Bus Comm	
BUS 300W		
BUS 301W	Fundamentals of Formal Commun.	
<i>Certificate in Financial Literacy</i>		
FIN 201	Personal Money Management	
FIN 310	Entrepreneurial Finance	
FIN 311	Personal Financial Planning	
ACC 200	Survey of Accounting (included in supporting course requirements)	
<i>Certificate in Marketing Research and Analytics</i>		
BUS 305	Essentials of Marketing	
	or BUS 301	
MKT 455	Marketing Research and Analysis	
MKT 456	Qualitative Research in Marketing	
MKT 457	Experimental Design for Marketing	
<i>Certificate in Sales</i>		
BUS 305	Essentials of Marketing	
	or BUS 301	
BUS 310		
BUS 408		
BUS 431		
<i>Additional Supporting Course Requirements</i>		

ACC 200	Survey of Accounting	3
STA 215	Introduction to Statistical Reasoning (included in General Education hours)	
<i>Program Electives</i>		
Experiential Learning:		
Choose from three hours of the following:		3
AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practicum	
AGR 349	Applied Learning in Agriculture	
OHO 301	Directed Work Experience	
OHO 349	Applied Learning in Horticulture	
ACCT Capstone:		
Choose from one of the following:		3
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	
Choose from nine hours of Upper Division Electives in AGR and/or OHO		9
<i>Free Electives</i>		
Choose from 0-1 hour of free elective		0-1
<b>Total Hours</b>		<b>43-47</b>

## Agriculture, Bachelor of Science with a Concentration in Agriculture Engineering Technology (B.S.)

### Program Requirements

CIP Code: 01.0301

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Agriculture majors will fulfill ACCT with the following. (Credit hours may be incorporated into program requirements below.)		
Choose from one of the following:		
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	
<b>Major Requirements</b>		
<i>College Requirement: Professional Skills Seminar</i>		
BUS 400	Professional Development Four (CR only, no hours)	0
<i>Core Courses</i>		
Choose from one of the following:		4
AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	
AGR 115	Operation of Agricultural Equipment	2
AGR 170	Appl Unmanned Aerial Sys Agri	3
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 310	Principles of Agribusiness Management	3
AGR 319	Renewable and Sustainable Energy Systems	3
AGR 340	Conservation of Agricultural Resources	3
AGR 411	Senior Seminar	1
<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Agribusiness Management		
Agriculture Engineering Technology		44
Agronomy, Soils and Natural Resources		
Livestock Management		
Fruit, Vegetable, Nursery and Greenhouse Production		
Turfgrass and Landscape		
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
or BIO 112	Ecology and Evolution	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	

ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
Choose from one of the following:		3
CIS 212	Introduction to Computer Information Systems	
INF 104	Computer Literacy with Software Applications	
TEC 161	Computer Applications in Technology	
See Additional Supporting Course Requirements on individual Concentration lists		0-3
<i>Program Electives</i>		
Choose from 15 hours of program electives		15
<b>Total Hours</b>		<b>133-136</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 195	Computer Aided Drafting	3
AEM 201	Metallic Material Processes	3
AEM 202	Introduction to Quality	3
AEM 301	Non-Metallic Material Processes	3
AEM 330	Material Testing and Metrology	3
AEM 352	Robotics and Automated Systems	3
AGR 362	Hydraulic Systems	2
AGR 383	Diesel Power Systems	3
AGR 570	Advanced Technical Agriculture:____	3
<i>Additional Supporting Course Requirements</i>		
STA 215	Introduction to Statistical Reasoning	3
Choose from one of the following: (included in General Education hours)		
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices	
MAT 114	College Algebra	
<i>Program Electives</i>		
Experiential Learning:		
Choose from three hours of the following:		3
AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practicum	
AGR 349	Applied Learning in Agriculture	
OHO 301	Directed Work Experience	
OHO 349	Applied Learning in Horticulture	
ACCT Capstone:		
Choose from one of the following:		3
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	
AEM 308	Methods of Lean Operations	3
AEM 310W	Technical Communication	3
AEM 407	Fundamentals of Project Management	3
<b>Total Hours</b>		<b>44</b>

# Agriculture, Bachelor of Science with a Concentration in Agronomy, Soils and Natural Resources (B.S.)

## Program Requirements

CIP Code: 01.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Agriculture majors will fulfill ACCT with the following. (Credit hours may be incorporated into program requirements below.)		
Choose from one of the following:		
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	
<b>Major Requirements</b>		
<i>College Requirement: Professional Skills Seminar</i>		
BUS 400	Professional Development Four (CR only, no hours)	0
<i>Core Courses</i>		
Choose from one of the following:		4

AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	
AGR 115	Operation of Agricultural Equipment	2
AGR 170	Appl Unmanned Aerial Sys Agri	3
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 310	Principles of Agribusiness Management	3
AGR 319	Renewable and Sustainable Energy Systems	3
AGR 340	Conservation of Agricultural Resources	3
AGR 411	Senior Seminar	1

**Concentrations**

Students must select one of the following Concentrations:

Agribusiness Management	
Agriculture Engineering Technology	
Agronomy, Soils and Natural Resources	44
Livestock Management	
Fruit, Vegetable, Nursery and Greenhouse Production	
Turfgrass and Landscape	

*Supporting Course Requirements*

BIO 111 or BIO 112	Cell and Molecular Biology (Element 4) <sup>G</sup> Ecology and Evolution	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
Choose from one of the following:		3
CIS 212	Introduction to Computer Information Systems	
INF 104	Computer Literacy with Software Applications	
TEC 161	Computer Applications in Technology	

See Additional Supporting Course Requirements on individual Concentration lists 0-3

*Program Electives*  
Choose from 15 hours of program electives 15

**Total Hours** 133-136

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
AGR 312	Ecology and Management of Grasslands and Pastures	4
AGR 345	Sustainable Agroecosystems	3
AGR 404	Advanced Pest Management	3

AGR 416	Soil Fertility and Management	3
AGR 430	Field Crop Production	3
AGR 570	Advanced Technical Agriculture:___	3
Choose from three hours of Upper Division electives in AGR and/or OHO		3

*Additional Supporting Course Requirements*

GEO 353	Geographic Information Systems	3
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*Program Electives*

Experiential Learning:

Choose from three hours of the following: 3

AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practicum	
AGR 349	Applied Learning in Agriculture	
OHO 301	Directed Work Experience	
OHO 349	Applied Learning in Horticulture	

ACCT Capstone:

Choose from one of the following: 3

AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	

Choose from nine hours of Upper Division Electives in AGR and/or OHO 9

**Total Hours** 44

# Agriculture, Bachelor of Science with a Concentration in Fruit, Vegetable, Nursery and Greenhouse Production (B.S.)

## Program Requirements

CIP Code: 01.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
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### University Graduation Requirements

General Education	36
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#### Student Success Seminar

BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Agriculture majors will fulfill ACCT with the following. (Credit hours may be incorporated into program requirements below.)

Choose from one of the following:

AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	

### Major Requirements

#### College Requirement: Professional Skills Seminar

BUS 400	Professional Development Four (CR only, no hours)	0
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#### Core Courses

Choose from one of the following: 4

AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	
AGR 115	Operation of Agricultural Equipment	2
AGR 170	Appl Unmanned Aerial Sys Agri	3
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 310	Principles of Agribusiness Management	3
AGR 319	Renewable and Sustainable Energy Systems	3
AGR 340	Conservation of Agricultural Resources	3
AGR 411	Senior Seminar	1

### Concentrations

Students must select one of the following Concentrations:

Agribusiness Management	
Agriculture Engineering Technology	
Agronomy, Soils and Natural Resources	
Livestock Management	
Fruit, Vegetable, Nursery and Greenhouse Production	44
Turfgrass and Landscape	

### Supporting Course Requirements

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
or BIO 112	Ecology and Evolution	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
Choose from one of the following:		3
CIS 212	Introduction to Computer Information Systems	
INF 104	Computer Literacy with Software Applications	
TEC 161	Computer Applications in Technology	
See Additional Supporting Course Requirements on individual Concentration lists		0-3
<i>Program Electives</i>		
Choose from 15 hours of program electives		15
<b>Total Hours</b>		<b>133-136</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 404	Advanced Pest Management	3
AGR 416	Soil Fertility and Management	3
OHO 354	Irrigation Systems and Horticultural Equipment	3
OHO 365	Plant Identification	3
OHO 372	Horticulture Retail and Wholesale Management	2
OHO 375	Post Harvest Technology of Horticultural Crops	3
OHO 388	Greenhouse Operation and Management	3
Choose from nine hours of advisor approved electives		9
<i>Program Electives</i>		
Experiential Learning:		
Choose from three hours of the following:		3
AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practicum	
AGR 349	Applied Learning in Agriculture	
OHO 301	Directed Work Experience	
OHO 349	Applied Learning in Horticulture	
ACCT Capstone:		
Choose from one of the following:		3
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	
Choose from nine hours of Upper Division Electives in AGR and/or OHO		9
<b>Total Hours</b>		<b>44</b>

# Agriculture, Bachelor of Science with a Concentration in Livestock Management (B.S.)

## Program Requirements

CIP Code: 01.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Agriculture majors will fulfill ACCT with the following. (Credit hours may be incorporated into program requirements below.)		
Choose from one of the following:		
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	

### Major Requirements

<i>College Requirement: Professional Skills Seminar</i>		
BUS 400	Professional Development Four (CR only, no hours)	0
<i>Core Courses</i>		
	Choose from one of the following:	4

AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	
AGR 115	Operation of Agricultural Equipment	2
AGR 170	Appl Unmanned Aerial Sys Agri	3
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 310	Principles of Agribusiness Management	3
AGR 319	Renewable and Sustainable Energy Systems	3
AGR 340	Conservation of Agricultural Resources	3
AGR 411	Senior Seminar	1

### Concentrations

Students must select one of the following Concentrations:

Agribusiness Management	
Agriculture Engineering Technology	
Agronomy, Soils and Natural Resources	
Livestock Management	44-48
Fruit, Vegetable, Nursery and Greenhouse Production	
Turfgrass and Landscape	

### Supporting Course Requirements

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
or BIO 112	Ecology and Evolution	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
Choose from one of the following:		3
CIS 212	Introduction to Computer Information Systems	
INF 104	Computer Literacy with Software Applications	
TEC 161	Computer Applications in Technology	

See Additional Supporting Course Requirements on individual Concentration lists 0-3

### Program Electives

Choose from 15 hours of program electives		15
<b>Total Hours</b>		<b>133-140</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
AGR 225	Evaluation and Selection of Livestock	3
or AGR 330	Animal Products	
AGR 321	Feeds and Feeding	4
Choose from two of the following:		7-8

AGR 326	Light Horse Production and Management	
AGR 327	Beef Production	
AGR 328	Swine Production	
AGR 329	Sheep and Goat Production	
AGR 332	Poultry Production and Management	
AGR 380	Technical Management of Dairy Cattle	
Choose from three of the following:		9-12
AGR 312	Ecology and Management of Grasslands and Pastures	
AGR 372	Topics and Laboratories in Animal Sciences	
AGR 373	Animal Diseases	
AGR 374	Genetics of Livestock Improvement	
AGR 375	Reproduction and Artificial Insemination of Domestic Animals	
AGR 376	Domestic Animal Anatomy	
AGR 377	Livestock Behavior and Welfare	
AGR 421	Animal Nutrition	
Choose from two hours of advisor approved elective in AGR and/or OHO		2
<i>Program Electives</i>		
Experiential Learning:		
Choose from three hours of the following:		3
AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practicum	
AGR 349	Applied Learning in Agriculture	
OHO 301	Directed Work Experience	
OHO 349	Applied Learning in Horticulture	
ACCT Capstone:		
Choose from one of the following:		3
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	
Choose from nine hours of Upper Division Electives in AGR and/or OHO		9
<b>Total Hours</b>		<b>44-48</b>

# Agriculture, Bachelor of Science with a Concentration in Turfgrass and Landscape (B.S.)

## Program Requirements

CIP Code: 01.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3

<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Agriculture majors will fulfill ACCT with the following. (Credit hours may be incorporated into program requirements below.)		
Choose from one of the following:		
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	

### Major Requirements

<i>College Requirement: Professional Skills Seminar</i>		
BUS 400	Professional Development Four (CR only, no hours)	0
<i>Core Courses</i>		
Choose from one of the following:		4
AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	
AGR 115	Operation of Agricultural Equipment	2
AGR 170	Appl Unmanned Aerial Sys Agri	3
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 310	Principles of Agribusiness Management	3
AGR 319	Renewable and Sustainable Energy Systems	3
AGR 340	Conservation of Agricultural Resources	3

AGR 411	Senior Seminar	1
<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Agribusiness Management		
Agriculture Engineering Technology		
Agronomy, Soils and Natural Resources		
Livestock Management		
Fruit, Vegetable, Nursery and Greenhouse Production		
Turfgrass and Landscape 44		
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
or BIO 112	Ecology and Evolution	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
Choose from one of the following:		3
CIS 212	Introduction to Computer Information Systems	
INF 104	Computer Literacy with Software Applications	
TEC 161	Computer Applications in Technology	
See Additional Supporting Course Requirements on individual Concentration lists		0-3
<i>Program Electives</i>		
Choose from 15 hours of program electives		15
<b>Total Hours</b>		<b>133-136</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 404	Advanced Pest Management	3
AGR 416	Soil Fertility and Management	3
OHO 351	Turf Grass Management	4
OHO 354	Irrigation Systems and Horticultural Equipment	3
OHO 365	Plant Identification	3
OHO 370	Landscape Operations Management	3
Choose from ten hours of advisor approved electives		10
<i>Program Electives</i>		
Experiential Learning:		
Choose from three hours of the following:		3
AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practicum	
AGR 349	Applied Learning in Agriculture	
OHO 301	Directed Work Experience	
OHO 349	Applied Learning in Horticulture	
ACCT Capstone:		
Choose from one of the following:		3
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	

Choose from nine hours of Upper Division Electives in AGR and/or OHO	9
<b>Total Hours</b>	<b>44</b>

**Agriculture, Minor**

A minor consists of 18 hours of agriculture classes arranged between the Department Chair and the student seeking the minor. The objective is to meet the student’s need for a minor.

Courses counted toward a horticulture major may not be counted toward a minor. Transfer classes are to be evaluated by the Department Chair.

**Program Requirements**

Code	Title	Hours
<b>Required Courses</b>		
Choose from 18 hours of agriculture classes with approval from the Department Chair, six or more hours shall be upper division courses <sup>1</sup>		18
<b>Total Hours</b>		<b>18</b>

<sup>1</sup>  
A minimum of six hours are to be taken at EKU.

**Animal and Veterinary Sciences, Bachelor of Science with a Concentration in Animal Science (B.S.)**

**Program Requirements**

CIP Code: 01.0301

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
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**University Graduation Requirements**

General Education		36
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*Student Success Seminar*

BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Agriculture majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)

AGR 499	Agricultural Advocacy and Issues Capstone	
or AGR 509	Agriculture Research Methods and Interpretation	

**Major Requirements***Professional Skills Seminar*

AGR 305	Professional Skills Seminar	1
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*Core Courses*

AGR 125	Principles of Animal Science	3
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AGR 126	Animal Science Laboratory	1
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AGR 304	Pest Management	4
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AGR 308	Agricultural Economics	3
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AGR 321	Feeds and Feeding	4
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AGR 411	Senior Seminar	1
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Choose from three hours of the following:		3
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AGR 301	Directed Work Experience	
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AGR 302	Directed Work Experience- Management Practicum	
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AGR 349	Applied Learning in Agriculture	
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Choose from one of the following:		3
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AGR 310	Principles of Agribusiness Management	
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AGR 350	Agricultural Marketing	
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AGR 440	Agricultural Financing	
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AGR 499	Agricultural Advocacy and Issues Capstone	3
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or AGR 509	Agriculture Research Methods and Interpretation	
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Choose from two of the following production classes:		6-8
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AGR 255	Companion Animal Management	
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AGR 326	Light Horse Production and Management	
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AGR 327	Beef Production	
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AGR 328	Swine Production	
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AGR 329	Sheep and Goat Production	
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AGR 332	Poultry Production and Management	
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AGR 380	Technical Management of Dairy Cattle	
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**Concentrations**

Students must select one of the following Concentrations:

Pre-Veterinary		
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Animal Science		23-33
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*Supporting Course Requirements*

All Concentrations:

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
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BIO 112	Ecology and Evolution	4
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CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
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CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
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CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
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ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
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Choose from 9-23 hours of Supporting Courses

18-23 hours of Pre-Veterinary

9-16 hours of Animal Science

*Free Electives*

Choose from 16 hours of free electives		16
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<b>Total Hours</b>		<b>120-132</b>
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**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
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**Concentration Courses**

AGR 225	Evaluation and Selection of Livestock	3
or AGR 330	Animal Products	

Choose from four animal science courses of the following:		11-16
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AGR 312	Ecology and Management of Grasslands and Pastures	
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AGR 372	Topics and Laboratories in Animal Sciences	
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AGR 373	Animal Diseases	
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AGR 374	Genetics of Livestock Improvement	
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AGR 375	Reproduction and Artificial Insemination of Domestic Animals	
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AGR 376	Domestic Animal Anatomy	
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AGR 377	Livestock Behavior and Welfare	
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AGR 421	Animal Nutrition	
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*Supporting Course Requirements*

Choose from one of the following:<sup>G</sup>

MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (Element 2) <sup>G</sup>	
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MAT 114	College Algebra (Element 2) <sup>G</sup>	
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MAT 120	Trigonometry (Element 2) <sup>G</sup>	
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MAT 122	Precalculus Mathematics (Element 2) <sup>G</sup>	
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MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
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MAT 234	Calculus I (Element 2) <sup>G</sup>	
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STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	

Choose from two of the following science electives:		6-10
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AGR 374	Genetics of Livestock Improvement	
or BIO 315	Genetics	

BIO 320	Principles of Microbiology	
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BIO 331	Cell Biology	
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BIO 348	Vertebrate Physiology	
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BIO 546	Histology	
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CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	
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CHE 430	Biochemistry of Macromolecules	
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PHY 131	College Physics I	
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or PHY 132 College Physics II

**Total Hours** **23-33**

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

# Animal and Veterinary Sciences, Bachelor of Science with a Concentration in Pre#Veterinary (B.S.)

## Pre-Veterinary Medicine

For students who have a strong interest in veterinary medicine, The Department of Agriculture offers a program of study that will provide an abundance of hands-on experience with both large and small animals while fulfilling admission requirements of veterinary schools.

Students in the Pre-Veterinary concentration of Animal and Veterinary Sciences will work directly with a knowledgeable faculty advisor throughout their academic career and the application process. Although Kentucky does not have a veterinary school, Auburn University College of Veterinary Medicine and Tuskegee University College of Veterinary Medicine have seats specifically designated for Kentucky residents.

Admission to Auburn or Tuskegee Colleges of Veterinary Medicine Kentucky is a member of the Southern Regional Educational Board Plan under which legal Kentucky residents attend Auburn University College of Veterinary Medicine or Tuskegee University College of Veterinary Medicine. The program is funded by an appropriation of the General Assembly to the Kentucky Council on Post-Secondary Education. A limited number of students who have completed pre-veterinary requirements are selected on a competitive basis by Auburn or Tuskegee each year and are exempt from out-of-state tuition. Both veterinary colleges have similar entrance requirements, including a GRE examination.

Students should have a grade point average of 3.4 to be competitive. Students need to pass all pre-veterinary required courses with a grade of "C" or better. Courses in organic chemistry and physics must have been completed within six years of entry into the college of veterinary medicine. Students applying to Auburn or Tuskegee use the Veterinary Medical College Application Service (VMCAS). Application deadlines for both are September 15. Students are expected to gain veterinary experience by working directly with a D.V.M.

## Program Requirements

CIP Code: 01.0301

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3

<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Agriculture majors will fulfill ACCT with the following. (Credit hours are incorporated into major requirements below.)		
AGR 499	Agricultural Advocacy and Issues Capstone	
	or AGR 509 Agriculture Research Methods and Interpretation	
<b>Major Requirements</b>		
<i>Professional Skills Seminar</i>		
AGR 305	Professional Skills Seminar	1
<i>Core Courses</i>		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
AGR 304	Pest Management	4
AGR 308	Agricultural Economics	3
AGR 321	Feeds and Feeding	4
AGR 411	Senior Seminar	1
Choose from three hours of the following:		3
AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practicum	
AGR 349	Applied Learning in Agriculture	
Choose from one of the following:		3
AGR 310	Principles of Agribusiness Management	
AGR 350	Agricultural Marketing	
AGR 440	Agricultural Financing	
AGR 499	Agricultural Advocacy and Issues Capstone	3
	or AGR 509 Agriculture Research Methods and Interpretation	
Choose from two of the following production classes:		6-8
AGR 255	Companion Animal Management	
AGR 326	Light Horse Production and Management	
AGR 327	Beef Production	

AGR 328	Swine Production	
AGR 329	Sheep and Goat Production	
AGR 332	Poultry Production and Management	
AGR 380	Technical Management of Dairy Cattle	

**Concentrations**

Students must select one of the following Concentrations:

Pre-Veterinary	30-33
Animal Science	

**Supporting Course Requirements**

All Concentrations:

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution	4
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	

Choose from 9-23 hours of Supporting Courses

18-23 hours of Pre-Veterinary

9-16 hours of Animal Science

**Free Electives**

Choose from 9 hours of free electives	9
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**Total Hours** 120-125

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		

AGR 421	Animal Nutrition	3
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Choose from three animal science courses of the following:

AGR 312	Ecology and Management of Grasslands and Pastures	
AGR 372	Topics and Laboratories in Animal Sciences	
AGR 373	Animal Diseases	
AGR 374	Genetics of Livestock Improvement	
AGR 375	Reproduction and Artificial Insemination of Domestic Animals	
AGR 376	Domestic Animal Anatomy	
AGR 377	Livestock Behavior and Welfare	

**Supporting Course Requirements<sup>1</sup>**

Choose from one of the following:<sup>G</sup>

MAT 120	Trigonometry (Element 2) <sup>G</sup>	
MAT 122	Precalculus Mathematics (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
MAT 234	Calculus I (Element 2) <sup>G</sup>	
BIO 331	Cell Biology	3
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
PHY 131	College Physics I	5

Choose from two of the following science electives: 6-9

AGR 374	Genetics of Livestock Improvement	
or BIO 315	Genetics	
BIO 320	Principles of Microbiology	
BIO 348	Vertebrate Physiology	
BIO 546	Histology	
CHE 430	Biochemistry of Macromolecules	
or PHY 132	College Physics II	

**Total Hours** 30-33

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**1**

Courses listed will meet requirements for Auburn College of Veterinary Medicine for students with a Baccalaureate degree prior to starting veterinary school.

## Animal Science, Certificate

The Certificate in Animal Science offers courses in a wide spectrum of areas including nutrition, diseases, genetics, reproduction, anatomy and physiology, behavior, and welfare. Students completing the certificate will gain basic skills in animal management and husbandry for employment opportunities as animal caretakers, veterinary technicians/assistants, and animal science sales and services. For students interested in continuing their studies, courses are applicable to the A.A.S. or B.S. degree programs related to Livestock Production and Animal and Veterinary Sciences.

## Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
AGR 125	Principles of Animal Science	13-16
AGR 126	Animal Science Laboratory	
Choose from two of the following:		
AGR 225	Evaluation and Selection of Livestock	
AGR 312	Ecology and Management of Grasslands and Pastures	
AGR 321	Feeds and Feeding	
AGR 330	Animal Products	
AGR 373	Animal Diseases	
AGR 374	Genetics of Livestock Improvement	
AGR 375	Reproduction and Artificial Insemination of Domestic Animals	
AGR 376	Domestic Animal Anatomy	
AGR 377	Livestock Behavior and Welfare	
AGR 421	Animal Nutrition	
Choose from one of the following:		
AGR 255	Companion Animal Management	
AGR 326	Light Horse Production and Management	
AGR 327	Beef Production	
AGR 328	Swine Production	
AGR 329	Sheep and Goat Production	
AGR 332	Poultry Production and Management	

AGR 380	Technical Management of Dairy Cattle
<b>Total Hours</b>	<b>13-16</b>

## Career and Technical Education/ Teaching, Bachelor of Science (B.S.) - Agriculture Education Teacher Certification

Offered in cooperation with the Department of Applied Engineering and Technology. Offered in collaboration with the College of Education and Applied Human Sciences.

Candidates earning a degree that leads to pre-service teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year ([www.ets.org/praxis](http://www.ets.org/praxis) (<http://www.ets.org/praxis/>)). Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements.

Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams. Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education and Applied Human Sciences section of this Catalog).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

### Program Requirements

CIP Code: 13.1319

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BTO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
CTE 463	Practicum in Career and Technical Education or ESE 499	

#### Major Requirements

<i>College Requirements</i>		
BTS 300	Professional Skills Seminar (CR only, no hours)	0
BTS 400	College to Careers Seminar (CR only, no hours)	0

#### Pre-Service Teacher Education Program

<i>Career and Technical Education Requirements</i>		
CTE 262	Foundations of Career and Technical Education (Pre-Service)	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3

#### *Agriculture Education (includes all areas below)*

Animal Science:		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
Choose from one of the following:		4
AGR 321	Feeds and Feeding	
AGR 327	Beef Production	
AGR 328	Swine Production	
AGR 380	Technical Management of Dairy Cattle	
Agricultural Systems Management:		
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
Choose from one of the following:		2-3
AGR 272		
AGR 311	Agriculture Metal Fabrication	
AGR 362	Hydraulic Systems	
AGR 383	Diesel Power Systems	
Soil Science:		
AGR 215	Principles of Soils	3
Choose from one of the following:		3
AGR 315		
AGR 317		
AGR 318	Soil/Water Conservation Technology	
Plant Science:		

Choose from one of the following: 4

AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	

Choose from one of the following: 4

AGR 312	Ecology and Management of Grasslands and Pastures	
AGR 417		
OHO 384		
	or OHO 385	

Agriculture Business:

AGR 308 Agricultural Economics 3

Choose from one of the following: 3

AGR 310	Principles of Agribusiness Management	
AGR 350	Agricultural Marketing	
AGR 409	Agriculture Business Records and Analysis	
AGR 440	Agricultural Financing	

AGR 304 Pest Management 4

AGR 305 Professional Skills Seminar 1

Choose from Agriculture and Horticulture electives to make 45 credit hours selected in consultation with your advisor 6-7

*Professional Education Requirements*

EDC 300 Differentiation in Inclusive Classrooms 3

EDF 310 Transition to Education 1

EDF 219 Human Development and Learning 3

EDF 413 Assessment in Education 2

EMS 300W Curriculum and Instructional Design 1

EMS 474 Disciplinary Literacy 3

EMS 490 Classroom &amp; Behavior Management 1

ESE 552 Teaching of Career and Technical Education in Middle and Secondary Schools 3

TEC 368 Workshop in Technology<sup>1</sup> 3

Clinical Experiences:

CED 150 Clinical Transition: Education Profession 0.5

CED 200 Clinical II: Understanding the Learner 0

CED 300 Clinical III: Curriculum and Instructional Design 0.5

CED 400 Clinical IV: Diagnosis and Prescription 0.5

CED 450 Clinical V: Practicing Teaching 1

CED 499 Clinical VI: The Professional Semester 9.0

*Supporting Course Requirements*MAT 114 College Algebra (or higher) (Element 2)<sup>G</sup>SED 104 Special Education Introduction (Element 6)<sup>G,1</sup>*Free Electives*

Choose from 3-10 hours of free electives 3-10

*Exit Requirements*

PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours 124.5-133.5****G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

1

Course meets Professional Education Requirements.

## Crops, Soils and Resource Conservation, Certificate

The Certificate in Crops, Soils and Natural Resources is designed to prepare students with degrees in related fields such as forestry, environmental sciences or biology with the opportunity to enter the agroforest industry. In addition, it will assist students to attain some of the basic requirements for careers in federal or state agroforestry-oriented agencies.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
AGR 130	Plant Science	3
AGR 131	Plant Science Laboratory	1
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 318	Soil/Water Conservation Technology	3
AGR 340	Conservation of Agricultural Resources	3
or AGR 345	Sustainable Agroecosystems	
<b>Total Hours</b>		<b>14</b>

## Greenhouse and Fruit/Vegetable Production, Certificate

The Certificate in Greenhouse and Fruit/Vegetable Production offers courses that will cover the science and practice of growing, harvesting, handling, sorting, processing, and marketing potted plants, tree fruits, small fruits, and vegetables. The certificate is designed to enhance technical competencies for individuals currently working in the greenhouse or fruit/vegetable industry or those individuals wanting to gain employment in these industries. For students interested in continuing their studies at the Associate or Baccalaureate level, all of the courses in this certificate may be used as part of the A.A.S. or B.S. degree programs related to Greenhouse and Fruit/Vegetable Production.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
OHO 373	Fruit Production	3
OHO 374	Vegetable Production	3
OHO 375	Post Harvest Technology of Horticultural Crops	3
OHO 388	Greenhouse Operation and Management	3
<b>Total Hours</b>		<b>12</b>

# Technical Agriculture, Associate of Applied Science (A.A.S.)

## Program Requirements

CIP Code: 01.9999

Code	Title	Hours
<b>University Graduation Requirements</b>		
<i>General Education</i>		
Choose from 19 hours of the following:		19
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution (Element 4) <sup>G</sup>	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
CHE 105 & 105L	Chemistry for the Health Sciences and Health Science Chemistry Lab (Element 4) <sup>G</sup>	
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
ENG 101	Reading, Writing, and Rhetoric (Element 1A) <sup>G</sup>	
	or ENG 105 First Year Writing Seminar	
ENG 102	Research, Writing, and Rhetoric (Element 1B) <sup>G</sup>	
MAT 105	Mathematics with Applications (Element 2) <sup>G</sup>	
Choose from three hours of Element 3A or 3B <sup>G</sup>		
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
<b>Major Requirements</b>		
<i>Core Courses</i>		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
Choose from one of the following:		4
AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131 & OHO 132	Plant Science and Plant Science Laboratory	
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 304	Pest Management	4
	or OHO 304 Horticulture Pest Management	
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
Choose from three hours of practicum		3
Choose from 0-3 hours of departmental electives		0-3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		11-14
Agricultural Systems Management		
Agribusiness Management		
Greenhouse and Fruit/Vegetable Production		
Landscape Horticulture		
Livestock Management		

Turfgrass Management

<b>Total Hours</b>	<b>57-63</b>
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**G**

Courses meeting general education requirements.

### Concentrations

#### Agricultural Systems Management

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 115	Operation of Agricultural Equipment	2
AGR 301	Directed Work Experience	1
AGR 362	Hydraulic Systems	2
AGR 381	Agriculture Structures	3
AGR 383	Diesel Power Systems	3
<b>Total Hours</b>		<b>11</b>

#### Agribusiness Management

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 310	Principles of Agribusiness Management	3
AGR 350	Agricultural Marketing	3
AGR 409	Agriculture Business Records and Analysis	3
AGR 349	Applied Learning in Agriculture	3
	or AGR 440 Agricultural Financing	
<b>Total Hours</b>		<b>12</b>

#### Greenhouse and Fruit/Vegetable Production

Code	Title	Hours
<b>Concentration Courses</b>		
OHO 372	Horticulture Retail and Wholesale Management	2
OHO 373	Fruit Production	3
OHO 374	Vegetable Production	3
OHO 375	Post Harvest Technology of Horticultural Crops	3
OHO 388	Greenhouse Operation and Management	3
<b>Total Hours</b>		<b>14</b>

#### Landscape Horticulture

Code	Title	Hours
<b>Concentration Courses</b>		
OHO 365	Plant Identification	3
OHO 370	Landscape Operations Management	2-3
	or OHO 372 Horticulture Retail and Wholesale Management	
OHO 391 & OHO 392	Landscape Design and Methods and Landscape Construction Techniques	6
<b>Total Hours</b>		<b>11-12</b>

#### Livestock Management

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 225	Evaluation and Selection of Livestock	3
	or AGR 330 Animal Products	
AGR 321	Feeds and Feeding	4
Choose from 3-4 hours of ANSCI electives		3-4

Choose from 3-4 hours of production electives 3-4

**Total Hours** 13-15

### Turfgrass Management

Code	Title	Hours
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#### Concentration Courses

OHO 351	Turf Grass Management	4
OHO 353	Sports Turf Management	3
OHO 354	Irrigation Systems and Horticultural Equipment	3
OHO 370	Landscape Operations Management	3

**Total Hours** 13

## Turfgrass and Landscape Horticulture, Certificate

The Certificate in Turfgrass and Landscape Horticulture can be used to enhance technical competencies for those working in the turfgrass and landscape industry or in order to gain employment in that industry. In addition, individuals who have or are pursuing a degree in Landscape Management, Landscape Construction, Parks and Recreation, and Physical Education/Sports Development can pursue this certificate in order to make themselves more marketable. Turfgrass and landscape management knowledge is in high demand with many positions available in golf courses, commercial and residential lawn and landscape, landscape design/construction, sports fields and parks. For students interested in continuing their studies at the Associate or Baccalaureate level, all of the courses in this certificate may be used as part of the A.A.S. or B.S. degree programs related to Turfgrass and Landscape Horticulture.

### Program Requirements

Code	Title	Hours
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#### Certificate Requirements

Select four of the following for a minimum of 12 hours: 12-13

OHO 351	Turf Grass Management	
OHO 353	Sports Turf Management	
OHO 354	Irrigation Systems and Horticultural Equipment	
OHO 368	Landscape Design Using CAD	
OHO 370	Landscape Operations Management	
OHO 391	Landscape Design and Methods	
OHO 392	Landscape Construction Techniques	

**Total Hours** 12-13

## Department of Applied Engineering and Technology

### Interim Chair

Dr. Dennis Field  
(859) 622-3232  
Whalin 302

## Faculty

A.Al-Helu, Z.Al-shabbani, J. Dodd, B. Dyer, T. Erekson, M. Farris, D. Field, K.Foltz, J. Glass, K. Knezevich, R. Richardson, L. Ross, D. Sinnett, N. Wang, and J. Wilson.

The Department of Applied Engineering and Technology offers Bachelor of Science degree programs in: Aviation, Construction Management, and Engineering Technology Management.

## Department Goals

The Department of Applied Engineering and Technology seeks to provide an educational experience relevant to current and future societal needs to meet global economic and industrial trends. Programs in Applied Engineering and Technology prepare professionals for careers in Aviation, Construction and Engineering Technology Management through the Bachelor of Science degree programs; prepare technicians for careers in Applied Engineering and Computer Electronics Technology through concentrations in the Associate of Applied Science in Technology degree program; and to provide programs of quality instruction and professional services to the University and to the community.

## Aviation

The EKU aviation program offers a Bachelor of Science degree in Aviation with four concentrations: Aerospace Management, Aerospace Technology, Unmanned Aircraft Systems, and Professional Flight. These concentrations combine courses in business management, communication, math, computer science and general education. The Aerospace Management concentration prepares students for exciting professional careers in all aspects of the aerospace industry from a management perspective whereas the Professional Flight concentration prepares students for careers as pilots.

The Professional Flight concentration Program is an FAA Part 141 approved Flight School and the only university program in Kentucky to offer the 1000-hour Restricted ATP certificate. This program provides future pilots with the flight time needed to join the rewarding world of professional aviation.

Starting with the fall 2022 semester, the Unmanned Aircraft Systems (UAS) concentration will prepare students for careers in the rapidly expanding area of UAS, including detailed knowledge of UAS-specific operations, safety, technology, regulations and industry uses. The demand for certification in this area is high as there were more than 488,000 commercial UAS registered in the United States by the end of 2021. Industries that utilize drone technology include agriculture, construction, law enforcement and more.

The Aerospace Technology (AT) degree is a degree-completion concentration. By adding upper division aerospace management and operations studies, the Bachelor's degree AT concentration is specifically designed to complete a two-year community college degree with a heavy technical aviation course load. Examples of aviation technical degrees include Airframes & Power Plants (A&P), a two-year helicopter and/or airplane proflight degree, any two-year career technical (CTE) degree partnered with a local flight school, any two-year air traffic control program, and/or any two-year aerospace management program, and/or two-year Unmanned Aircraft Systems (UAS) programs.

Additionally, non-degreed airline pilots with the Airline Transport Pilot (ATP) certificate may complete their bachelor's degree with this concentration.

## Construction Management

Graduates of the Construction Management program are prepared for careers with general contracting firms, starting in a variety of management positions. Typical entry-level positions include: assistant project manager, estimator, superintendent, project scheduler, cost engineer, and field engineer. The Construction Management program is accredited by the American Council for Construction Education. Graduates of this program will have oral, written and graphic communication skills for successful performance in a construction environment; possess functional computer skills including the utilization of general and construction application software; apply mathematical and scientific skills in the management and execution of construction projects; apply the concepts of management, accounting, economics and ethics in the management and execution of construction projects; possess a basic understanding of the science of materials and the methods by which they are placed into service; possess the essential plan reading, quantity takeoff and pricing skills to function as a junior estimator; be able to prepare a project budget, analyze cost reports and make cash flow projections for a project; be able to prepare a project schedule, monitor progress toward completion, and update the schedule as needed; possess a basic knowledge of OSHA standards and be able to establish and enforce a safety plan on a job site, be able to interpret site plans, establish horizontal and vertical control on a site, and perform layout for buildings and utilities; be able to administer situations on a project site, including evaluation of subcontractor pay requests, writing of purchase orders, and recording change orders, subcontracts, shop drawings, and daily reports; and perform in an acceptable manner in internship work assignments.

## Engineering Technology Management

Graduates of the Engineering Technology Management Program are prepared for professional careers in technology related businesses. These businesses offer many opportunities to pursue exciting, challenging and rewarding careers that require technical knowledge and managerial skills. Engineering Technology Management prepares individuals for entry-level positions that may include: manufacturing engineer, production engineer, industrial supervisor, industrial engineer, industrial technician, and quality engineer.

Graduates of Engineering Technology Management will be able to relate terminology, techniques and methodology to technical managerial concepts; demonstrate the ability to formulate and apply technical problem solving and managerial concepts; and be able to apply the concepts of mathematics and the physical sciences to solve technical problems. The BS degree program in Engineering Technology Management is accredited by the Association of Technology, Management, and Applied Engineering.

## Associate of Applied Science

The Department of Applied Engineering and Technology also offers an Associate of Applied Science degree programs (two-year programs) in Technology. The Associate of Applied Science degree in Technology offers the student a choice of technical concentration in: Applied Engineering or Computer Electronics. The AAS degree program in Technology is accredited by the Association of Technology, Management, and Applied Engineering.

## Associate of Applied Science - Technology

### Applied Engineering Concentration

Graduates of this program concentration are prepared to become applied engineering technicians who work in product design, research and development, manufacturing, and service related jobs. Students will become familiar with the technologies that are essential for business and industry wanting to remain competitive in a global economy.

Graduates will demonstrate proficiency in the fundamentals of chemistry/physics, electricity and electronics, manufacturing processes, lean, quality, practical statistical methods, and computer aided drafting or design applications to communicate and solve design problems.

### Computer Electronics Concentration

Graduates of the Computer Electronics (CE) program concentration are prepared for rewarding careers as computer electronic technicians in the public and private sector. Computer Electronics program graduates are qualified to obtain jobs in a wide variety of information technology, manufacturing and service industries. These jobs require skilled technicians for installing, troubleshooting and maintaining microprocessor-based systems, programmable logic controllers, computer hardware and software.

Graduates of the CE concentration of the AAS in Technology program will demonstrate fundamental knowledge in electricity/electronics at the technician's level; demonstrate proficiency in basic computing skills; demonstrate proficiency in basic networking skills relevant to LAN/WAN environments; and demonstrate effective communication skills while conveying information to technical and non-technical audiences.

## Bachelor's

- Aviation, Bachelor of Science with a Concentration in Aerospace Management (B.S.) (p. 448)
- Aviation, Bachelor of Science with a Concentration in Aerospace Technology (B.S.) (p. 449)
- Aviation, Bachelor of Science with a Concentration in Professional Flight (B.S.) (p. 451)
- Aviation, Bachelor of Science with a Concentration in Unmanned Aircraft Systems (B.S.) (p. 452)
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- Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Occupational Training and Development (B.S.) (p. 457)
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- Construction Management, Bachelor of Science (B.S.) (p. 461)
- Engineering Technology Management, Bachelor of Science with a Concentration in Manufacturing (B.S.) (p. 464)
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## Accelerated

- Engineering Technology Management, Bachelor of Science (B.S.) and Technology Management Master of Science (M.S.) [Manufacturing Concentration] Accelerated 3+2 Dual Degree Program (p. 462)
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## Associate's

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## Minor

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- Aviation (Flight), Minor (p. 448)
- Computer Electronics Technology, Minor (p. 460)
- Construction Management, Minor (p. 462)
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## Certificate

- Land Surveying, University Certificate (p. 467)

## Courses

### Applied Engineering Management

#### AEM 195. Computer Aided Drafting. (3 Credits)

I, II. An introductory course in freehand sketching and computer-aided drafting/design. Students will be taught basic CAD commands, tools, multi-view drawings and dimensioning techniques. 2 Lec/2 Lab.

#### AEM 201. Metallic Material Processes. (3 Credits)

I, II. Formerly INT 201. Introduction to manufacturing processes involving metallic materials. Families of processes covered are casting, molding, forming, separating, conditioning, assembling, and finishing. 2 Lec/2 Lab.

#### AEM 202. Introduction to Quality. (3 Credits)

I, II. Formerly INT 202. Prerequisite: STA 215 or 270 and MAT 114 or higher mathematics. Role of statistical thinking in modern quality control. Methods for problem solving, data collection, and process improvement. Deriving actionable conclusions from data analyses. Understanding, quantifying, and reducing variation to improve business performance.

#### AEM 242. Furniture and Cabinet Construction. (3 Credits)

A. Formerly INT 242. Prerequisite: TEC 141. Principles of furniture and cabinet construction, elements of structural design, advanced woodworking operations; care and sharpening of tools related technical information; furniture and cabinet construction and finishing. 2 Lec/2 Lab.

#### AEM 301. Non-Metallic Material Processes. (3 Credits)

II. Formerly INT 301. Introduction to manufacturing processes used to shape or form wood, plastic, and composite materials. Families of processes covered are casting, molding, forming, separating, conditioning, assembling, and finishing. 2 Lec/2 Lab.

#### AEM 308. Methods of Lean Operations. (3 Credits)

I, II. Prerequisite: STA 215 or 270 and MAT 114 or higher. Examination of lean principles, such as value mapping, continuous flow, continuous improvement, determination of customer demand, and standard work. Concepts and implementation of pull, line balancing, lean accounting, FMEA, time studies, and total productive maintenance.

#### AEM 310. Technical Communication. (3 Credits)

I. Prerequisites: ENG 102 and TEC 161. Formerly INT 310. A conceptual approach to computer aided communication systems typically applied in industrial environments. Emphasis will be placed on utilizing computer technology to integrate text and graphics in the preparation of documents and presentation materials. Credit will not be awarded for both AEM 310 and AEM 310W.

#### AEM 310W. Technical Communication. (3 Credits)

I. Prerequisites: ENG 102 or ENG 105 (B) or HON 102, TEC 161. An approach to computer aided written communication typically applied in industrial environment. Emphasis will be placed on utilizing computer technology to integrate text and graphics in the preparation of documents and presentation materials. Credit will not be awarded for both AEM 310 and AEM 310W.

#### AEM 320. Warehousing and Material Handling. (3 Credits)

A. Pre/Corequisites: AEM 202 or INT 202 and AEM 308 or INT 308. Formerly INT 320. A laboratory oriented course that examines basic warehouse layout configurations, material flow, and a critical evaluation of the application of computers to control material flow, plus the use of computer simulation to analyze various warehouse layout options for scheduling, picking and material tracking. 2 Lec/2 Lab.

#### AEM 330. Material Testing and Metrology. (3 Credits)

A. Prerequisites: AEM195, 201 and MAT120. A study of geometric dimensioning and tolerancing as used in detail working drawings and the principles, standards, equipment, and techniques of precision electronic and mechanical measurement. 2 Lec/2 Lab.

#### AEM 332. Process Control and Auditing. (3 Credits)

A. Prerequisite: AEM 202 or INT 202. Formerly INT 332. An advanced study of the Statistical Process Control methods and procedures in industry, and auditing as a method of evaluating the documentation, implementation, and effectiveness of a Quality System.

#### AEM 336. Reliability and Sampling. (3 Credits)

A. Prerequisite: AEM 202 or INT 202. Formerly INT 336. An overview of reliability, testing, and sampling theories. Topics include component and system reliability, product safety, sampling plans, control charts, and standards.

#### AEM 338. Engineered Materials Testing. (4 Credits)

A. Prerequisites: AEM 201, MAT 120 and TEC 190. Structure, composition, properties, tolerances, standards, and common applications of engineering materials. Use of GD&T and techniques for precision electronic and mechanical measurement and testing.

#### AEM 349. Applied Learning in Industrial Technology. (0.5-8 Credits)

I, II. Prerequisite: departmental approval. Formerly INT 349. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate, sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**AEM 352. Robotics and Automated Systems. (3 Credits)**

A. Prerequisite: EET 251. Formerly INT 352. Introduction to fixed and flexible automation equipment with an emphasis placed on industrial robot systems. Topics include robot safety, programming and operation, and effector design, programmable logic controllers, interfacing devices, and sensors. 2 Lec/2 Lab.

**AEM 367. Comp Exam for AAS in Technology, Applied Engineering . (0 Credits)**

Prerequisite: Departmental Approval. Registration is required of all A.A.S. Technology, Applied Engineering majors during their last semester. A comprehensive assessment exam is required.

**AEM 371. Hydraulics and Pneumatics. (3 Credits)**

II. Formerly INT 371. Principles of the operation, construction, control and application of hydraulic and pneumatic components and circuits. The study of control applications includes manual, mechanical, fluid, electrical, and computer controlled fluid circuits. 2 Lec/2 Lab.

**AEM 382. Advanced Material Processing. (3 Credits)**

A. Prerequisites: AEM 201 or INT 201 and AEM 301 or INT 301. Formerly INT 382. A laboratory course involving advanced material processing which includes project planning and management, machining, welding, precision layout, and measuring. Students will design and fabricate projects that include two-part mold designs, CNC machining, and multi-process welding. 2 Lec/ 2 Lab.

**AEM 383. CAD/CAM Integration. (3 Credits)**

A. Prerequisites: AEM 201 or INT 201. Formerly INT 383. The use of computer application software to link data bases created with computer aided design software to computer numerical controlled machine tools. 2 Lec/2 Lab.

**AEM 390. 3-D Parametric Solid Modeling. (3 Credits)**

A. Prerequisites: AEM 195 or INT 195. Formerly INT 390. A study of advanced topics in three-dimensional computer aided design. The content will include advanced modeling and rendering. 2 Lec/2 Lab.

**AEM 392. Computer Aided Machine Drawing. (3 Credits)**

I. Prerequisite: AEM 195 or INT 195. Formerly INT 392. Computer generated detail and assembly drawings. Topics include threads and fasteners, gearing and cams, and dimensioning and tolerancing. 2 Lec/2 Lab.

**AEM 395. Special topics in AEM:\_\_\_ (2-3 Credits)**

Prerequisite: AEM202. Departmental approval, junior or higher standing. Explores emerging technologies in the area of applied engineering. May be repeated up to a maximum of 9 hours provided subject matter is different each time.

**AEM 397. Advanced Machine Drawing. (3 Credits)**

A. Prerequisites: AEM 390 or INT 390 or MFG 390 and AEM 392 or INT 390 or MFG 392. Formerly INT 397. Advanced machine drawing applications to include detail and assembly drawings, threads and fasteners, gearing and cams. Emphasis on shape description. 2 Lec/Lab 2.

**AEM 406. Integrated Materials Mgmt.. (3 Credits)**

I, II. Prerequisites: AEM 202. Formerly INT 406. A senior course which examines consumer demand characteristics, product bill materials, establishing sales and operations plans, planning and controlling inventory in the supply chain.

**AEM 407. Fundamentals of Project Management. (3 Credits)**

(3) I. Prerequisite: AEM 202. Introduction to project selection, life cycle, planning using scope of work, WBS, CPM, scheduling, execution, resource allocation, expediting and closing.

**AEM 408. Human Resource Development. (3 Credits)**

I, II. Formerly INT 408. Topics in human relations and production management. To be scheduled the semester before graduation.

**AEM 467. Comprehensive Exam for BS in ETM. (0 Credits)**

A. Prerequisite: Consent of Advisor. Registration is required of all Applied Engineering Management and Engineering Technology Management B.S. majors during their last semester. A comprehensive assessment exam is required.

**AEM 499. Senior Capstone Project. (3 Credits)**

A. Prerequisite: AEM 310, 352, 407 and Senior Standing. Formerly INT 499. A synthesis experience involving the application of theory in solving a realistic industrial problem. Emphasis is placed upon project setup, solution, justification, report and presentation. 2 Lec/2 Lab.

**AEM 506. Six Sigma Quality. (3 Credits)**

A. Formerly INT 506. Prerequisite: AEM 202. A study of six sigma methodology and current practices with an emphasis on key quality drivers and statistical methods for world-class products and companies.

**AEM 530. Design of Experiments. (3 Credits)**

A. Formerly INT 530. Prerequisite: AEM 202. Principles and practices of efficient experiment design for industry. Topics include the philosophy of experiment design, comparison of various designs, hypothesis testing, and the analysis of data.

**Aviation****AVN 105. UAS Safety and Regulations. (3 Credits)**

This course provides an overview of small Unmanned Aircraft Systems (sUAS). Topics include the history of UAS, regulations, remote sensors, imagery equipment, industry and societal implications, career outlooks, ethical considerations, and the basic components required to operate an UAS. This course will prepare students for real-world safe operation of sUAS, and will provide basic understanding of the regulations in preparation for small Unmanned Aircraft Systems FAA 107 certification test. [CFR Part 107 are the Federal Aviation Administration regulations for the certification and operation of small Unmanned Aircraft Systems].

**AVN 150. Introduction to Aviation. (3 Credits)**

A. An introductory course specifically designed for students to obtain a broad understanding of the aviation world including varying aspects of space exploration. Includes a study of aviation history and the general aviation environment.

**AVN 161. Private Pilot- Airplane: Ground (Part 61). (4 Credits)**

A. Prerequisite: Math ACT of 22 or higher, or math placement score equivalent to Math 098 or higher, or MAT 098 or above with a grade of "C" or better. Provides aeronautical knowledge and 5 hours flight simulation necessary to prepare student pilots to successfully complete FAA Private Pilot-Airplane written examination.

**AVN 161A. Private Pilot- Airplane (Part 61): Flight I. (1 Credit)**

A. Prerequisite or Corequisite: AVN 161 with "C" grade or better and overall 2.0 GPA. Students receive dual and/or initial solo flight instruction as part of the FAA private pilot SEL certification using FAA part 61 Rules.

**AVN 162A. Private Pilot- Airplane (Part 61): Flight II. (1 Credit)**

Prerequisite: Dept. approval (i.e student must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Students receive remaining flight hours as part of the curriculum leading to FAA private pilot SEL certification using FAA part 61 rules.

**AVN 170. Introduction to Unmanned Aircraft Systems. (3 Credits)**

(3) A. This course provides an introduction to Unmanned Aircraft Systems (UAS). A history of UAS, typical applications and an overview of regulations, airframe and powerplant systems, sensors, ground control stations, airspace, weather, and other foundational skills needed to safely operate UAS in the U.S. airspace systems will be covered.

**AVN 192. Private Pilot- SEL: Ground. (4 Credits)**

A. Provides aeronautical knowledge and 5 hours flight simulation necessary to prepare student pilots to successfully complete FAA Private Pilot written examination.

**AVN 192A. Private Pilot-SEL: Flight I. (1 Credit)**

A. Prerequisite or corequisite: AVN 192 with "C" or better and overall 2.0 GPA. Students receive solo and/or dual flight hour instruction as part of the private pilot SEL certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 193A. Private Pilot- SEL: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive remaining flight hours leading to FAA private pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 194A. Private Pilot: Flight. (1 Credit)**

A. Prerequisite or Corequisite: AVN 192 with a grade of C or better, and an overall GPA of 2.0. This course consists of the dual and solo flight hours and experiences required for the private pilot certification with the Federal Aviation Administration.

**AVN 195. Pvt Pilot-Heli:Grnd(R-22/R-44). (4 Credits)**

A. Prerequisite: Math ACT of 22 or higher or place in math placement test at Math 098 or higher with "C" grade or higher. Provides aeronautical knowledge and 5 hours flight simulation necessary to prepare student pilots to successfully complete FAA Private Pilot-Helicopter written examination.

**AVN 195A. Pvt Pilot-Heli: Flight I(R-22). (1 Credit)**

A. Prerequisite or Co-requisite: AVN 195 with "B" grade or better and overall 2.0 GPA. First Robinson 22 Helicopter flight lab for pilots weighing less than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 196A. Pvt Plt-Heli:Flight II(R-22). (1 Credit)**

(1) A. Prerequisite: AVN 195A with "S" grade and overall 2.0 GPA. Second Robinson 22 Helicopter flight lab for pilots weighing less than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 197A. Pvt Plt-Heli:Flight III(R-22). (1 Credit)**

(1) A. Prerequisite: AVN 196A with "S" grade and overall 2.0 GPA. Third Robinson 22 Helicopter flight lab for pilots weighing less than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 198A. Pvt Plt-Heli:Flight I(R-44). (1 Credit)**

(1) A. Prerequisite; corequisite: AVN 195 with "B" grade or better and overall 2.0 GPA. First Robinson 44 Helicopter flight lab for pilots weighing more than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 199A. Pvt Plt-Heli:Flight II(R-44). (1 Credit)**

(1) A. Prerequisite: AVN 198A with "S" grade and overall 2.0 GPA. Second Robinson 44 Helicopter flight lab for pilots weighing more than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 200A. Pvt Plt-Heli:Flight III(R-44). (1 Credit)**

(1) A. Prerequisite: AVN 199A with "S" grade and overall 2.0 GPA. Third Robinson 44 Helicopter flight lab for pilots weighing more than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 205A. Inter Supervised Flight I. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. This course is designed to permit students holding the private pilot license to acquire additional supervised flight time. This course includes approximately 24 flight hours.

**AVN 206A. Inter Supervised Flight II. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. This course is designed to permit students holding the private pilot license to acquire additional supervised flight time. This course includes approximately 24 flight hours.

**AVN 220. Instrument Pilot: Ground. (4 Credits)**

A. Prerequisites: AVN 161A or AVN 192A and an overall 2.0 GPA. Provides aeronautical knowledge necessary to prepare student pilots to successfully complete the FAA Instrument Pilot written examination. 3 Lec/2 Lab.

**AVN 220A. Instrument Pilot: Flight. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. A course designed to permit the student to gain instrument flight training.

**AVN 221A. Instrument Pilot: Flight I. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs.). Students receive flight and simulator hours leading to the FAA instrument pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 222A. Instrument Pilot: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Students receive remaining flight hours leading to the FAA instrument pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 225. Instrument Pilot-Heli: Ground. (4 Credits)**

A. Prerequisite: AVN 197A or 200A with "S" grade and overall 2.0 GPA. Provides aeronautical knowledge and 20 hours flight simulation necessary to prepare student pilots to successfully complete the FAA Instrument Helicopter Pilot written examination. 3 Lec/2 Lab.

**AVN 225A. Instrmnt Pilot: Heli Flight I. (1 Credit)**

(1) A. Prerequisite or corequisite: AVN 225 with "B" grade or better, prerequisite 197A or AVN 200A with "S" grade, and overall 2.0 GPA. First Robinson R-44 flight lab leading to the FAA instrument helicopter pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 226A. Instrmnt Pilot: Heli Flight II. (1 Credit)**

(1) A. Prerequisite: AVN 225A with "S" grade, and overall 2.0 GPA. Second Robinson R-44 helicopter flight lab leading to the FAA instrument helicopter pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 229A. Advanced Supervised Flight I. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. This course is designed to provide students flight training and experience for FAA Commercial Pilot License.

**AVN 230A. Advanced Supervised Flight II. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. This course is designed to provide students flight training and experience for FAA Commercial Pilot License.

**AVN 231A. Instrument Pilot- MEL: Flight I. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student receives MEL flight hours leading to the FAA instrument pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 232A. Instrument Pilot- MEL: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student receives remaining MEL flight hours leading to the FAA instrument pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 250. Air Transportation. (3 Credits)**

A. Prerequisite AVN 150. A survey of the historical development of the air transportation system covering facilities, impact of regulations, problems encountered, and future requirements. Formerly AVN 350.

**AVN 280. Glass Cockpit Technology. (1 Credit)**

A. Prerequisite: AVN 220. Course provides instruction in operation of the Garmin G1000 glass cockpit to prepare students for operation of a G1000-equipped airplane in the Commercial Pilot Syllabus. Course includes 3 hours in a Garmin G1000 training device.

**AVN 290. UAS Flight Operations. (3 Credits)**

This course covers the techniques and best practices required to safely and successfully utilize and operate drones for commercial purposes. Every aspect of flight operation is covered, from equipment, preflight planning and legal compliance to operational procedures, flight training, and data collection. Students work through the entire mission cycle, starting with legal compliance, planning, and then pre and post flight operations. Students will gain hands-on experience using the drone flight simulators in the Drone Lab. In-class simulation training is to prepare them for an outdoor real flight experience.

**AVN 300. Commercial Pilot: Ground. (2 Credits)**

A. Prerequisites: AVN 221A. Provides aeronautical knowledge to prepare student pilots to successfully complete FAA Commercial Pilot written examination.

**AVN 300A. Commercial Pilot: Flight. (1 Credit)**

A. Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). The course consists of all or part of the dual and solo flight hours required for FAA commercial pilot certification.

**AVN 301A. Commercial Pilot- SEL: Flight I. (2 Credits)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive 32 dual and solo flight hours as part of the curriculum leading to the FAA commercial pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 302A. Commercial Pilot- SEL: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive additional dual and solo flight hours as part of the FAA commercial pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 303A. Commercial Pilot- SEL: Flight III. (1 Credit)**

A. Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs.) Student will fly additional dual and solo flight hours as part of the FAA commercial pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 304A. Commercial Pilot- SEL: Flight IV. (2 Credits)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will fly remaining dual and solo hours flight hours as part of the curriculum leading to the FAA commercial pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 305. Multi- Engine Pilot (MEL): Ground. (1 Credit)**

A. Prerequisite: AVN 301A. Provides multi-engine aeronautical knowledge to facilitate successful completion of multi-engine practical examination.

**AVN 305A. Multi- Engine: Flight. (1 Credit)**

A. Prerequisite: AVN 304A. Student will complete the multi-engine land (MEL) flight training required to earn the FAA (MEL) pilot certification.

**AVN 310. UAS Ground/Flight Operations. (3 Credits)**

This course instructs the student in the mission planning, preflight, ground control, mission execution, and data analysis of UAS specific missions such as, Agriculture, Power/Wind Turbine/Railroad/Pipeline Inspections, Infrastructure Security, and other mission types as required.

**AVN 310A. Flight Training Techniques I. (1 Credit)**

A. Prerequisites: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Flight training to prepare students for FAA examinations.

**AVN 312. UAS Commercial Single/Multi En. (3 Credits)**

This course instructs the student in the mission planning, preflight, ground control, mission execution, and data analysis of UAS specific missions such as, Search & Rescue, Geosciences, Environmental, Anti-Poaching, Homeland Security, Videography, Construction, and Surveying.

**AVN 315. Aviation Safety Programs. (3 Credits)**

I, II. A. Prerequisite: AVN 150 or 30 credit hours. A presentation of factors, procedures, and aircraft accident investigation case studies relating to aviation safety, including risk management assessment, hazard identification analysis, safety programs-development-called Safety Management Systems (SMS) by the Federal Aviation Administration, and evaluation of outcomes.

**AVN 320. Flight Training Analysis II. (2 Credits)**

A. Prerequisite: appropriate flight credentials. A study of aeronautical information and instructional background necessary for becoming instrument flight instructors. Included in the course is teaching methodology, instrument interpretations, and instrument flight procedures.

**AVN 320A. Flight Training Techniques II. (1 Credit)**

A. Prerequisites: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Flight training to prepare students for FAA examinations.

**AVN 325. Aircraft Systems. (3 Credits)**

I,II. Prerequisite AVN 150. A study of electrical, mechanical and hydraulic systems, design and performance standards, capabilities and limitations, and conformance to FAA specifications.

**AVN 329W. Aviation Human Factors. (3 Credits)**

(3) A Prerequisites: AVN 315. ENG 102 or 102R, 105(B), or HON 102. A study of human factors that affect and influence behavior, with application to aviation safety and its connection to all disciplines within the aviation industry.

**AVN 330. Crew Resource Management. (3 Credits)**

(3) A. Prerequisite: AVN 315 and 329W. A survey of crew resource management history and development in commercial aviation with emphasis on the myriad factors that influence crew interaction and performance.

**AVN 331A. Commercial Pilot- MEL: Flight I. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student receives initial dual flight hours as part of the FAA commercial pilot MEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 332A. Commercial Pilot- MEL: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student CRM time building flight hours leading to the FAA commercial pilot MEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 333A. Commercial Pilot- MEL: Flight III. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student CRM time building flight hours leading to the FAA commercial pilot MEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 334A. Commercial Pilot- MEL: Flight IV. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student CRM time building flight hours and ten PDPIC dual flight hours leading to the FAA commercial pilot MEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 335. Weather Reporting/Analysis. (3 Credits)**

I, II. Prerequisite: PHY 101 or higher. A comprehensive analysis of weather conditions and patterns as they apply to flight.

**AVN 340. Airport Management I: Operations and Security. (3 Credits)**

I, II. Prerequisite AVN 150. An in-depth overview of airport operational issues, unmanned systems integration, air traffic control issues, safety, security, and planning.

**AVN 341. Airport Management II: Planning and Administration. (3 Credits)**

(3). I, II. Prerequisite AVN 340. An in-depth overview of airport administration, finance, marketing, airfield design, planning, construction, air service development, and community relations.

**AVN 349. Cooperative Study: Aviation. (0.5-8 Credits)**

A. Prerequisite: coordinator approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours work required for each academic credit.

**AVN 350. Air Transportation. (3 Credits)**

A. A survey of the historical development of the air transportation system covering facilities, impact of regulations, problems encountered, and future requirements.

**AVN 360. General Aviation Management. (3 Credits)**

I, II. Prerequisite AVN 150. Designed to provide students with an understanding of an airport Fixed Base Operator's role and also of Aviation Service Businesses in the aviation industry, to include managerial and operational problems.

**AVN 370. Aviation Supervision and Leadership. (3 Credits)**

I, II. Prerequisite: AVN 150. A study of effective supervisory and leadership techniques, with application to practical situations in the aviation industry.

**AVN 390. Aviation Decision Making. (3 Credits)**

A. Prerequisite AVN 150. A study of decision theory and its application to aviation decision-making and problem solving.

**AVN 399. Aviation Prof Skills Seminar. (0 Credits)**

I, II. Required of all Aviation students who have earned at least 60 hours. Credit (CR) will be given when students have attended and/or completed department-sponsored activities regarding professional skills and careers.

**AVN 400. Multi-Engine Pilot: Ground. (1 Credit)**

A. Prerequisite: appropriate flight credentials. The course is designed to provide appropriate aeronautical knowledge about multi-engine aircraft to facilitate successful completion of the multi-engine flight component.

**AVN 400A. Multi-Engine Pilot: Flight. (1 Credit)**

A. Prerequisites: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). A one hour laboratory course integrated with AVN 400 consisting of the dual and solo flight hours required for FAA certification.

**AVN 401. Airline Management. (3 Credits)**

A. Prerequisite: AVN 250 or AVN 350 and junior standing (at least 60 hours). Acquaint student with the development, administrative and operational factors peculiar to FAR Part 121 Airline Operations. Emphasis is placed on proper market analysis, financial matters, the company plan, aircraft selection, aircraft acquisition, route structure, timetable and pertinent regulatory requirements.

**AVN 402. Corporate and Business Aviation. (3 Credits)**

A. Prerequisite AVN 250 or 350 and junior standing (at least 60 hours). The study of the operation of a corporate flight department. Course includes the value of management mobility, aircraft and equipment evaluation, maintenance, flight operations, administration and fiscal considerations.

**AVN 410. Air Traffic Control. (3 Credits)**

I, II. Prerequisite AVN 250 or 350 and junior standing (at least 60 hours). A study of the national air traffic control system with emphasis on basic air traffic control procedures; the role of centers, approach control, towers, and flight service centers; communications; navigation procedures, radar operations, facilities.

**AVN 412. Counter UAS Operations. (3 Credits)**

Course is designed to educate and explore the emerging threat of unmanned aircraft systems to the nation's airspace and infrastructure. This course will be divided into four sections (overview, detect, identify and defeat), to cover all current and future lines of effort in a unified approach to counter UAS.

**AVN 415. Instructor Pilot- SEL: Ground. (3 Credits)**

A. Prerequisite: AVN 161, AVN 220, and AVN 300 with "C" grade or better and overall 2.0 GPA. Prepares student pilots for the FAA Certified Flight Instructor (CFI) & Fundamentals of Instruction (FOI) written exams.

**AVN 415A. Instructor Pilot- SEL: Flight. (1 Credit)**

A. Prerequisite: AVN 304A with "S" grade. Prerequisite or corequisite: AVN 415 with "C" or higher, and overall 2.0 GPA. Fifteen dual flight hours and 5 hours flight simulation leading to the FAA instructor pilot (SEL) certification using FAA-approved Part 141 flight training syllabus.

**AVN 416A. Instructor and Commercial Pilot- SEL: Flight. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive dual flight hours and simulation hours leading to the FAA Instructor Pilot (IP) SEL and Commercial Pilot-SEL certifications using FAA-approved Part 141 flight training syllabus.

**AVN 420. Flight Training Analysis III. (2 Credits)**

A. Prerequisite: appropriate flight credentials. Principles and methodology of teaching multi-engine flight and includes ground instruction required by the FAA in preparation for a flight instructor multi-engine rating.

**AVN 420A. Flight Training Techniques III. (1 Credit)**

A. Prerequisites: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Flight preparation for FAA CFI Multi-Engine flight test.

**AVN 421. Instrument and Multi-Engine IP: Ground. (2 Credits)**

A. Prerequisite: AVN 415 with "C" grade or better and overall 2.0 GPA or an Instructor Pilot-SEL rating. Provides study of aeronautical information for becoming instrument and multi-engine flight instructor, and preparation for FAA Instrument Instructor written.

**AVN 421A. Instrument and Multi-Engine IP: Flight. (1 Credit)**

A. Prerequisite Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive required flight hours and simulation hours leading to the FAA Instrument Instructor Pilot (IP) SEL rating using FAA-approved Part 141 flight training syllabus.

**AVN 422A. Commercial and Instructor Pilot-MEL: Flight. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive required dual flight hours and simulation hours leading to the FAA commercial multi-engine add-on and multi-engine instructor ratings using FAA-approved Part 141 flight training syllabus.

**AVN 423A. Instructor Pilot--Multi-Engine: Flight. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive additional dual flight hours and simulation hours leading to the FAA Multi-Engine instructor rating using FAA-approved Part 141 flight training syllabus.

**AVN 425. Applied Aerodynamics. (3 Credits)**

A. Prerequisite: PHY 101. Applied theories of flight and flight factors, including a study of the principles of performance, stability and control, and operational data.

**AVN 435. Turbine Aircraft Systems. (3 Credits)**

A. Prerequisite: AVN 325 with a "C" or better or instructor approval. A study of the functioning theory and integral components of gas turbine (jet) engines. Additionally, provides a study of electrical, mechanical and hydraulic systems as they relate to turbine engine aircraft.

**AVN 460. Aviation Law. (3 Credits)**

I, II. Prerequisite: AVN 250 or 350 and junior standing (at least 60 hours). A study of civil law as it pertains to aviation and includes the historic development of United States and international aviation law while surveying governmental responsibility for aviation accidents.

**AVN 467. Comprehensive Exam for BS in Aviation. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration in AVN 467 is required of all undergraduate B.S. (Aviation) students for the term in which they wish to take their comprehensive examination, including the exit exam and advisor approved certification or license.

**AVN 470. National Air Space System. (3 Credits)**

A. An overview of the National Air Space System with emphasis on problems of implementation, safety considerations, and social/economic impact.

**AVN 480. Glass Flight Deck Technologies. (1 Credit)**

(1) A. Prerequisite: AVN 222A or AVN 232A and AVN 330. Provides an integrated approach to the theory, technology, and operations of "Glass" flight deck technologies to prepare student pilots to successfully operate "glass" flight deck aircraft. Course includes 5 hours in "Glass" capable AATD flight simulator.

**AVN 490. Airline Flight Operations. (3 Credits)**

A. Prerequisite(s): AVN 330, 435, and 480. Provides an academic and AATD flight simulation-based transition from the general aviation reciprocal engine flight operations at 130 KIAS to airline turbojet flight operations at 350 KIAS or faster. Actual airline flight operations, to include flight deck flows and checklist usage will be introduced. Student pilots will fly 10 hours of AATD jet transition flight simulation as a 2 person crew. 2 Lec/2 lab.

**AVN 495. Internship. (1-3 Credits)**

Prerequisite: departmental approval. Students will work under departmental supervision in a private or public agency engaged in aviation activities.

**AVN 498. Independent Study. (1-3 Credits)**

A. Prerequisite: AVN major with senior standing. Student must have the independent study proposal form approved by faculty supervisor and program coordinator prior to enrollment. May be retaken to a maximum of six hours.

**AVN 499. Aviation Careers Seminar. (0 Credits)**

II. Prerequisite: AVN 399 or BTS 300. Required of all Aviation students who have earned at least 90 hours. Credit (CR) will be given when students have attended the annual Aviation Career Day and completed all related assignments.

## Career and Technical Education

**CTE 164. Orientation to Career and Technical Education. (3 Credits)**

A. Instruction to new technical teachers in areas of principles of instruction, lesson planning, oral instruction, instructional media, demonstrations, evaluation and follow-up. Satisfactory-unsatisfactory grading.

**CTE 204. Related Sci Math & Tech: Occ I. (3 Credits)**

Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 205. Manipulative Skills: Occ I. (3 Credits)**

A. Offered only through technical competence examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 206. Related Knowledge: Occ I. (3 Credits)**

A. Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 261. Foundations of Career and Technical Education. (3 Credits)**

A. For in-service career and technical teachers. A study of the historical, philosophical, economical, sociological, and psychological foundations of career and technical education related to elementary, secondary, and post-secondary education. Credit will not be awarded for both CTE 261 and 262.

**CTE 262. Foundations of Career and Technical Education (Pre-Service). (3 Credits)**

A. Co-Requisite: EDF 310 (1)-Enrollment in a late term section is preferred. For pre-service career and technical teachers. A study of the historical, philosophical, economical, sociological, and psychological foundations of career and technical education related to elementary, secondary, and post-secondary education. Credit will not be awarded for both CTE 262 and 261.

**CTE 302. New Developments in Industry. (1-6 Credits)**

A. Concurrent enrollment in approved industry sponsored course. One hour credit for each week of enrollment (minimum of 20 class hours per week). Student required to present proof of completion and to develop a teaching unit on the new development. May be retaken provided the industry sponsored school is different. Graded on a satisfactory-unsatisfactory basis. Only in-service vocational education teachers may enroll.

**CTE 303. Career and Technical Education Staff Exchange. (2-9 Credits)**

A. Prerequisite: departmental approval. For in-service career and technical teachers enrolled in an approved staff exchange program designed to update technical skills and knowledge in an occupational setting. Assignments include verifying contact hours, site visit, narrative summary, and lesson development. First week of exchange is equal to two semester hours of credit with one additional hour of credit for each additional week. Satisfactory-unsatisfactory grading.

**CTE 304. Rel Sci Math & Tech in Occ. (3 Credits)**

A. Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 305. Manipul Skills Occupation II. (3 Credits)**

A. Offered only through technical competence examination; applicant must be eligible for vocational/ technical teaching certificate.

**CTE 306. Related Knowledge: Occ II. (3 Credits)**

A. Offered only through written examinations; applicant must be eligible for vocational/technical teaching certificate.

**CTE 361. Course Materials in Career and Technical Education. (3 Credits)**

A. The preparation of instructional materials and instructional techniques, including the development and use of instructional media. The content will include the development of curricula at appropriate levels of education and appropriate laboratory activities.

**CTE 363. Evaluation in Career and Technical Education. (3 Credits)**

A. Methods of evaluation, preparation of measuring devices; methods of assessing technical competency; interpretation of standardized test results; statistical analysis of test data and the improvement of instruction.

**CTE 364. Methods in Career and Technical Education. (3 Credits)**

A. Presentation and application of instructional materials, methods, techniques, and devices relevant to teaching technical subjects.

**CTE 463. Practicum in Career and Technical Education. (4-12 Credits)**

A. Prerequisites: CTE 361, 363, 364. Observation, participation and supervised teaching in vocational and technical education. Includes experiences in lesson planning, classroom management, record keeping, development and use of instructional materials and directed teaching in approved centers. Students are graded on a satisfactory-unsatisfactory basis.

**Construction Management****CON 121. Introduction to Construction. (3 Credits)**

I, II. A survey of the construction industry. Nature, scope, and general characteristics of the industry with an emphasis on careers, safety, and typical contracting methods.

**CON 201. Materials and Methods of Construction. (3 Credits)**

I, II. Composition, manufacture and grades of construction materials and building products with emphasis on wood, metal, glass, roofing, finishing, and plastic materials. Methods, including safety, involved in the placement and installation of these materials.

**CON 202. Materials and Methods of Construction II. (3 Credits)**

II. Composition, manufacture, and grades of construction materials and building products with an emphasis on concrete and masonry. Methods, including safety, involved in the placement and installation of these materials. 2 Lec/2 Lab.

**CON 221. Plane Surveying. (3 Credits)**

I, II. Prerequisite: MAT 120 with a minimum grade of "C". Principles of surveying, including the measurement of distances, elevations, and angles. Calculations for the various operations, including traverse computations. Introduction to the use of surveying instruments and note keeping. 2 Lec/2 Lab.

**CON 250. Structural Systems & Material. (3 Credits)**

I. Prerequisite: DES 122. Emphasis on building systems and materials for residential structures. An understanding of the properties of structural materials and their appropriate applications. Laws, codes, and standards will be addressed along with instruction in blueprint reading.

**CON 294. Construction Graphics. (3 Credits)**

A. Basic principles of residential and small commercial planning; styles of architecture; a comparative study of structural systems and the preparation of working drawings. 2 Lec/2 Lab.

**CON 303. Statics and Strength of Materials. (3 Credits)**

I, II. Prerequisites: MAT 120 or 234 (4) with a minimum grade of "C", and PHY 131 or 201. Study of loads, forces and their effects on rigid bodies and structures at rest. Computation of equilibrium reactions, internal forces, shear, moments, couples, friction, stress, strain, and deformation. Finding centroids and moments of inertia.

**CON 307. Soils and Foundations. (3 Credits)**

I. Prerequisite: CON 303. A study of soil mechanics as it relates to foundation construction. Topics include soil classification, engineering properties, compaction testing, types of foundation systems, and methods of foundation construction.

**CON 320. Construction Surveying. (3 Credits)**

I, II. Prerequisite: CON 221. The application of surveying skills as they relate to horizontal and vertical control on construction projects. Activities include building layout, centerline staking, earthwork computations, and slope staking. The use of electronic instruments is emphasized. 2 Lec/2 Lab.

**CON 321. Boundary Surveying. (3 Credits)**

I. Prerequisite: CON 221. This course introduces students to the principles of boundary surveying and provides them with the basic knowledge and skill to practice boundary surveying under the supervision of a registered professional surveyor.

**CON 322. Construction Structural Design. (3 Credits)**

I, II. Prerequisites: CON 303 and MAT 211 or MAT 234 and MAT 217. A study of the design of beams and columns using steel and wood. Principles of structural design related to the design of temporary structures used in the construction process.

**CON 323. Estimating I. (3 Credits)**

I, II. Prerequisites: CON 201, 202 and MAT 120 with a grade of "C". A study of the materials and labor required in the construction of commercial projects. Experience is gained in reading drawings, calculating material quantities, and listing work items in a standardized format. 2 Lec/2 Lab.

**CON 324. Mechanical/Electrical Systems. (3 Credits)**

II. Prerequisites: CON 201 and 21 additional hours of CON courses. A study of plumbing, heating, air-conditioning, electrical power distribution, and lighting for vertical and horizontal construction. Basic fundamentals of water supply, waste drainage, electrical circuits, and heat loss/gain calculations are studied. 2 Lec/2 Lab.

**CON 325. Construction Estimating. (4 Credits)**

(5) I, II. Prerequisite: CON 201, 202; MAT 120 with a minimum grade of "C"; and TEC 161. A study of estimating construction materials, equipment, labor, and costs, through reading drawings and calculating quantities and costs. Estimating software and cost databases are utilized to list work items in standardized format. 4 Lec/2 Lab.

**CON 326. Horizontal Construction. (3 Credits)**

(3) A. A study of construction equipment, roadwork, bridge construction and various other topics involved in horizontal construction means and methods.

**CON 349. Applied Learning in Construction Management. (0.5-8 Credits)**

A. Prerequisites: 30 hours of credit including 9 credit hours of CON courses with a 2.0 GPA and departmental approval. Transfer students must have completed at least one semester of full-time work at EKU. Work under faculty and field supervisors in placements related to construction management.

**CON 401. Spec Prob in Constr Tech. (1-3 Credits)**

A. An independent study course for exceptional upper division undergraduate students. A study proposal will be developed by the student and approved by the faculty supervisor and department chair prior to enrollment. May be retaken provided the topic of study is different.

**CON 420. Engineering Economy. (3 Credits)**

I, II. Junior Class Restriction. A systematic application of engineering economy to design, selection of construction materials, and construction methods. A study of first costs, operating and maintenance costs, service life, and replacement costs.

**CON 421. Construction Contracts. (3 Credits)**

I. Prerequisite: CON 325. Contract documents, drawings, and specifications and their impact on the construction process. A study of the types and organization of construction contracts, and the roles and responsibilities of the parties involved.

**CON 423. Estimating II. (3 Credits)**

I, II. Prerequisite: CON 323 and TEC 161. Construction projects of moderate complexity are divided by scope, then materials are quantified and costed. Cost databases are utilized for estimating labor, materials, equipment, and overhead. Emphasis is placed on the use of estimating software. 2 Lec/2 Lab.

**CON 425. Project Organization and Supervision. (3 Credits)**

II. Prerequisites: MGT 300 or MGT 301 or INT 408 or AEM 408 and CON 421. A study of principles of construction project administration, systems for efficient operation of office and field personnel, and dispute avoidance and resolution procedures. The construction process is followed from project inception to closeout.

**CON 426. Scheduling. (3 Credits)**

I, II. Prerequisites: ACC 201 or FIN 310 and CON 325. A study of the planning and control of construction activities and project costing. Topics include critical path method scheduling, metric based progress monitoring, cash flow analysis, and cost control. Standard scheduling software is used. 2 Lec/2 Lab.

**CON 428. Construction Sustainability. (3 Credits)**

(3) A. A study focused on understanding the concept of sustainability in construction, which uses the requirements and procedures for obtaining Leadership in Energy and Environmental Design (LEED) professional accreditation.

**CON 480. Construction Management Graduate Preparation. (1-6 Credits)**

Prerequisite: Admission to MS program in Applied Engineering and Technology Management, Construction Management concentration, and departmental approval. A guided study of construction management modules meant for graduate students who have an undergraduate degree in an unrelated field but who have a minimum of 3 years of verifiable construction experience.

**CON 499. Construction Mgt. Capstone. (4 Credits)**

(4) II. Co-requisites and/or prerequisites: CON 425, CON426. A project-based capstone course for senior-level construction management students under the direction of the construction management faculty. This course integrates applied components of undergraduate construction courses and incorporates online environmental and safety certifications. 3 Lec/2 Lab.

## Electricity/Electronics

**EET 251. Electricity and Electronics. (3 Credits)**

I, II. Prerequisite: Grade of at least "C" in MAT 095 or a minimum math ACT score of 18 or a minimum SAT math score of 490. Principles of basic electricity, circuit operation, and electronics. Topics include electrical components, measurements, power, characteristics of AC-DC, basic circuit laws, circuit simulation, magnetism, energy conversion, and sources. 2 Lec/2 Lab.

**EET 252. Digital Electronics. (3 Credits)**

I, II. Prerequisite: grade of at least "C" in MAT 090 or equivalent. A survey of digital electronics fundamentals and applications. Topics include number systems, digital mathematics, logic families, logic gates, multiplexers, demultiplexers, comparators, counters, decoders, displays, and converters. 2 Lec/2 Lab.

**EET 253. Microprocessor Control Systems. (3 Credits)**

A. Prerequisite: EET 251 and 252. The operation and application of microprocessor-based control systems in electro-mechanical project environments. Topics include data, address, and control signals; memory software; interfacing digital and analog devices; ports; and data communications. 2 Lec/2 Lab.

**EET 254. Machine Language/Microcontrol. (3 Credits)**

A. Prerequisite/Corequisite: EET 252. Machine language programming for ROM based microprocessor based industrial controllers. Emphasis on software manipulation of I/O control devices in real-time, interrupt driven, process control environments. 2 Lec/2 Lab.

**EET 257. Electronic Devices and Circuits. (3 Credits)**

A. Prerequisite: EET 251. An analysis of the characteristics of solid state devices and the common circuits that utilize these devices. Emphasis on problem solving supplemented by laboratory activities and demonstration of electronic circuits and devices. 2 Lec/2 Lab.

**EET 349. Co-op or Appl Lrn: CET/CEN. (1-8 Credits)**

II. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies in Computer Electronics Technology (CET) or Computer Electronic Networking (CEN). Transfer students must have completed at least 12 hours of coursework at EKU. A minimum of 80 hours work required for each academic credit.

**EET 350. Industrial Electronics I. (3 Credits)**

A. Prerequisite: EET 257. Principles of timing, power control circuitry, transducers, and programmable controllers in commercial and industrial applications. 2 Lec/2 Lab.

**EET 351. Programmable Logic Controllers. (3 Credits)**

A. Prerequisite: EET 251 or 252. The study of programmable logic controllers (PLCs). PLC functioning theory, selection, wiring, and programming. 2 Lec/2 Lab.

**EET 452. Electrical Power & Drives. (3 Credits)**

A. Prerequisites: EET 257; MAT 120 or higher and PHY 101. Principles of electromagnetic induction as applied to the generation, distribution, conversion, control, and measurement of electrical power. Analysis of the electronics used for electrical drives. Installation, programming and maintenance of digital drives. 2 Lec/2 Lab.

## Networking

**NET 302. PC Troubleshooting & Construction. (3 Credits)**

I, II. Prerequisite: TEC 161 or (INF 104 or higher) or (CSC 140 or higher) or (CIS 212 or higher). Construction, operation and troubleshooting microprocessors, system memory, computer architecture, video types, monitors, hard drives, mice, cabling, notebook computers and printers modern operating systems, and application programs. Building computer systems to specific requirements. 2 Lec/2 Lab.

**NET 303. LANs & PC Communications. (3 Credits)**

I, II. Formerly EET 303. Prerequisite: TEC 161 or (INF 104 or higher) or (CSC 140 or higher) or (CIS 212 or higher) and (a grade of at least "C" in MAT 095 or a minimum math ACT score of 18 or a minimum SAT math score of 490). Installing, configuring, managing, and troubleshooting network and computer systems communications hardware and software. 2 Lec/2 Lab.

**NET 343. Network Switches & Routers. (3 Credits)**

A. Formerly EET 343. Prerequisite: NET 303 or EET 303 or CIS 375. Cisco internetworking, switching, IOS, routing, VLAN's, access lists, and WAN protocols are covered in a combination of lecture, demonstration, and laboratory. 2 Lec/2 Lab.

**NET 344. Advanced Network Devices. (3 Credits)**

A. Prerequisite: NET 343. Configure and troubleshoot network-aware devices/objects in small- to mid-sized LANs. Principles of network device/object startup, configuration and management, VLAN, advanced network communications and security. 2 Lec/2 Lab.

**NET 349. Applied Learning in NET. (0.5-8 Credits)**

I, II. Prerequisite: departmental approval, Sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors.

**NET 349A. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349B. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349C. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349D. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349E. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349F. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349G. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349H. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349I. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349J. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349K. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349L. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349M. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349N. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 354. Microcomputer & Network Security. (3 Credits)**

I, II. Formerly EET 354. Prerequisite: NET 303 or EET 303 or CIS 375. Security considerations in computer systems and networks using appropriate hardware and software. Topics include malware, encryption, VPNs, ACLs, firewalls, Wi-Fi, and secure protocols. Testing configuring, managing and troubleshooting security in network systems. 2 Lec/2 Lab.

**NET 367A. Exit Exam for AAS in Tech, with Computer Electronics. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration in NET 367A is required of all undergraduate A.A.S. students in the Technology program specializing in Computer Electronics program for the term in which they wish to take their comprehensive examination.

**NET 367B. Exit Exam for Minor in Computer Electronics Technology. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration in NET 367B is required of all undergraduate students in the Minor for Computer Electronics Technology program for the term in which they wish to take their comprehensive examination.

**NET 385. Advanced Switches & Routers. (3 Credits)**

(3) A. Prerequisite: NET 343. Configure and troubleshoot small to mid-sized switched LANs. Principles of switch and router startup, configuration and management, VLAN, trunking, STP, advanced routing, WAN, scaling IP address space. Configure, apply and verify Access Control Lists. 2 Lec/2 Lab.

**NET 395. Special Topics in NET. (2-3 Credits)**

A. Formerly EET 395. Prerequisite: 30 credit hours or more completed, and (EET 252 or NET 303). Emerging technologies in the area of Network security and electronics (NET). May be retaken up to a maximum of 9 hours provided subject matter differs each time. Lec/Lab.

**NET 399. Associate Degree Capstone. (3 Credits)**

II. Formerly EET 399. Prerequisite: 30 credit hours or more completed, with a minimum of 9 semester hours of NET coursework completed, and a minimum of 6 semester hours of EET coursework completed. A project and research oriented course which serves as a capstone experience at the Associate Degree level. Design, implementation, analysis, and troubleshooting of electronic and computer technology related systems, and managing a technical.

**NET 403. Advanced LANs and PC Communication. (3 Credits)**

A. Formerly EET 403. Prerequisite: NET 303 or EET 303 or CIS 375. This course will cover installation, configuration, troubleshooting and maintaining common server platforms. The participants will be given the opportunity to setup and manage network hardware, operating systems and applications. 2 Lec/2 Lab.

**NET 440. Wired/Wireless Communications. (3 Credits)**

A. Prerequisite: EET 257; MAT 112B or higher and PHY 101. Principles of communication over fiber and other wired/wireless media; digital and analog data transmission; modulation and multiplexing of data. Communication system components, safety, testing and troubleshooting. 2 Lec/2 Lab.

**NET 454. Wireless/WAN Security. (3 Credits)**

A. Prerequisites: (NET 303 or CIS 375) and NET 354. Security considerations in wireless and WANs. Wi-Fi, 802.11x, WPA, RADIUS, encryption, VPNs, VLANs, AAA authentication, Network Security Appliances, and secure protocols. Laboratory based configuration and security testing of WAPs, appliances and servers. 2 Lec/2 Lab.

**NET 467. Exit Exam for BS in NET. (0 Credits)**

(0) A. Prerequisite: Consent to advisor. Registration in NET 467 is required of all undergraduate B.S. (NET) students for the term in which they wish to take their comprehensive examination, including the exit exam and advisor approved certification or license.

**NET 499. Senior Capstone. (3 Credits)**

II. Formerly EET 499. Prerequisite: 90 credit hours or more completed, with a minimum of 18 semester hours of NET coursework completed, and a minimum of 9 semester hours of EET coursework completed, and AEM 310W. A project and research oriented course which serves as a capstone experience at the Bachelor Degree level. Design, implementation, analysis, and troubleshooting of networking, computers and electronics technology related systems, and managing a technical project.

## Aerospace Management, Minor

### Program Requirements

A student may minor in aerospace management by completing a minimum of 18 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
AVN 150	Introduction to Aviation	3
AVN 315	Aviation Safety Programs	3
AVN 340	Airport Management I: Operations and Security	3
AVN 350	Air Transportation	3
AVN 460	Aviation Law	3
Choose from one of the following:		3
AVN 341	Airport Management II: Planning and Administration	
AVN 349	Cooperative Study: Aviation	
AVN 360	General Aviation Management	
<b>Total Hours</b>		<b>18</b>

## Aviation (Flight), Minor

### Program Requirements

A student may minor in aviation (flight) by completing a minimum of 23 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
AVN 150	Introduction to Aviation	3
AVN 161	Private Pilot- Airplane: Ground (Part 61)	4
AVN 161A	Private Pilot- Airplane (Part 61): Flight I	1
AVN 162A	Private Pilot- Airplane (Part 61): Flight II	1
AVN 220	Instrument Pilot: Ground	4
AVN 221A	Instrument Pilot: Flight I	1
AVN 222A	Instrument Pilot: Flight II	1
AVN 300	Commercial Pilot: Ground	2
AVN 315	Aviation Safety Programs	3
GEO 315	Meteorology	3
or AVN 335	Weather Reporting/Analysis	
<b>Total Hours</b>		<b>23</b>

## Aviation, Bachelor of Science with a Concentration in Aerospace Management (B.S.)

### Note: VA Regulations for Aviation Courses

Students using GI Bill® benefits to fund an aviation course must complete each course and/or flight lab within one year of initial registration; failure to do so will result in the student being assigned a grade of NC (No Credit). Students using GI Bill® benefits must repay to the VA the cost (including a portion of stipends for living expenses) related to any course in which a grade of NC is earned. All student participants receiving Veterans Administration benefits have 19 calendar weeks from the date of the first flight event to complete an Aviation flight lab.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <http://www.benefits.va.gov/gibill> (<http://www.benefits.va.gov/gibill/>)

### Aviation Flight Hours & Costs/Fees

A complete listing of aviation related fees for the current academic year is published on the EKU Aviation Flight Fees website (<http://aviation.eku.edu/aviation-flight-fees>), and included in materials provided by the flight instructors.

Additionally, all VA funded flight students receive this information from the EKU and Veteran Affairs during their enrollment certification process. Students should verify through their regional Department of Veterans Affairs processing office if they have questions regarding their eligibility to use VA resources to complete the requirements of the EKU Aviation program.

### Program Requirements

CIP Code: 49.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

All aviation courses (AVN prefix) must be completed with a grade of "C" or above.

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
Nine supporting hours are included within the 36 hours of General Education requirements		
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Aviation majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
AVN 401	Airline Management	
<b>Major Requirements</b>		
<i>Core Courses</i>		
AVN 150	Introduction to Aviation	3
AVN 250	Air Transportation	3
AVN 315	Aviation Safety Programs	3
AVN 325	Aircraft Systems	3
AVN 329W	Aviation Human Factors	3
AVN 340	Airport Management I: Operations and Security	3
AVN 370	Aviation Supervision and Leadership	3
AVN 390	Aviation Decision Making	3
AVN 399	Aviation Prof Skills Seminar	0
AVN 401	Airline Management	3
AVN 402	Corporate and Business Aviation	3
AVN 410	Air Traffic Control	3
AVN 460	Aviation Law	3
AVN 467	Comprehensive Exam for BS in Aviation	0
AVN 499	Aviation Careers Seminar	0
<b>Concentrations</b>		
Students must select one of the following Concentrations: <sup>1</sup>		33-36
Professional Flight		
Aerospace Management		
Aerospace Technology		
Unmanned Aircraft Systems		
<i>Supporting Course Requirements</i>		
AVN 335	Weather Reporting/Analysis	3
or GEO 315	Meteorology	
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	3
MAT 112	Algebra with Applications (or higher) (Element 2) <sup>G</sup>	3
BIO 307	Human Anatomy and Physiology I	3
or MGT 300	Principles of Management	
PHY 101	Conceptual Physics (or higher)(Element 4)	3
Choose from one of the following:		

CMS 100	Introduction to Human Communication (Element 1C) <sup>G</sup>	
CMS 210	Public Speaking (Element 1C) <sup>G</sup>	
EES 250	Basic Social Intelligence Skills (Element 1C) <sup>G</sup>	
<i>Free Electives</i>		
Choose from 2-7 hours of free electives		2-7
<i>Exit Requirements</i>		
Students must take an Aviation exit examination before graduation.		
AVN 467	Comprehensive Exam for BS in Aviation (CR only)	0
<b>Total Hours</b>		<b>123-131</b>

<sup>1</sup> Note: selecting only lower division courses may result in additional course work being needed to meet the University requirement of 42 hours of upper division credits. Students are referred to Degree Works to check for course pre-requisites and monitor upper division hours.

<sup>G</sup> Course also satisfies a General Education element. Supporting hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ACC 200	Survey of Accounting	3
AVN 341	Airport Management II: Planning and Administration	3
AVN 360	General Aviation Management	3
ECO 231	Fundamentals of Macroeconomics	3
GBU 204	Legal and Ethical Environments of Business	3
HLS 101	Introduction to Homeland Security	3
MKT 301	Principles of Marketing (NB)	3
<b>Total Hours</b>		<b>21</b>

## Aviation, Bachelor of Science with a Concentration in Aerospace Technology (B.S.)

### Note: VA Regulations for Aviation Courses

Students using GI Bill<sup>®</sup> benefits to fund an aviation course must complete each course and/or flight lab within one year of initial registration; failure to do so will result in the student being assigned a grade of NC (No Credit). Students using GI Bill<sup>®</sup> benefits must repay to the VA the cost (including a portion of stipends for living expenses) related to any course in which a grade of NC is earned. All student participants receiving Veterans Administration benefits have 19 calendar weeks from the date of the first flight event to complete an Aviation flight lab.

GI Bill<sup>®</sup> is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <http://www.benefits.va.gov/gibill> (<http://www.benefits.va.gov/gibill/>)

## Aviation Flight Hours & Costs/Fees

A complete listing of aviation related fees for the current academic year is published on the EKU Aviation Flight Fees website (<http://aviation.eku.edu/aviation-flight-fees>), and included in materials provided by the flight instructors.

Additionally, all VA funded flight students receive this information from the EKU and Veteran Affairs during their enrollment certification process. Students should verify through their regional Department of Veterans Affairs processing office if they have questions regarding their eligibility to use VA resources to complete the requirements of the EKU Aviation program.

## Program Requirements

CIP Code: 49.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

All aviation courses (AVN prefix) must be completed with a grade of "C" or above.

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
Nine supporting hours are included within the 36 hours of General Education requirements		
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT - Aviation majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

AVN 401	Airline Management	
<b>Major Requirements</b>		
<i>Core Courses</i>		
AVN 150	Introduction to Aviation	3
AVN 250	Air Transportation	3
AVN 315	Aviation Safety Programs	3
AVN 325	Aircraft Systems	3
AVN 329W	Aviation Human Factors	3
AVN 340	Airport Management I: Operations and Security	3
AVN 370	Aviation Supervision and Leadership	3
AVN 390	Aviation Decision Making	3
AVN 399	Aviation Prof Skills Seminar	0
AVN 401	Airline Management	3
AVN 402	Corporate and Business Aviation	3
AVN 410	Air Traffic Control	3
AVN 460	Aviation Law	3
AVN 467	Comprehensive Exam for BS in Aviation	0
AVN 499	Aviation Careers Seminar	0

### Concentrations

Students must select one of the following Concentrations: <sup>1</sup> 33-36

Professional Flight	
Aerospace Management	
Aerospace Technology	
Unmanned Aircraft Systems	

### Supporting Course Requirements

AVN 335	Weather Reporting/Analysis	3
or GEO 315	Meteorology	
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	3
MAT 112	Algebra with Applications (or higher) (Element 2) <sup>G</sup>	3
BIO 307	Human Anatomy and Physiology I	3
or MGT 300	Principles of Management	
PHY 101	Conceptual Physics (or higher)(Element 4)	3

Choose from one of the following:

CMS 100	Introduction to Human Communication (Element 1C) <sup>G</sup>	
CMS 210	Public Speaking (Element 1C) <sup>G</sup>	
EES 250	Basic Social Intelligence Skills (Element 1C) <sup>G</sup>	

### Free Electives

Choose from 2-7 hours of free electives 2-7

### Exit Requirements

Students must take an Aviation exit examination before graduation.

AVN 467	Comprehensive Exam for BS in Aviation (CR only)	0
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**Total Hours 123-131**

1

Note: selecting only lower division courses may result in additional course work being needed to meet the University requirement of 42 hours of upper division credits. Students are referred to Degree Works to check for course pre-requisites and monitor upper division hours.

**G**

Course also satisfies a General Education element. Supporting hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AVN 360	General Aviation Management	3
AVN 435	Turbine Aircraft Systems	3
	Choose from 25 hours of aviation technical electives	25
<b>Total Hours</b>		<b>31</b>

# Aviation, Bachelor of Science with a Concentration in Professional Flight (B.S.)

## Note: VA Regulations for Aviation Courses

Students using GI Bill® benefits to fund an aviation course must complete each course and/or flight lab within one year of initial registration; failure to do so will result in the student being assigned a grade of NC (No Credit). Students using GI Bill® benefits must repay to the VA the cost (including a portion of stipends for living expenses) related to any course in which a grade of NC is earned. All student participants receiving Veterans Administration benefits have 19 calendar weeks from the date of the first flight event to complete an Aviation flight lab.

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## Aviation Flight Hours & Costs/Fees

A complete listing of aviation related fees for the current academic year is published on the EKU Aviation Flight Fees website (<http://aviation.eku.edu/aviation-flight-fees>), and included in materials provided by the flight instructors.

Additionally, all VA funded flight students receive this information from the EKU and Veteran Affairs during their enrollment certification process. Students should verify through their regional Department of Veterans Affairs processing office if they have questions regarding their eligibility to use VA resources to complete the requirements of the EKU Aviation program.

## Program Requirements

CIP Code: 49.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3

**Element 3**

A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3

**Element 4**

	Natural Sciences (p. 64)	6
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**Element 5**

A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3

**Element 6**

	Diversity of Perspectives Experiences (p. 65)	6
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<b>Total Hours</b>		<b>36</b>
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Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

All aviation courses (AVN prefix) must be completed with a grade of “C” or above.

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36

Nine supporting hours are included within the 36 hours of General Education requirements

*Student Success Seminar*

BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Aviation majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

AVN 401	Airline Management
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**Major Requirements**

*Core Courses*

AVN 150	Introduction to Aviation	3
AVN 250	Air Transportation	3
AVN 315	Aviation Safety Programs	3
AVN 325	Aircraft Systems	3
AVN 329W	Aviation Human Factors	3
AVN 340	Airport Management I: Operations and Security	3
AVN 370	Aviation Supervision and Leadership	3
AVN 390	Aviation Decision Making	3
AVN 399	Aviation Prof Skills Seminar	0
AVN 401	Airline Management	3
AVN 402	Corporate and Business Aviation	3
AVN 410	Air Traffic Control	3
AVN 460	Aviation Law	3
AVN 467	Comprehensive Exam for BS in Aviation	0
AVN 499	Aviation Careers Seminar	0

**Concentrations**

Students must select one of the following Concentrations: <sup>1</sup>	33-36
Professional Flight	

Aerospace Management		
Aerospace Technology		
Unmanned Aircraft Systems		
<i>Supporting Course Requirements</i>		
AVN 335	Weather Reporting/Analysis	3
or GEO 315	Meteorology	
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	3
MAT 112	Algebra with Applications (or higher) (Element 2) <sup>G</sup>	3
BIO 307	Human Anatomy and Physiology I	3
or MGT 300	Principles of Management	
PHY 101	Conceptual Physics (or higher)(Element 4)	3
Choose from one of the following:		
CMS 100	Introduction to Human Communication (Element 1C) <sup>G</sup>	
CMS 210	Public Speaking (Element 1C) <sup>G</sup>	
EES 250	Basic Social Intelligence Skills (Element 1C) <sup>G</sup>	
<i>Free Electives</i>		
Choose from 2-7 hours of free electives		2-7
<i>Exit Requirements</i>		
Students must take an Aviation exit examination before graduation.		
AVN 467	Comprehensive Exam for BS in Aviation (CR only)	0
<b>Total Hours</b>		<b>123-131</b>

1

Note: selecting only lower division courses may result in additional course work being needed to meet the University requirement of 42 hours of upper division credits. Students are referred to Degree Works to check for course pre-requisites and monitor upper division hours.

**G**

Course also satisfies a General Education element. Supporting hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AVN 161	Private Pilot- Airplane: Ground (Part 61)	4
AVN 161A	Private Pilot- Airplane (Part 61): Flight I	1
AVN 162A	Private Pilot- Airplane (Part 61): Flight II	1
AVN 220	Instrument Pilot: Ground	4
AVN 221A	Instrument Pilot: Flight I	1
AVN 222A	Instrument Pilot: Flight II	1
AVN 305	Multi- Engine Pilot (MEL): Ground	1
AVN 305A	Multi- Engine: Flight	1
AVN 300	Commercial Pilot: Ground	2
AVN 330	Crew Resource Management	3
AVN 415	Instructor Pilot- SEL: Ground	3
AVN 301A	Commercial Pilot- SEL: Flight I	2
AVN 302A	Commercial Pilot- SEL: Flight II	1
AVN 303A	Commercial Pilot- SEL: Flight III	1
AVN 304A	Commercial Pilot- SEL: Flight IV	2
AVN 415	Instructor Pilot- SEL: Ground	3
AVN 415A	Instructor Pilot- SEL: Flight	1
AVN 425	Applied Aerodynamics	3
AVN 435	Turbine Aircraft Systems	3

AVN 480	Glass Flight Deck Technologies	1
<b>Total Hours</b>		<b>39</b>

## Aviation, Bachelor of Science with a Concentration in Unmanned Aircraft Systems (B.S.)

### Note: VA Regulations for Aviation Courses

Students using GI Bill<sup>®</sup> benefits to fund an aviation course must complete each course and/or flight lab within one year of initial registration; failure to do so will result in the student being assigned a grade of NC (No Credit). Students using GI Bill<sup>®</sup> benefits must repay to the VA the cost (including a portion of stipends for living expenses) related to any course in which a grade of NC is earned. All student participants receiving Veterans Administration benefits have 19 calendar weeks from the date of the first flight event to complete an Aviation flight lab.

GI Bill<sup>®</sup> is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <http://www.benefits.va.gov/gibill> (<http://www.benefits.va.gov/gibill/>)

### Aviation Flight Hours & Costs/Fees

A complete listing of aviation related fees for the current academic year is published on the EKU Aviation Flight Fees website (<http://aviation.eku.edu/aviation-flight-fees> (<http://aviation.eku.edu/aviation-flight-fees/>)), and included in materials provided by the flight instructors.

Additionally, all VA funded flight students receive this information from the EKU and Veteran Affairs during their enrollment certification process. Students should verify through their regional Department of Veterans Affairs processing office if they have questions regarding their eligibility to use VA resources to complete the requirements of the EKU Aviation program.

### Program Requirements

CIP Code: 49.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

All aviation courses (AVN prefix) must be completed with a grade of "C" or above.

Code	Title	Hours
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<b>University Graduation Requirements</b>		
General Education		36
Nine supporting hours are included within the 36 hours of General Education requirements		

<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Aviation majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

AVN 401	Airline Management	
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#### Major Requirements

*Core Courses*

AVN 150	Introduction to Aviation	3
AVN 250	Air Transportation	3
AVN 315	Aviation Safety Programs	3
AVN 325	Aircraft Systems	3
AVN 329W	Aviation Human Factors	3
AVN 340	Airport Management I: Operations and Security	3
AVN 370	Aviation Supervision and Leadership	3
AVN 390	Aviation Decision Making	3
AVN 399	Aviation Prof Skills Seminar	0
AVN 401	Airline Management	3
AVN 402	Corporate and Business Aviation	3
AVN 410	Air Traffic Control	3
AVN 460	Aviation Law	3
AVN 467	Comprehensive Exam for BS in Aviation	0
AVN 499	Aviation Careers Seminar	0

#### Concentrations

Students must select one of the following Concentrations:<sup>1</sup> 33-36

Professional Flight	
Aerospace Management	
Aerospace Technology	
Unmanned Aircraft Systems	

*Supporting Course Requirements*

AVN 335	Weather Reporting/Analysis	3
or GEO 315	Meteorology	
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	3
MAT 112	Algebra with Applications (or higher) (Element 2) <sup>G</sup>	3
BIO 307	Human Anatomy and Physiology I	3

or MGT 300	Principles of Management	
PHY 101	Conceptual Physics (or higher)(Element 4)	3

Choose from one of the following:

CMS 100	Introduction to Human Communication (Element 1C) <sup>G</sup>	
CMS 210	Public Speaking (Element 1C) <sup>G</sup>	
EES 250	Basic Social Intelligence Skills (Element 1C) <sup>G</sup>	

*Free Electives*

Choose from 2-7 hours of free electives	2-7
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*Exit Requirements*

Students must take an Aviation exit examination before graduation.		
AVN 467	Comprehensive Exam for BS in Aviation (CR only)	0

<b>Total Hours</b>	<b>123-131</b>
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1

Note: selecting only lower division courses may result in additional course work being needed to meet the University requirement of 42 hours of upper division credits. Students are referred to Degree Works to check for course pre-requisites and monitor upper division hours.

G

Course also satisfies a General Education element. Supporting hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
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#### Concentration Courses

AVN 105	UAS Safety and Regulations	3
AVN 170	Introduction to Unmanned Aircraft Systems	3
AVN 290	UAS Flight Operations	3
AVN 310	UAS Ground/Flight Operations	3
AVN 312	UAS Commercial Single/Multi En	3
AVN 330	Crew Resource Management	3
AVN 412	Counter UAS Operations	3
AVN 425	Applied Aerodynamics	3
GEO 110	Environmental Geography (Element 4)	3
or GEO 210	Introduction to Physical Geography	
GEO 353	Geographic Information Systems	3
GEO 456	Remote Sensing	3
GEO 458	Advanced Geographic Imagery	3
GEO 501	Advanced Geography:___	3

<b>Total Hours</b>	<b>39</b>
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## Career and Technical Education (Teaching), Associate of Applied Science (A.A.S.)

**Note:** Enrollment in this program is restricted to in-service technical teachers and graduates of a technical program at a Community or Technical College.

This program is offered in cooperation with the College of Education and Applied Human Sciences.

The AAS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

Graduates of this program must have a minimum of 4,000 hours of supervised work experience or four years of occupational experience in the area to be taught.

## Program Requirements

CIP Code: 13.1319

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		20-21
Elements:		
Choose from 20-21 hours of the following:		
Elements 1A, and 1B with a grade of "A" or "B"		
ENG 101	Reading, Writing, and Rhetoric	
ENG 102	Research, Writing, and Rhetoric	
ENG 105	First Year Writing Seminar	
Element 2:		
MAT 114	College Algebra (or higher)	
Any Element 3A or 3B course		
Any Element 5A or 5B course		
Five hours of any other General Education coursework		
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
<b>Major Requirements</b>		
<i>Core Courses</i>		
TEC 161	Computer Applications in Technology	3
Choose from 21 hours from the technical area, or related to the area in which the individual proposes to teach, as approved by the advisor 1,2		21
<i>Supporting Course Requirements</i>		
CTE 261	Foundations of Career and Technical Education	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 364	Methods in Career and Technical Education	3
CTE 463	Practicum in Career and Technical Education <sup>3</sup>	12
<i>Exit Exam</i>		
Students must take a professional career and technical education assessment and the Teacher Occupational Competency Test (TOCT) before graduation.		
<i>Exit Requirements</i>		
PRAXIS Examination		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>66-67</b>

1

A maximum of nine hours (CTE 204 Related Sci Math & Tech: Occ I, CTE 205 Manipulative Skills: Occ I, CTE 206 Related Knowledge: Occ I) may be earned by proficiency examination.

2

Nine hours credit may be supervised work experience (TEC 349 Applied Learning in Technology).

3

In#service teachers should substitute CTE 164 Orientation to Career and Technical Education, CTE 363 Evaluation in Career and Technical Education, CTE 463 Practicum in Career and Technical Education (4), and EDF 319 or SED 104 Special Education Introduction for CTE 463 Practicum in Career and Technical Education (12).

## Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Agriculture Education (B.S.)

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

This program is offered in cooperation with the College of Education and Applied Human Sciences.

## Program Requirements

CIP Code: 13.1319

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3
<b>Element 6</b>		
Diversity of Perspectives Experiences (p. 65)		6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

#### Pre#Service Teacher Education Program

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		

BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
CTE 463	Practicum in Career and Technical Education or ESE 499	

**Major Requirements**

*College Requirements*

BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0

*Career and Technical Education Requirements*

CTE 262	Foundations of Career and Technical Education (Pre-Service)	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3

**Concentrations**

Students must select one of the following Concentrations:	45
Agriculture Education	
Technical Education	
Engineering/Technology Education <sup>1</sup>	

*Professional Education Requirements*

EDF 203	Educational Foundations	1
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	2
EMS 300W	Curriculum and Instructional Design	1
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	1
ESE 552	Teaching of Career and Technical Education in Middle and Secondary Schools	3

SED 104	Special Education Introduction (Element 6) <sup>G,C</sup>	
SED 402		2
TEC 368	Workshop in Technology <sup>2</sup>	3

Clinical Experiences:

CED 100	Clinical I: Introduction to the Education Profession	0.5
CED 200	Clinical II: Understanding the Learner	0.5
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9

*Supporting Course Requirements*

MAT 114	College Algebra (or higher) (Element 2) <sup>G</sup>	
SED 104	Special Education Introduction (Element 6) <sup>G,2</sup>	

*Free Electives*

Choose from 3-5 hours of free electives	3-5
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*Exit Requirements*

PRAXIS Examination	
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Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours** **125-127**

**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**C**

Course also satisfies Core or Concentration requirements.

1

Those desiring eligibility to teach in pre-engineering education programs at the middle school and high school level should take the following general education courses: CHE 111 General Chemistry, MAT 114 College Algebra, MAT 120 Trigonometry, PHY 131 College Physics I.

2

Course meets Professional Education Requirements.

Graduates completing the Pre-Service Teacher Education concentration must have a minimum of 2000 clock hours of planned and supervised work experience in the occupation in which they will teach or a minimum of three years of approved work experience in the occupation in which they will teach. Students must also take the PRAXIS II Specialty Examination before graduation.

Candidates earning a degree that leads to pre-service teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year. Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
<i>Animal Science</i>		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
Choose from one of the following:		3
AGR 321	Feeds and Feeding	
AGR 327	Beef Production	
AGR 328	Swine Production	
AGR 380	Technical Management of Dairy Cattle	
<i>Agricultural Systems Management:</i>		
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
Choose from one of the following:		3
AGR 272		
AGR 311	Agriculture Metal Fabrication	
AGR 362	Hydraulic Systems	
AGR 383	Diesel Power Systems	

Soil Science:

AGR 215	Principles of Soils	3
Choose from one of the following:		3
AGR 315		
AGR 317		
AGR 318	Soil/Water Conservation Technology	
Plant Science:		
Choose from one of the following:		4
AGR 130	Plant Science	
& AGR 131	and Plant Science Laboratory	
OHO 131	Plant Science	
& OHO 132	and Plant Science Laboratory	
Choose from one of the following:		3
AGR 312	Ecology and Management of Grasslands and Pastures	
AGR 417		
OHO 384		
or OHO 385		
Agriculture Business:		
AGR 308	Agricultural Economics	3
Choose from one of the following:		3
AGR 310	Principles of Agribusiness Management	
AGR 350	Agricultural Marketing	
AGR 409	Agriculture Business Records and Analysis	
AGR 440	Agricultural Financing	
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
Choose Agriculture or Horticulture electives to make 45 credit hours selected in consultation with your advisor		8
<b>Total Hours</b>		<b>45</b>

## Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Engineering/Technology Education (B.S.)

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

This program is offered in cooperation with the College of Education and Applied Human Sciences.

### Program Requirements

CIP Code: 13.1319

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3

C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

#### Pre-Service Teacher Education Program

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

CTE 463	Practicum in Career and Technical Education or ESE 499	
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0
<i>Career and Technical Education Requirements</i>		
CTE 262	Foundations of Career and Technical Education (Pre-Service)	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3

#### Concentrations

Students must select one of the following Concentrations:	45
Agriculture Education	
Technical Education	
Engineering/Technology Education <sup>1</sup>	

<i>Professional Education Requirements</i>		
EDF 203	Educational Foundations	1
EDF 219	Human Development and Learning	3

EDF 413	Assessment in Education	2
EMS 300W	Curriculum and Instructional Design	1
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	1
ESE 552	Teaching of Career and Technical Education in Middle and Secondary Schools	3
SED 104	Special Education Introduction (Element 6) <sup>G,C</sup>	
SED 402		2
TEC 368	Workshop in Technology <sup>2</sup>	3
Clinical Experiences:		
CED 100	Clinical I: Introduction to the Education Profession	0.5
CED 200	Clinical II: Understanding the Learner	0.5
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>Supporting Course Requirements</i>		
MAT 114	College Algebra (or higher) (Element 2) <sup>G</sup>	
SED 104	Special Education Introduction (Element 6) <sup>G,2</sup>	
<i>Free Electives</i>		
Choose from 3-5 hours of free electives		3-5
<i>Exit Requirements</i>		
PRAXIS Examination		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>125-127</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**C**  
Course also satisfies Core or Concentration requirements.

**1**  
Those desiring eligibility to teach in pre-engineering education programs at the middle school and high school level should take the following general education courses: CHE 111 General Chemistry, MAT 114 College Algebra, MAT 120 Trigonometry, PHY 131 College Physics I.

**2**  
Course meets Professional Education Requirements.

**Technical Education - Pre-Service Teacher Education Program Concentration**

Graduates completing the Pre-Service Teacher Education concentration must have a minimum of 2000 clock hours of planned and supervised work experience in the occupation in which they will teach or a minimum of three years of approved work experience in the occupation in which they will teach. Students must also take the PRAXIS II Specialty Examination before graduation.

Candidates earning a degree that leads to pre-service teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior

to beginning the senior year. Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 195	Computer Aided Drafting	3
AEM 201	Metallic Material Processes	3
AEM 371	Hydraulics and Pneumatics	3
AEM 383	CAD/CAM Integration	3
CON 121	Introduction to Construction	3
CON 201	Materials and Methods of Construction	3
CON 294	Construction Graphics	3
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
TEC 161	Computer Applications in Technology	3
TEC 190	Technical Graphics	3
TEC 303	Problem Solving and Engineering	3
TEC 404	Princ. of Engr. and Tech.	3
Choose from three hours of the following:		
AVN 150	Introduction to Aviation	
GCM 211	Graphic Communication	
TEC 102	Technology and Society	
TEC 141	Elementary Woodworking	
<b>Total Hours</b>		<b>45</b>

**Career and Technical Education/ Teaching, Bachelor of Science with a Concentration in Occupational Training and Development (B.S.)**

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

This program is offered in cooperation with the College of Education and Applied Human Sciences.

**Program Requirements**

CIP Code: 13.1319

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3

C: Oral Communication (p. 62)	3
<b>Element 2</b>	
Quantitative Reasoning (p. 63)	3
<b>Element 3</b>	
A: Arts (p. 63)	3
B: Humanities (p. 63)	3
<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

#### In#Service Teacher Education Program

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
CTE 463	Practicum in Career and Technical Education or ESE 499	
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0
<i>Professional Education Requirements</i>		
CTE 164	Orientation to Career and Technical Education	3
CTE 261	Foundations of Career and Technical Education	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3
CTE 364	Methods in Career and Technical Education	3
CTE 463	Practicum in Career and Technical Education	4
EDF 320	Human Development and Learning for Vocational Education	3
TEC 161	Computer Applications in Technology	3

#### Concentrations

Students must select one of the following Concentrations:

Technical Education
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Occupational Training and Development	45
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<b>Supporting Course Requirements</b>	
MAT 114	College Algebra (or higher) (Element 2) <sup>G</sup>
SED 104	Special Education Introduction (Element 6) <sup>G,1</sup>
<b>Free Electives</b>	
Choose from 13 hours of free electives	13
<b>Exit Requirements</b>	
PRAXIS Examination	
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.	
<b>Total Hours</b>	<b>120</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**1**  
Course meets Professional Education Requirements.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 45 semester hours of technical courses to be chosen in consultation with the advisor <sup>1</sup>		45
<b>Total Hours</b>		<b>45</b>

**1**  
A maximum of 18 semester hours (in CTE 204 Related Sci Math & Tech: Occ I, CTE 205 Manipulative Skills: Occ I, CTE 206 Related Knowledge: Occ I, CTE 304 Rel Sci Math & Tech in Occ, CTE 305 Manipul Skills Occupation II and CTE 306 Related Knowledge: Occ II may be allowed by proficiency examination).

## Career and Technical Education/Teaching, Bachelor of Science with a Concentration in Technical Education (B.S.)

Career and Technical Education concentrations require all pre-service students to meet the general education knowledge for initial teacher preparation requirements (see College of Education section of this *Catalog*).

The BS degree program in Career and Technical Education is accredited by the Council for the Accreditation of Educator Preparation.

This program is offered in cooperation with the College of Education and Applied Human Sciences.

### Program Requirements

CIP Code: 13.1319

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major Pre-Service Teacher Education Program

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
CTE 463	Practicum in Career and Technical Education or ESE 499	
<b>Major Requirements</b>		
<i>College Requirements</i>		
BUS 300	Professional Development Three (CR only, no hours)	0
BUS 400	Professional Development Four (CR only, no hours)	0
<i>Career and Technical Education Requirements</i>		
CTE 262	Foundations of Career and Technical Education (Pre-Service)	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		45
Agriculture Education		

<b>Technical Education</b>		
Engineering/Technology Education <sup>1</sup>		
<i>Professional Education Requirements</i>		
EDF 203	Educational Foundations	1
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	2
EMS 300W	Curriculum and Instructional Design	1
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	1
ESE 552	Teaching of Career and Technical Education in Middle and Secondary Schools	3
SED 104	Special Education Introduction (Element 6) <sup>G,C</sup>	
SED 402		2
TEC 368	Workshop in Technology <sup>2</sup>	3
<i>Clinical Experiences:</i>		
CED 100	Clinical I: Introduction to the Education Profession	0.5
CED 200	Clinical II: Understanding the Learner	0.5
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>Supporting Course Requirements</i>		
MAT 114	College Algebra (or higher) (Element 2) <sup>G</sup>	
SED 104	Special Education Introduction (Element 6) <sup>G,2</sup>	
<i>Free Electives</i>		
Choose from 3-5 hours of free electives		3-5
<i>Exit Requirements</i>		
PRAXIS Examination		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>125-127</b>

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**C**  
Course also satisfies Core or Concentration requirements.

**1**  
Those desiring eligibility to teach in pre-engineering education programs at the middle school and high school level should take the following general education courses: CHE 111 General Chemistry, MAT 114 College Algebra, MAT 120 Trigonometry, PHY 131 College Physics I.

**2**  
Course meets Professional Education Requirements.

### Technical Education - Pre-Service Teacher Education Program Concentration

Graduates completing the Pre-Service Teacher Education concentration must have a minimum of 2000 clock hours of planned and supervised work experience in the occupation in which they will teach or a minimum of three years of approved work experience in the occupation in which they will teach. Students must also take the PRAXIS II Specialty Examination before graduation.

Candidates earning a degree that leads to pre-service teacher certification must take the PRAXIS Series (Professional Assessments for Beginning Teachers) and PLT (Principles of Learning and Teaching) exams as a requirement for graduation. Candidates are encouraged to review the schedule for PRAXIS and PLT registration deadlines prior to beginning the senior year. Specialty exams are required for each certification area sought and it may take more than one test date to complete all requirements. Candidates should confer with their education advisor/counselor to determine the most optimal time to take required exams.

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 45 semester hours of technical courses to be chosen in consultation with the advisor <sup>1</sup>		45
<b>Total Hours</b>		<b>45</b>

1

- A maximum of 18 semester hours (in CTE 204 Related Sci Math & Tech: Occ I, CTE 205 Manipulative Skills: Occ I, CTE 206 Related Knowledge: Occ I, CTE 304 Rel Sci Math & Tech in Occ, CTE 305 Manipul Skills Occupation II, and CTE 306 Related Knowledge: Occ II may be allowed by proficiency examination; TEC 349 Applied Learning in Technology [9 hours]).
- TEC 349 Applied Learning in Technology - Course meets Professional Education Requirements.

### In-Service Teacher Education Program

Code	Title	Hours
<b>University Graduation Requirements</b>		

General Education		36
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#### Student Success Seminar

BUS 100	Professional Development One (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Career and Technical Education majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

CTE 463	Practicum in Career and Technical Education or ESE 499	
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#### Major Requirements

##### College Requirements

BUS 300	Professional Development Three (CR only, no hours)	0
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BUS 400	Professional Development Four (CR only, no hours)	0
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##### Professional Education Requirements

CTE 164	Orientation to Career and Technical Education	3
CTE 261	Foundations of Career and Technical Education	3
CTE 361	Course Materials in Career and Technical Education	3
CTE 363	Evaluation in Career and Technical Education	3
CTE 364	Methods in Career and Technical Education	3
CTE 463	Practicum in Career and Technical Education	4

EDF 320	Human Development and Learning for Vocational Education	3
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TEC 161	Computer Applications in Technology	3
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#### Concentrations

Students must select one of the following Concentrations: 45

##### Technical Education

Occupational Training and Development

##### Supporting Course Requirements

MAT 114 College Algebra (or higher) (Element 2) <sup>G</sup>

SED 104 Special Education Introduction (Element 6) <sup>G,1</sup>

##### Free Electives

Choose from 3-5 hours of free electives 3-5

##### Exit Requirements

##### PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours** 110-112

#### G

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

1

Course meets Professional Education Requirements.

#### Concentration

Code	Title	Hours
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#### Concentration Courses

Choose from 45 semester hours of technical courses to be chosen in consultation with the advisor <sup>1</sup> 45

**Total Hours** 45

1

A maximum of 18 semester hours (in CTE 204 Related Sci Math & Tech: Occ I, CTE 205 Manipulative Skills: Occ I, CTE 206 Related Knowledge: Occ I, CTE 304 Rel Sci Math & Tech in Occ, CTE 305 Manipul Skills Occupation II and CTE 306 Related Knowledge: Occ II may be allowed by proficiency examination).

## Computer Electronics Technology, Minor

### Program Requirements

Code	Title	Hours
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#### Required Courses

EET 251	Electricity and Electronics	3
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EET 252	Digital Electronics	3
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Choose from one of the following: 3

EET 253 Microprocessor Control Systems

EET 351 Programmable Logic Controllers

AEM 352 Robotics and Automated Systems

NET 302	PC Troubleshooting & Construction	3
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NET 303	LANs & PC Communications	3
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Choose from one of the following: 3

NET 343	Network Switches & Routers	
NET 354	Microcomputer & Network Security	
NET 395	Special Topics in NET	
Upper-division NET course approved by advisor		
<i>Exit Requirements</i>		
Students must take an assessment examination for completing the minor.		
NET 367B	Exit Exam for Minor in Computer Electronics Technology (CR only, no hours)	0
<b>Total Hours</b>		<b>18</b>

Prerequisites may be required for some course selections.

## Construction Management, Bachelor of Science (B.S.)

The Construction Management program is accredited by the American Council for Construction Education.

### Program Requirements

CIP Code: 52.2001

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hours)	1
Writing Intensive Course (Hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		

Upper division courses (42 hours distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Construction Management majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

CON 499	Construction Mgt. Capstone	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CON 121	Introduction to Construction	3
CON 201	Materials and Methods of Construction	3
CON 202	Materials and Methods of Construction II	3
CON 221	Plane Surveying	3
CON 294	Construction Graphics	3
CON 303	Statics and Strength of Materials	3
CON 307	Soils and Foundations	3
CON 320	Construction Surveying	3
CON 322	Construction Structural Design	3
CON 324	Mechanical/Electrical Systems	3
CON 325	Construction Estimating	4
CON 326	Horizontal Construction	3
CON 349	Applied Learning in Construction Management <sup>1</sup>	3
CON 420	Engineering Economy	3
CON 421	Construction Contracts	3
CON 425	Project Organization and Supervision	3
CON 426	Scheduling	3
CON 428	Construction Sustainability	3
CON 499	Construction Mgt. Capstone	4

#### *Supporting Course Requirements*

ACC 200	Survey of Accounting	3
AEM 310W	Technical Communication	3
or CCT 201	Professional Communication	
MGT 301	Principles of Management (NB)	3
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
BUS 204	Fundamentals of Business Law and Ethics	3
GLY 108	Earthquakes and Volcanoes (Element 4) <sup>G</sup>	

Take the following MAT sequence or Or choose from seven hours of higher-level MAT courses:

MAT 120	Trigonometry (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus	
& MAT 217	and	
TEC 161	Computer Applications in Technology	3
PHY 131	College Physics I (Element 4) <sup>G</sup>	

Choose three hours of ACC, CCT, CIS, ECO, FIN, GBU, RMI, MGT, MKT, QMB, or RST electives as approved by major advisor <sup>2,3</sup>

#### *Exit Requirements*

Students must take a construction assessment examination before graduation. An exam fee is required.

**Total Hours** **121**

#### **G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of six hours will count toward Element 4.

1

Three separate enrollments of CON 349 Applied Learning in Construction Management are recommended in order to achieve a total of 3 cr. hrs.

2

Business electives may be upper or lower division as necessary in order to complete upper division requirement.

3

Students wishing to pursue the Minor in Business must confer with their major advisor to make substitutions to the supporting course requirements. QMB, RMI, and RST courses do not apply to the Minor in Business.

## Construction Management, Minor

The Construction Management minor provides technical and managerial knowledge about the construction industry. It is an appropriate supplement to a student who is majoring in a profession affiliated with construction. This minor is particularly relevant to students majoring in business, insurance, management, manufacturing, and marketing.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
CON 121	Introduction to Construction	3
CON 201	Materials and Methods of Construction	3
CON 202	Materials and Methods of Construction II	3
CON 294	Construction Graphics	3
CON 325	Construction Estimating	4
CON 324	Mechanical/Electrical Systems	3
CON 421	Construction Contracts	3
<b>Total Hours</b>		<b>22</b>

No more than nine hours of courses taken for a major may be counted toward this minor.

## Engineering Technology Management, Bachelor of Science (B.S.) and Technology Management Master of Science (M.S.) [Manufacturing Concentration] Accelerated 3+2 Dual Degree Program

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.S. degree and M.S. degree within five calendar years because of the accelerated curriculum and because nine semester hours of graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required. Depending upon undergraduate progress at the time of 3+2 admission, some summer-school classes may be needed.

## Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements

CIP Code: 15.1501

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
SCO 100	Student Success Seminar (waived for transfers with 30+ hours)	1
	Writing Intensive Course (Hours incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hours distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT Engineering Technology Management majors fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)	
AEM 499	Senior Capstone Project	

### Major Requirements

<i>Core Courses</i>		
AEM 195	Computer Aided Drafting	3
AEM 202	Introduction to Quality	3
AEM 308	Methods of Lean Operations	3
AEM 310W	Technical Communication	3
AEM 332	Process Control and Auditing	3
AEM 349	Applied Learning in Industrial Technology	1
AEM 408	Human Resource Development	3
AEM 499	Senior Capstone Project	3
AEM 706	Six Sigma Quality	3
AEM 801	Economics for Lean Operations	3
AEM 804	Project Management	3
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	
TEC 161	Computer Applications in Technology	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		30
Manufacturing Technology		
<i>Supporting Course Requirements</i>		
Choose from one of the following:		
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
Choose from 0-3 hours of the following:		0-3
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ACC 200	Survey of Accounting	
Choose from 3-6 hours of the following:		3-6
MAT 120	Trigonometry (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus	
MAT 261		
Or choose six hours of higher-level MAT courses		
PHY 131	College Physics I (Element 4) <sup>G</sup>	
<i>Exit Requirements</i>		
Students must take an AEM assessment examination before graduation (CR only, no hours). An exam fee is required.		
AEM 467	Comprehensive Exam for BS in ETM	0
<i>Free Electives</i>		
Choose from 13 hours of free electives		13
<b>Total Hours</b>		<b>120-127</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of six hours can apply toward Element 4.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 201	Metallic Material Processes	3
AEM 301	Non-Metallic Material Processes	3
AEM 330	Material Testing and Metrology	3

AEM 352	Robotics and Automated Systems	3
AEM 371	Hydraulics and Pneumatics	3
AEM 390	3-D Parametric Solid Modeling	3
EET 251	Electricity and Electronics	3
<i>Technical Electives</i>		
Choose from nine hours of the following: (six hours must be upper division)		9
AEM 336	Reliability and Sampling	
AEM 382	Advanced Material Processing	
AEM 383	CAD/CAM Integration	
AEM 392	Computer Aided Machine Drawing	
AEM 395	Special topics in AEM:___	
AEM 397	Advanced Machine Drawing	
AEM 530	Design of Experiments	
or STA 585	Experimental Design	
CON 303	Statics and Strength of Materials	
EET 252	Digital Electronics	
EET 257	Electronic Devices and Circuits	
EET 351	Programmable Logic Controllers	
NET 303	LANs & PC Communications	
NET 440	Wired/Wireless Communications	
<b>Total Hours</b>		<b>30</b>

## Engineering Technology Management, Bachelor of Science (B.S.) and Technology Management Master of Science (M.S.) [Technology Concentration] Accelerated 3+2 Dual Degree Program

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.S. degree and M.S. degree within five calendar years because of the accelerated curriculum and because nine semester hours of graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required. Depending upon undergraduate progress at the time of 3+2 admission, some summer-school classes may be needed.

### Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements

CIP Code: 15.1501

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
SCO 100	Student Success Seminar (waived for transfers with 30+ hours)	1
	Writing Intensive Course (Hours incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hours distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT Engineering Technology Management majors fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
AEM 499	Senior Capstone Project	
<b>Major Requirements</b>		
<i>Core Courses</i>		
AEM 195	Computer Aided Drafting	3
AEM 202	Introduction to Quality	3
AEM 308	Methods of Lean Operations	3
AEM 310W	Technical Communication	3
AEM 332	Process Control and Auditing	3
AEM 349	Applied Learning in Industrial Technology	1
AEM 408	Human Resource Development	3
AEM 499	Senior Capstone Project	3
AEM 706	Six Sigma Quality	3
AEM 801	Economics for Lean Operations	3
AEM 804	Project Management	3

STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3-4
TEC 161	Computer Applications in Technology	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		30
	Manufacturing Technology	
<i>Supporting Course Requirements</i>		
Choose from one of the following:		
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
Choose from 0-3 hours of the following:		0-3
ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ACC 200	Survey of Accounting	
Choose from 3-6 hours of the following:		3-6
MAT 120	Trigonometry (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus	
MAT 261		
Or choose six hours of higher-level MAT courses		
PHY 131	College Physics I (Element 4) <sup>G</sup>	

### Exit Requirements

Students must take an AEM assessment examination before graduation (CR only, no hours). An exam fee is required.

AEM 467	Comprehensive Exam for BS in ETM	0
<i>Free Electives</i>		
Choose from 13 hours of free electives		13
<b>Total Hours</b>		<b>120-127</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of six hours can apply toward Element 4.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 30 hours of approved technical electives		30
<b>Total Hours</b>		<b>30</b>

## Engineering Technology Management, Bachelor of Science with a Concentration in Manufacturing (B.S.)

Graduates must have an overall GPA at or above 2.00, and 2.25 in the major with no major grade below a "C". Transfer students will be treated on an individual basis. The Engineering Technology Management program is accredited by the Association of Technology, Management, and Applied Engineering.

## Program Requirements

CIP Code: 15.1501

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hours)	1
Writing Intensive Course (Hours incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hours distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Engineering Technology Management majors fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
AEM 499	Senior Capstone Project	
<b>Major Requirements</b>		
<i>Core Courses</i>		
AEM 195	Computer Aided Drafting	3
AEM 202	Introduction to Quality	3
AEM 308	Methods of Lean Operations	3
AEM 310W	Technical Communication	3
AEM 332	Process Control and Auditing	3
AEM 349	Applied Learning in Industrial Technology	1
AEM 407	Fundamentals of Project Management	3
AEM 408	Human Resource Development	3
AEM 499	Senior Capstone Project	3
CON 420	Engineering Economy	3
STA 215	Introduction to Statistical Reasoning	3-4

or STA 270	Applied Statistics	
TEC 161	Computer Applications in Technology	3

<b>Concentrations</b>	
Students must select one of the following Concentrations:	33

Manufacturing
Technology

#### *Supporting Course Requirements*

Choose from one of the following:

CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	

Choose from 0-3 hours of the following: 0-3

ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ACC 200	Survey of Accounting	

Choose from 3-6 hours of the following: 3-6

MAT 120	Trigonometry (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus	
Or choose from six hours of higher-level MAT courses		
PHY 131	College Physics I (Element 4) <sup>G</sup>	

#### *Exit Requirements*

Students must take an AEM assessment examination before graduation (CR only, no hours). An exam fee is required.

AEM 467	Comprehensive Exam for BS in ETM	0
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#### *Free Electives*

Choose from 13 hours of free electives 13

<b>Total Hours</b>	<b>120-127</b>
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#### **G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of 6 hours can apply toward Element 4.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 201	Metallic Material Processes	3
AEM 301	Non-Metallic Material Processes	3
AEM 330	Material Testing and Metrology	3
AEM 352	Robotics and Automated Systems	3
AEM 371	Hydraulics and Pneumatics	3
AEM 390	3-D Parametric Solid Modeling	3
EET 251	Electricity and Electronics	3
<i>Technical Electives</i>		
Choose from 12 hours of the following. Note that 9 hours must be upper division: <sup>1</sup>		12
AEM 336	Reliability and Sampling	
AEM 382	Advanced Material Processing	
AEM 383	CAD/CAM Integration	
AEM 392	Computer Aided Machine Drawing	
AEM 397	Advanced Machine Drawing	
AEM 506	Six Sigma Quality	
AEM 530	Design of Experiments	

or STA 585	Experimental Design
CON 303	Statics and Strength of Materials
EET 252	Digital Electronics
EET 257	Electronic Devices and Circuits
EET 351	Programmable Logic Controllers
NET 303	LANs & PC Communications
NET 440	Wired/Wireless Communications

**Total Hours** **33**

1  
Transfer students with an associate degree in a technical related field may not need to take these 12 hours of electives if upper division requirement can be completed.

## Engineering Technology Management, Bachelor of Science with a Concentration in Technology (B.S.)

Graduates must have an overall GPA at or above 2.00, and 2.25 in the major with no major grade below a "C". Transfer students will be treated on an individual basis. The Engineering Technology Management program is accredited by the Association of Technology, Management, and Applied Engineering.

### Program Requirements

CIP Code: 15.1501

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hours)	1

Writing Intensive Course (Hours incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hours distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Engineering Technology Management majors fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

AEM 499	Senior Capstone Project	
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#### Major Requirements

<i>Core Courses</i>		
AEM 195	Computer Aided Drafting	3
AEM 202	Introduction to Quality	3
AEM 308	Methods of Lean Operations	3
AEM 310W	Technical Communication	3
AEM 332	Process Control and Auditing	3
AEM 349	Applied Learning in Industrial Technology	1
AEM 407	Fundamentals of Project Management	3
AEM 408	Human Resource Development	3
AEM 499	Senior Capstone Project	3
CON 420	Engineering Economy	3
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	
TEC 161	Computer Applications in Technology	3

#### Concentrations

Students must select one of the following Concentrations: **33**

Manufacturing
Technology

#### Supporting Course Requirements

Choose from one of the following:

CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	

Choose from 0-3 hours of the following: **0-3**

ECO 120	Economic Reasoning and Issues (Element 5B) <sup>G</sup>	
ECO 230	Fundamentals of Microeconomics (Element 5B) <sup>G</sup>	
ACC 200	Survey of Accounting	

Choose from 3-6 hours of the following: **3-6**

MAT 120	Trigonometry (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus	

Or choose from six hours of higher level MAT courses

PHY 131	College Physics I (Element 4) <sup>G</sup>	
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#### Exit Requirements

Students must take an AEM assessment examination before graduation (CR only, no hours). An exam fee is required.

AEM 467	Comprehensive Exam for BS in ETM	0
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*Free Electives*

Choose from 13 hours of free electives	13
<b>Total Hours</b>	<b>120-127</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of 6 hours can apply toward Element 4.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 33 hours of approved technical electives		33
<b>Total Hours</b>		<b>33</b>

Transfer students with an associate degree in a technical related field may not need to take these 12 hours of electives if upper division requirement can be completed.

## Engineering Technology Management, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
AEM 195	Computer Aided Drafting	3
AEM 201	Metallic Material Processes	3
AEM 202	Introduction to Quality <sup>1</sup>	3
AEM 308	Methods of Lean Operations	3
Choose from six hours of AEM upper division electives		6
<b>Total Hours</b>		<b>18</b>

**1**

MAT 112A Algebra: Polynomials and MAT 112B Algebra: Functions & Matrices or higher and STA 215 Introduction to Statistical Reasoning or STA 270 Applied Statistics are prerequisites for AEM 202 Introduction to Quality.

No more than nine hours of courses taken for a major may be counted toward this minor.

## Land Surveying, Minor

Designed to prepare students to take the Fundamentals of Land Surveying Examination (administered by the Kentucky State Board of Licensure for Professional Engineers & Land Surveyors) upon completion of the core curriculum in land surveying or during final year in a Baccalaureate Degree program if twelve (12) hours or more of the core curriculum in land surveying have been completed. This minor program includes all requirements of the core curriculum in land surveying.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
CON 221	Plane Surveying	3
CON 294	Construction Graphics	3
CON 320	Construction Surveying	3

CON 321	Boundary Surveying	3
GEO 353	Geographic Information Systems	3
GEO 453	Advanced GIS	3
GEO 455	GIS Cartography	3
<b>Total Hours</b>		<b>21</b>

Non-Construction Management majors must also take BUS 204 Fundamentals of Business Law and Ethics.

## Land Surveying, University Certificate

The curriculum for the Land Surveying Certificate is aimed at students who have, or are pursuing, a four-year degree in a program other than land surveying from a college or university of recognized standing. This certificate program includes all requirements of the Kentucky core curriculum in Land Surveying. Upon completion of this curriculum, students will receive a certificate permitting them to take the Kentucky Fundamentals of Land Surveying Examination.

### Program Requirements

CIP Code: 15.1102

Code	Title	Hours
<b>Certificate Requirements</b>		
CON 221	Plane Surveying	3
CON 294	Construction Graphics	3
CON 320	Construction Surveying	3
CON 321	Boundary Surveying	3
BUS 204	Fundamentals of Business Law and Ethics	3
GEO 353	Geographic Information Systems	3
GEO 453	Advanced GIS	3
GEO 455	GIS Cartography	3
<b>Total Hours</b>		<b>24</b>

## Quality Assurance Technology, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3-4
AEM 202	Introduction to Quality	3
AEM 332	Process Control and Auditing	3
AEM 336	Reliability and Sampling	3
AEM 506	Six Sigma Quality	3
AEM 530 or STA 585	Design of Experiments Experimental Design	3
<b>Total Hours</b>		<b>18-19</b>

No more than nine hours of courses taken for a major may be counted toward this minor.

# Technology, Associate of Applied Science (A.A.S.)

The AAS degree program in Technology is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

## Program Requirements

CIP Code: 15.0612

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		
Element 1A		3
Element 1B		3
Element 1C		3
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2)	3
Element 3A or 3B		3
ECO 120 or ECO 230	Economic Reasoning and Issues (Element 5B) Fundamentals of Microeconomics	3
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
<b>Major Requirements</b>		
<i>Concentrations</i>		
Students must select one of the following Concentrations:		40-41
Applied Engineering (AE)		
Computer Electronics (CE)		
<i>Free Electives</i>		
Choose from 0-1 hour of electives		0-1
<i>Exit Requirements</i>		
Students must take an assessment examination before graduation. An exam fee is required.		
Choose from one of the following:		
AEM 367	Comp Exam for AAS in Technology, Applied Engineering	
AEM 467	Comprehensive Exam for BS in ETM (AE)	
NET 367A	Exit Exam for AAS in Tech, with Computer Electronics (CE) (CR only, no hours)	
<b>Total Hours</b>		<b>59-61</b>

## Concentration

### Applied Engineering (AE)

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 195	Computer Aided Drafting (Applied Engineering (AE))	3
AEM 201	Metallic Material Processes	3
AEM 202	Introduction to Quality	3
AEM 301 or AEM 392	Non-Metallic Material Processes Computer Aided Machine Drawing	3
AEM 308	Methods of Lean Operations	3
AEM 330	Material Testing and Metrology	3

AEM 332	Process Control and Auditing	3
Choose from one of the following:		3
AEM 336	Reliability and Sampling	
AEM 352	Robotics and Automated Systems	
AEM 383	CAD/CAM Integration	
AEM 371 or AEM 390	Hydraulics and Pneumatics 3-D Parametric Solid Modeling	3
EET 251	Electricity and Electronics	3
Choose from one of the following:		4-5
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I	
PHY 131	College Physics I	
MAT 120	Trigonometry	3
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3-4

**Total Hours** 40-42

### Computer Electronics

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from one of the following:		3
AEM 352	Robotics and Automated Systems	
EET 253	Microprocessor Control Systems	
EET 351	Programmable Logic Controllers	
Choose from one of the following:		3
CSC 160	Introduction to Web Programming (or higher)	
CIS 215	Introduction to Business Programming (or higher)	
EET 251	Electricity and Electronics	3
EET 252	Digital Electronics	3
EET 257	Electronic Devices and Circuits	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 343	Network Switches & Routers	3
NET 349	Applied Learning in NET	1
NET 354	Microcomputer & Network Security	3
NET 395 or NET 403	Special Topics in NET Advanced LANs and PC Communication	3
NET 399 or NET 499	Associate Degree Capstone Senior Capstone	3
PHY 101	Conceptual Physics (or higher) (Element 4) <sup>G</sup>	3
TEC 161	Computer Applications in Technology	3

**Total Hours** 40

### G

Course satisfies a General Education element.

## Unmanned Aircraft Systems, Minor Program Requirements

A student may minor in aerospace management by completing a minimum of 18 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
AVN 105	UAS Safety and Regulations	3
AVN 150	Introduction to Aviation	3
AVN 170	Introduction to Unmanned Aircraft Systems	3
AVN 290	UAS Flight Operations	3
GEO 110	Environmental Geography	3
or GEO 210	Introduction to Physical Geography	
GEO 353	Geographic Information Systems	3
<b>Total Hours</b>		<b>18</b>

## Department of Biological Sciences

### Chair

Dr. Sherry Harrel  
(859) 622-1531  
Science Building 3238

### Faculty

K. Blank, A. Braccia, D. Brown, P. Calie, S. Chambers, L. Cormier, B. Davis, L. Dodd, R. Drolia, C. Elliott, S. Harrel, D. Hayes, J. Koslow, L. Middleton, C. Mott, O. Oakley, V. Peters, M. Pierce, S. Richter, W. Staddon, S. Sumithran, A. Whitson, and A. Wigginton.

### Bachelor's

- Biology, Bachelor of Science with a Concentration in Aquatic Biology (B.S.) (p. 474)
- Biology, Bachelor of Science with a Concentration in Biodiversity and Conservation (B.S.) (p. 476)
- Biology, Bachelor of Science with a Concentration in Biology Teaching (B.S.) (p. 477)
- Biology, Bachelor of Science with a Concentration in General Biology (B.S.) (p. 478)
- Biomedical Sciences, Bachelor of Science with a Concentration in Biomedical Research (B.S.) (p. 480)
- Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Dental (B.S.) (p. 481)
- Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Medical (B.S.) (p. 483)
- Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Optometry (B.S.) (p. 484)
- Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Physician Associate (B.S.) (p. 486)
- Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Veterinary (B.S.) (p. 488)
- Wildlife Management, Bachelor of Science with a Concentration in Conservation Management (B.S.) (p. 489)
- Wildlife Management, Bachelor of Science with a Concentration in Game Management (B.S.) (p. 490)

### Minor

- Biology, Minor (p. 479)

## Courses

### Biology

#### BIO 100. Introductory Biology. (3 Credits)

I, II. Prerequisite: Completion of all academic readiness requirements in English and reading or ENG101R; and MAT ACT score of 19 or higher, or Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher, or STA 215 or higher. The course will deal with introductory principles of biology that are fundamental to an individual's knowledge as it pertains to the interrelationships of organisms in the natural world. Topics to be addressed: cellular basis of life, metabolism, genetics, biological diversity, reproduction, evolution, ecology, and environmental biology. May not be used to satisfy area, major, or minor requirements. Credit will not be awarded to students who have credit for BIO 101 or 102. 2 Lec/2 Lab. Gen. Ed. E-4 [NS].

#### BIO 101. Essentials of Biology. (3 Credits)

I, II. ONLINE ONLY. Prerequisite: Completion of all academic readiness requirements in English and reading or ENG 101R; and Math ACT score of 19 or higher, or Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher, or STA 215 or higher. Biological principles and applications as relates to life on earth from the molecular to ecosphere scale; current topics in genetics, evolution, ecology, plant and animal diversity, and human biology will be discussed. May not be used to satisfy area, major, or minor requirements. Credit will not be awarded to students who have credit for BIO 100 or 102. 2 Lec/2 Lab. Gen. Ed. E-4 [NS].

#### BIO 102. Inquiry Biology for Teachers. (3 Credits)

I, II. Prerequisites: completion of all academic readiness requirements in English and reading or ENG 101R; and Math ACT score of 19 or higher, Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher; pre-teaching or teaching elementary, and middle school, special education, and DHH majors only, or departmental approval. An inquiry-based, conceptual-approach biological sciences course for teaching majors. Topics include the nature of science, cell biology, biodiversity, inheritance, ecology and ecosystems, evolution and adaptation. May not be used to satisfy area, major, or minor requirements. Credit will not be awarded to students who have credit for BIO 100 or 101. 2 Lec/2 Lab. Gen. Ed. E-4 [NS].

#### BIO 111. Cell and Molecular Biology. (4 Credits)

I, II. Prerequisite: Completion of all academic readiness requirements in English and reading or ENG 101R; and Math ACT score of 19 or higher, or Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher, or STA 215 or higher. An introduction to fundamental principles of cell and molecular biology as they apply to plants, animals, and microbes; the molecular basis of life, cellular structure and function, genetic and molecular biology. Designed for biology majors. 3 Lec/2 Lab. Gen. Ed. E-4 [NS].

#### BIO 112. Ecology and Evolution. (4 Credits)

I, II. Prerequisite: Completion of all academic readiness requirements in English and reading or ENG 101R; and Math ACT score of 19 or higher, or Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher, or STA 215 or higher. An introduction to the fundamental principles of ecology and evolution: interactions among plants, animals, microbes, and their environment, and the diversification of life through evolutionary processes. Designed for biology majors. 3 Lec/2 Lab. Gen. Ed. E-4 [NS].

**BIO 215. Insects and Society. (3 Credits)**

A. Prerequisites: ENG 102 or 105(B) or HON 102. An introduction to insects and their influence on human society. Impacts of insects on our food supply, homes and health, as well as the influence of insects on culture, world history, and the long-term maintenance of the earth's critical support systems. May not be used to satisfy biology major or minor requirements. Gen. Ed. VII.

**BIO 271. Advanced Human Anatomy. (3 Credits)**

II. Prerequisites: BIO 171 (grade of C or better) or 308 (grade of C or better). An advanced study of human anatomy. Emphasis is placed on the musculoskeletal and nervous systems and their anatomical and functional relationships. May not be used to satisfy area, major, or minor requirements. 2 Lec/2 Lab.

**BIO 273. Clinical Microbiology. (4 Credits)**

Prerequisite: BIO 171 (grade of C or better) or 307 (grade of C or better). A study of microorganisms as causative agents in diseases of humans with emphasis on differentiation and culture, types of diseases, modes of transmission, prophylactic, therapeutic and epidemiological considerations. May not be used to satisfy area, major, or minor requirements. Credit will not be awarded to students who have credit for MLS 209. 2 Lec/4 Lab. Gen. Ed. VII (NS).

**BIO 300. Economic Plants. (3 Credits)**

I, II. Economic consideration of plants as sources of food, medicine, and other products; the origin, domestication, general anatomy and culture of plants; deleterious plants; aspects of aesthetics and effect on society and world events. May not be used to satisfy area, major, or minor requirements, except the biology (teaching) major and minor.

**BIO 305. Biology of Sex. (3 Credits)**

I, II. Prerequisite: ENG 102, 105 (B), HON 102, or departmental approval. Crosslisted as WGS 311. Fundamental principles related to human sexual reproduction. Structure, function, control, and coordination of the human reproductive system. Problems associated with fertility, sexuality, birth control, STD's, and human population will be discussed. Fulfills University Wellness Requirement. May not be used to satisfy area, major or minor requirements. Credit will not be awarded to students who have credit for WGS 311.

**BIO 307. Human Anatomy and Physiology I. (3 Credits)**

I, II. Prerequisite: Completion of academic readiness requirements in English and reading or ENG 101R; ACT math of 19 or higher (SAT math 500) or passing score on math placement test or MAT 105 or higher or STA 215 or higher; ACT composite of 20 or higher (SAT1040) or completion of BIO 100 (grade of C or better) or BIO 101 (grade of C or better) or 111 (grade of C or better). Basic chemistry and the interrelationship of structure and function of body systems including cell structure, cell physiology, metabolism, tissues, and integumentary, skeletal, muscular, sensory and nervous systems. 2 Lec./2 lab. Credit will not be awarded for both BIO 171 and BIO 307.

**BIO 308. Human Anatomy and Physiology II. (3 Credits)**

I, II Prerequisite: BIO 307 (grade of C or better) or BIO 171 (C or better) or major in pre-medical lab science or EHS. The interrelationship of structure and function of body systems including endocrine, cardiovascular, circulatory, respiratory, digestive, urinary, reproductive, lymphatic and immune systems. Lecture 2 hours, Laboratory 2 hours. Credit will not be awarded for both BIO 308 and BIO 301, 378.

**BIO 310. Biology of Aging. (3 Credits)**

A. Prerequisite: BIO 100, 171, or 308 (with a grade of C or better) or departmental approval. System by system approach to the biological effects of the aging process on the human body. May not be used to satisfy area, major, or minor requirements in the Department of Biological Sciences. Gen. Ed. VI. Fulfills University Wellness Requirement.

**BIO 315. Genetics. (4 Credits)**

I, II. Prerequisite: BIO 111 (with a grade of C or better) and 112 (with a grade of C or better). Discussion of Mendelian genetics, molecular genetics, genetic mapping, and population genetics. Emphasis on critical thinking skills and logic through experimental analysis. Laboratory will include experimental manipulation of prokaryotic and eukaryotic organisms. 3 Lec/3 Lab.

**BIO 316. Ecology. (4 Credits)**

I, II. Prerequisite: BIO 111 (grade of C or better) and BIO 112 (with a grade of C or better). Basic concepts and principles as applied to the study of organisms or groups of organisms in their interrelations to each other and to their environments. 2 Lec/4 Lab.

**BIO 317. Conserv of Wildlife Resources. (3 Credits)**

I, II. Introduction to the principles and practices of conservation of plants and animals; requirements and values of wildlife resources; impact of human activities on resources. May not be used to satisfy area, major, or minor requirements. Gen. Ed. VII (NS).

**BIO 318. General Botany. (4 Credits)**

I,II. Prerequisite: BIO 111 (with a grade of C or better) and 112 (with a grade of C or better). Structure and functions of vascular plants; morphology, classification, life histories, ecology and evolution of autotrophs, plantlike protists and fungi. 3 Lec/3 Lab. Credit will not be awarded to students who have credit for BIO 131.

**BIO 319. General Zoology. (4 Credits)**

I,II. Prerequisite: BIO 111 (with a grade of C or better) and 112 (with a grade of C or better). Morphology, physiology, comparative anatomy, development, life history, evolution, and diversity of animals. 3 Lec/3 Lab. Credit will not be awarded to students who have credit for BIO 141.

**BIO 320. Principles of Microbiology. (4 Credits)**

I, II. Prerequisite: BIO 111, BIO 112, and CHE 112 (with a grade of C or better) or Environmental Health Science major with BIO 111 (C) and CHE 112 (C). A study of bacteria and other microorganisms, their morphology, development and function; techniques of isolation, cultivation and identification; physiology, nutrition, and genetics; role of microbes in medicine, agriculture, and industry. 2 Lec/4 Lab.

**BIO 331. Cell Biology. (3 Credits)**

I, II. Prerequisite: Junior or senior standing in Biology, Biomedical Sciences, Wildlife Management or Chemistry, Animal & Veterinary Sciences, or Forensic Science, or departmental approval. An examination of cellular structure and function. Emphasis will be placed on macromolecule biosynthesis, gene expression, membrane dynamics, cytoskeletal function, intracellular signaling, cascades, protein trafficking, and intercellular interactions. Molecular research methods and their applications will also be discussed.

**BIO 332. Careers in Biomedical Sciences. (1 Credit)**

Prerequisites: BIO 111 (C or better) and CHE 112 (C or better). Students will explore the diverse range of career options within the biomedical sciences, develop materials and skills for successful admission in graduate/professional programs. This course requires 50 hours of experiential learning through an internship/shadowing experience. 1 Lec.

**BIO 335. Plant Systematics. (3 Credits)**

II. Prerequisite: BIO 111 (grade of C or better), 112 (grade of C or better), and 318 (grade of C or better); or departmental approval. Identification, classification and phylogeny of vascular plants; principles of taxonomy. 1 Lec/4 Lab.

**BIO 342. Comparative Vertebrate Anatomy. (4 Credits)**

I. Prerequisite: BIO 112 (grade of C or better), and 319 (grade of C or better); or departmental approval. Evolutionary relationships of the classes of vertebrates are investigated through their anatomy. Laboratory studies of organs and systems of vertebrate animals primarily compare the dogfish shark, the mudpuppy (*Necturus*), and the cat. 2 Lec/4 Lab.

**BIO 348. Vertebrate Physiology. (3 Credits)**

(3) I, II. Prerequisite: BIO 331 (C or better); CHE 112 (C or better), and PHY 131 (C or better) or PHY 201 (C or better) or departmental approval. Command of human physiology through an integrated study of the physical, chemical, and cellular aspects of physiological systems across vertebrates. Group work and critical thinking will be stressed utilizing human case studies and computer simulations. 3 Lec.

**BIO 349. Applied Learning in Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349A. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349B. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349C. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349D. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349E. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349F. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349G. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349H. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349I. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349J. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349K. Co-op or Appl. Lrn: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349L. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349M. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349N. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 371. Neuroanatomy. (3 Credits)**

I, II. Prerequisite: BIO 171 or 308 (grade of "C" or better) or departmental approval. Anatomy of the nervous system and the relationships to functions of systems of the human body. May not be used to satisfy area, major, or minor requirements in the Department of Biological Sciences. 2 Lec/2 Lab.

**BIO 375W. Microbes and Food. (3 Credits)**

(3) A. Prerequisites: ENG 102 or 105 (B) or HON 102 and BIO 111 (grade of C or better) or departmental approval. An overview of food-borne illness and food safety, the role of microbes in food production and the relationships between diet and the human microbiome.

**BIO 380. Wildlife Law & Law Enforcement. (3 Credits)**

A. Discussion of pertinent state and federal wildlife laws and how law enforcement impacts wildlife management.

**BIO 381. Principles of Wildlife Mgt. (3 Credits)**

I. Basic principles of wildlife management and their application to current management issues.

**BIO 382. Wildlife Population Analysis. (4 Credits)**

I. Population ecology of vertebrates, with a focus on field methods and analysis of data applicable to wildlife conservation. Recommend BIO 316 and 381 prior to or concurrent with enrollment. 2 Lec/4 Lab.

**BIO 382W. Wildlife Population Analysis. (4 Credits)**

I. Prerequisites: ENG 102 or ENG 105 (B) or HON 102, and Wildlife Management major or department approval. Population ecology of vertebrates, with a focus on field methods, analysis of data, and writing techniques applicable to wildlife conservation. Recommend BIO 316 and 381 prior to or concurrent with enrollment. Credit will not be awarded for both BIO 382 and 382W. 2 Lec/4 Lab.

**BIO 399. Trends in Biological Science. (1-4 Credits)**

A. Prerequisite: instructor approval. A presentation of selected topics in the biological sciences reflective of new developments and current trends in scientific advancement. May be retaken to a maximum of six hours. Gen. Ed. 15 or 16.

**BIO 489. Field Studies in Wildlife. (1-3 Credits)**

A. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. Field studies designed to enhance the student's wildlife management techniques. Required of all wildlife management majors during the junior or senior year. May be retaken to a maximum of three hours.

**BIO 490. Biology Seminar. (1 Credit)**

I, II. Prerequisite: junior or senior standing in biology. Students and members of the faculty meet to present, discuss, and exchange ideas on selected topics, based on the scientific literature for the biological sciences.

**BIO 495. Evolutionary Application and Theory. (1 Credit)**

I, II. Prerequisite: Senior standing in Biology, Biomedical Sciences, or Wildlife Management. Discussion of topics relating to evolutionary theory with special emphasis on the impact of evolution in everyday life. This is a course that builds upon evolutionary concepts learned throughout the biology curriculum. 2 Lab.

**BIO 500. Environmental Issues. (3 Credits)**

(3) II. Prerequisite: BIO 100, 102, or 112. Students will learn to identify, investigate, and evaluate environmental issues as well as plan appropriate action based on their analysis. Credit will not be awarded to students who have credit for ENV 500, CNM 800, and BIO 700.

**BIO 511. Experiment Appro/Molecular Bio. (3 Credits)**

I. Prerequisite: BIO 111. Laboratory experience-based course in molecular biology techniques. Subject will be introduced in a lecture setting and practical laboratory training. Techniques will include PCR-based methodologies; immunological approaches; basic protein and nucleic acid manipulations. 1 Lec/4 Lab.

**BIO 514. Evolution. (3 Credits)**

A. Prerequisite: BIO 315 (grade of C or better) or departmental approval. A study of Darwinism, the history of life in the context of contemporary biology, and the evidences and mechanisms of evolutionary change, with particular emphasis on human evolution and the challenges of teaching and understanding evolution in modern society.

**BIO 520. Invasive Species Management. (3 Credits)**

A. Prerequisites: BIO 316 (C or better) or department approval. Examination of the circumstances that allow introduced species to become invasive. Reviews the current approaches used to reduce the incidence and impact of invasive species. Credit will not be awarded to students who have credit for BIO 599/799 Special Topics: Invasive Species Management.

**BIO 521. Plant Ecology. (4 Credits)**

A. Prerequisite: BIO 316 (grade of C or better) and BIO 318 (grade of C or better) or 335 (grade of C or better) or departmental approval. Ecological concepts and principles relevant to eastern terrestrial ecosystems. Required Fall Break field trip. 2 Lec/4 Lab.

**BIO 522. Grasses and Grasslands. (3 Credits)**

I. Prerequisite: instructor approval. Development and composition of grasslands; phylogeny, classification, and identification of grasses. Emphasis on North American grasses and grasslands with field trips to native and managed grasslands. 1 Lec/4 Lab.

**BIO 525. Aquatic and Wetland Plants. (3 Credits)**

A. Prerequisite: BIO 111 (C or higher), 112 (C or higher), and 318 (C or higher); or departmental approval. Collection, systematics, distribution, ecology, and reproduction of aquatic and wetland vascular plants. 1 Lec/4 Lab.

**BIO 527. Immunology. (3 Credits)**

I. Prerequisite: BIO 320 (grade of C or better) and CHE 361 (grade of C or better); or instructor departmental approval. Characteristics of immune reactions at the molecular level and in vivo. Nature and interactions of antigens and antibodies, and allergic phenomena. 2 Lec/3 Lab.

**BIO 528. Virology. (3 Credits)**

A. Prerequisite: BIO 320 (grade of C or better); or departmental approval. Fundamentals of classification, structure, and pathogenesis of viruses. Host-virus interactions and their applications to medicine and industry. Viral related areas of immunology, cell culture procedures, and applications will be introduced. 2 Lec/3 Lab.

**BIO 529. Microbiology in Everyday Life. (3 Credits)**

A. Prerequisite: BIO 100 (grade of C or better), or 102 (grade of C or better), or 111 (grade of C or better), or 112 (grade of C or better), or departmental approval. Microbes in medicine, agriculture, and industry; emphasis on teaching microbiology in the classroom. Course open only to Biology-Teaching or Education majors.

**BIO 531. Principles of Molecular Biology. (4 Credits)**

I, II. Prerequisites: BIO 320 (grade of C or better) or 331 (grade of C or better), and CHE 361 (grade of C or better); or departmental approval. An in-depth study of the structure, function, and technological applications of nucleic acids and proteins. Laboratory experiences will involve manipulations of DNA and RNA molecules for the purpose of isolation, genetic engineering, forensics, and gene expression analysis. Credit will not be awarded for both BIO 531 and BIO 531S 2 Lec/4 Lab.

**BIO 531S. Principles of Molecular Biology. (4 Credits)**

I, II. Prerequisite: BIO 320 (grade of C or better) or 331 (grade of C or better) and CHE 361 (grade of C or better); or departmental approval. An in-depth study of the structure, function, and technological applications of nucleic acids and proteins. Laboratory experiences will involve manipulations of DNA and RNA molecules for the purpose of isolation, genetic engineering, forensics, and gene expression analysis. Credit will not be awarded for both BIO 531S and BIO 531 2 Lec/4 Lab.

**BIO 532. Conservation Biology. (3 Credits)**

II. Prerequisite: BIO 316 (grade of C or better) or departmental approval. Examination of principles and practices of conserving global biological diversity. Emphasis on causes, consequences and rates of extinction, as well as the natural resource planning and policies used to mitigate the loss of biodiversity. Focus will be given to the application of philosophical, biological, sociological, legal, and on-the-ground management principles for the conservation of genes, species and ecosystems.

**BIO 533. Bioinformatics: Principles and Applications. (3 Credits)**

A. Prerequisite: BIO 315 (grade of C or better); or departmental approval. An exposure to the theory and practice of bioinformatics, as they relate to laboratory (Cell and Molecular Biology, Biochemistry) and field (Evolutionary and Population Biology) research applications in the life sciences. Discussion and utilization of the prevalent approaches and methodologies currently used in Bioinformatics.

**BIO 535. Pathogenic Microbiology. (4 Credits)**

A. Prerequisite: BIO 320 (grade of C or better); or departmental approval. Studies in the field of advanced clinical microbiology with emphasis on morphology, cultivation, biochemistry, and serological identification of bacterial diseases; aspects of pathogenesis, epidemiology, and control measures of bacterial and mycotic diseases. 2 Lec/4 Lab.

**BIO 536. Dendrology. (3 Credits)**

A. Prerequisite: BIO 318 (grade of C or better); or departmental approval. Woody plant taxonomy with emphasis on field identification of trees and shrubs in summer and winter conditions; habitats and distributions; economic importance; forest regions of North America. 1 Lec/4 Lab.

**BIO 542. Freshwater Invertebrates. (3 Credits)**

A. Prerequisite: BIO 112 (grade of C or better) and 319 (grade of C or better) or departmental approval. Collection, systematics, distribution, behavior, ecology, and life histories of freshwater invertebrates. 2 Lec/3 Lab.

**BIO 546. Histology. (4 Credits)**

II. Prerequisite: BIO 331 (grade of C or better) and 348 (grade of C or better); or departmental approval. This course will provide students with an essential understanding of functional morphology in vertebrate tissues and organs. Pathology examples will be used to explain cellular and molecular basis of normal function related to structure.

**BIO 547. Comparative Vertebrate Embryology. (4 Credits)**

A. Prerequisite: BIO 331 (grade of C or better) or departmental approval. Gametogenesis, fertilization, morphogenesis, and organogenesis of the frog, bird, and mammal. Particular emphasis is placed on mammalian development. 2 Lec/4 Lab.

**BIO 548. Insect Diversity. (3 Credits)**

A. Prerequisite: BIO 319 (C or better) or departmental approval. An introduction to the insects with an emphasis on classification, identification, natural history, and evolution of insect orders and common families. (2 Lac/3 Lab) Credit will not be awarded for both BIO 548 and BIO 599: Topics in Biological Sciences.

**BIO 549. Neurobiology. (3 Credits)**

I. Prerequisites: BIO 331. A discussion of the cellular architecture of the nervous system, with emphasis on the biochemical and electrophysiological properties of neurons and glia that control cognition, learning and memory, emotion, sensation and perception, endocrine regulation, and neurological illness. An overview of molecular research methods used to investigate neural function.

**BIO 550. Animal Behavior. (4 Credits)**

II. Prerequisite: BIO 111 (grade of C or better) and 112 (grade of C or better); or departmental approval. Advanced study of behavior with emphasis on inherited behavioral patterns in relation to the evolution and ecology of animals. 3 Lec/2 Lab.

**BIO 553. Mammalogy. (3 Credits)**

I. Prerequisites: BIO 111 (grade of C or better) and 112 (grade of C or better); or departmental approval. Classification, natural history, field methods, and distribution of mammals. Requires participation in an extended field trip outside of normal class hours. 1 Lec/4 Lab.

**BIO 554. Ornithology. (3 Credits)**

II. Prerequisite: BIO 111 (grade of C or better) and 112 (grade of C or better); or departmental approval. Avian biology with emphasis on field identification of local avifauna, anatomy, physiology, ecology, evolution, migration, economic importance, distribution, and behavioral patterns. Early morning field trips required. 2 Lec/4 Lab.

**BIO 555. Behavioral Ecology. (3 Credits)**

A. Prerequisite: BIO 316 (grade of C or better); or instructor approval. How behavior is influenced by natural selection in relation to ecological conditions. Emphasis on quantitative and experimental methods and on integrating theoretical ideas with field and laboratory evidence.

**BIO 556. Herpetology. (3 Credits)**

II. Prerequisite: BIO 319 (grade of C or better) or departmental approval. Natural history of the amphibians and reptiles including taxonomy, general ecology, behavior, distribution, breeding, and food habits. 2 Lec/3 Lab.

**BIO 557. Ichthyology. (3 Credits)**

I. Prerequisite: BIO 112 (grade of C or better) and 319 (grade of C or better) or departmental approval. A phylogenetic examination of morphological, ecological, and behavioral diversification of fishes of the world, with special attention to the Appalachian fauna. Laboratory devoted to anatomy, identification, and reproductive strategies. 2 Lec/4 Lab.

**BIO 558. Freshwater Ecology. (3 Credits)**

A. Prerequisite: BIO 316 (grade of C or better) or departmental approval. Ecology of lakes and streams with special reference to physical, chemical, and biological factors. To include a variety of methods and instruments. 2 Lec/3 Lab.

**BIO 561. Fisheries Biology. (3 Credits)**

A. Prerequisite: BIO 112 (grade of C or better) and 316 (grade of C or better); or departmental approval. Methods for assessment and analysis of fish populations and aquatic habitats, including age and growth, fecundity, food habits, and yield. Emphasis on economic and ecological importance of management decisions. 2 Lec/4 Lab.

**BIO 590. Ecology for Teachers. (3 Credits)**

(3) I. Cross-Listed as ENV 590, Prerequisite: BIO 100 (grade of C or better), 102 (grade of C or better), or 112 (grade of C or better). This course introduces ecology and the environment through an interdisciplinary approach beginning with the physical environment progressing to whole ecosystems and onto analyses of ecological sustainability. Classroom strategies and techniques will be modeled. Credit will not be awarded to students who have credit for ENV 590 or CNM 599.

**BIO 595. Topics in Field Biology.\_\_\_\_. (3 Credits)**

A. Prerequisite: BIO 318 (grade of C or better) or 319 (grade of C or better); and departmental approval. Concepts, methods, analyses, and organismal identification used to study \_\_\_\_\_. Material will be taught using a combinations of lecture, discussion, and experiential learning via hands-on field activities. May be repeated up to a maximum of 12 hours provided subject matter is different each time. 1 Lec/4 Lab.

**BIO 598. Special Problems. (1-3 Credits)**

I, II. Prerequisites: junior or senior standing; students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. Independent research in the biological sciences, under the guidance of a faculty member, which allows students to design a research problem and make experimental observations and conclusions. May be retaken to a maximum of six hours.

**BIO 599. Topics in Biological Sciences:\_\_\_\_. (6 Credits)**

A. Prerequisites: Senior Standing, BIO 111 (grade of C or better), 112 (grade of C or better) and departmental approval. Special topics in the biological sciences of current interest to faculty and students may be presented through lecture, discussion, lab and field experiences, and reports. May be retaken to a maximum of nineteen hours, provided subject matter differs each time.

**Wildlife Management****WLD 317. Conservation of Wildlife Resources. (3 Credits)**

(3) I, II. Prerequisites: ENG 102 or 102R or ENG 105 (B) or HON 102. Introduction to the principles and practices of conservation of plants and animals; requirements and values of wildlife resources; impact of human activities on resources. May not be used to satisfy BIO or WLD area, major, or minor requirements. Credit will not be awarded to students who have credit for ENV 317.

**WLD 380. Wildlife Law & Law Enforcement. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. Discussion of pertinent state and federal wildlife laws and how law enforcement impacts wildlife management. Credit will not be awarded for both WLD 380 and BIO 380.

**WLD 381. Principles of Wildlife Management. (3 Credits)**

I. Prerequisite or Corequisite: BIO 112 (grade of C or better) or departmental approval. Principles of wildlife management and their application to current management issues.

**WLD 382. Wildlife Population Analysis. (4 Credits)**

I. Prerequisites: BIO 316 (grade of C or better), STA 215 or STA 270 (grade of C or better), and Wildlife Management major; or departmental approval. Quantitative population ecology of vertebrates, with a focus on sampling and analysis of field data applicable to wildlife conservation. Credit will not be awarded for both WLD 382 and WLD 382W. 2 Lec/4 Lab.

**WLD 489W. Wildlife Research and Writing. (3 Credits)**

I, II. Prerequisites: WLD 382 (grade of C or better); STA 215 or 270 (grade of C or better); junior or senior status; ENG 102 or ENG 105(B) or HON 102; and Wildlife Management major. Students will design and execute a research project or management plan. Emphasis placed on (a) writing a project proposal and (b) writing a final report. Credit will not be awarded to students who have credit for WLD 489.

**WLD 583. Game Species Management. (3 Credits)**

A. Prerequisite or corequisite: WLD 381 (C or better) or departmental approval. Biology and ecology of the major game species found in North America with emphasis on current management practices and problems. Credit will not be awarded to students who have credit for BIO 599/799 Special Topics: Game Species Management.

**WLD 584. Upland Wildlife Management. (4 Credits)**

A. Prerequisite: WLD 381 (with grade of C or better) or departmental approval. Ecological principles and management strategies to preserve and enhance forest and grassland wildlife and their habitats. 2 Lec/2 Lab.

**WLD 585. Wildlife Resource Policy and Administration. (3 Credits)**

II. Prerequisite: WLD 381 (grade of C or better) or Departmental approval. Discussion of state, regional, national, and international policies and agencies which impact management of wildlife resources; with emphasis on North America.

**WLD 586. Wetland Wildlife Management. (4 Credits)**

II. Prerequisites: BIO 316 (grade of C or better) and WLD 381 (grade of C or better) or Departmental approval. Ecology and management of migratory and resident wetland wildlife populations and their habitats, with a focus on waterfowl. 2 Lec/4 Lab.

**WLD 587. Urban Wildlife Management. (3 Credits)**

A. Formerly BIO 587. Prerequisites or Corequisites: BIO 316 (with grade of C or better) and WLD 381 (with grade of C or better); or departmental approval. The strategies employed to manage urban wildlife and prevent/control animal damage in North America will be discussed. Credit will not be awarded to students who have credit for BIO 587.

**WLD 588. Fire Ecology and Management. (1 Credit)**

(1) I. Prerequisite: ENG 101 or departmental approval. Course addressing fire behavior and skills related to fire prescription, wildfire suppression, and the role of fire in wildlife management. 2Lec/lab.

**WLD 599. Topics in Wildlife Management. (1-6 Credits)**

A. Prerequisites: Sr. Standing; BIO 316 (C or better), WLD 381 (C or better) and departmental approval. Special topics in wildlife management of current interest to faculty and students will be presented through lecture, discussion, and reports. May be retaken to a maximum of 6 hours, provided the subject matter differs each time.

## Biology, Bachelor of Science with a Concentration in Aquatic Biology (B.S.)

### Program Requirements

CIP Code: 26.0101

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT - Biology majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)	
Choose from one of the following:		
BIO 320	Principles of Microbiology	
BIO 349	Applied Learning in Biology	
BIO 598	Special Problems	
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)	
	A program-approved leadership experience	
	A program-approved study abroad experience	

### Major Requirements

<i>Core Courses</i>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 316	Ecology	4
BIO 318	General Botany	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 495	Evolutionary Application and Theory	1

### Concentrations

Students must select at least one of the following Concentrations:	
Courses used for one concentration may not count toward another concentration.	
<b>Aquatic Biology</b>	<b>26-27</b>
Biodiversity and Conservation	
General Biology	
Biology Teaching	
<i>Supporting Course Requirements</i>	
Choose from 14-26 hours of supporting courses	
14-16 hours of Aquatic Biology and General Biology	
20-23 hours of Biodiversity and Conservation	
21-26 hours of Biology Teaching (must also complete all Professional Education Requirements)	
<i>Free Electives</i>	
Choose from 28 hours of free electives	28
<b>Total Hours</b>	<b>120-121</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 525	Aquatic and Wetland Plants	3
BIO 542	Freshwater Invertebrates	3
BIO 557	Ichthyology	3
BIO 558	Freshwater Ecology	3
	Choose from one of the following:	3
BIO 556	Herpetology	
BIO 561	Fisheries Biology	
GLY 315	Hydrology	
<i>Supporting Course Requirements</i>		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
MAT 234 or MAT 211	Calculus I (Element 2) <sup>G</sup> or Applied Calculus	
PHY 131 or PHY 201	College Physics I (Element 4) <sup>G</sup> or University Physics I	
STA 215 or STA 270	Introduction to Statistical Reasoning or Applied Statistics	3-4
<b>Total Hours</b>		<b>26-27</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

# Biology, Bachelor of Science with a Concentration in Biodiversity and Conservation (B.S.)

## Program Requirements

CIP Code: 26.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Biology majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
BIO 320	Principles of Microbiology	
BIO 349	Applied Learning in Biology	
BIO 598	Special Problems	
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)	
A program-approved leadership experience		
A program-approved study abroad experience		

### Major Requirements

#### Core Courses

BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 316	Ecology	4
BIO 318	General Botany	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 495	Evolutionary Application and Theory	1

#### Concentrations

Students must select at least one of the following Concentrations:

Courses used for one concentration may not count toward another concentration.

Aquatic Biology	
Biodiversity and Conservation	36-37
General Biology	
Biology Teaching	

#### Supporting Course Requirements

Choose from 14-26 hours of supporting courses

14-16 hours of Aquatic Biology and General Biology	
20-23 hours of Biodiversity and Conservation	
21-26 hours of Biology Teaching (must also complete all Professional Education Requirements)	

#### Free Electives

Choose from 18-28 hours of free electives 18-28

**Total Hours 120-131**

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 514	Evolution	3
BIO 532	Conservation Biology	3
Choose from six hours of the following: 6		
BIO 335	Plant Systematics	
BIO 342	Comparative Vertebrate Anatomy	
BIO 525	Aquatic and Wetland Plants	
BIO 528	Virology	
BIO 536	Dendrology	
BIO 542	Freshwater Invertebrates	
BIO 548	Insect Diversity	
BIO 553	Mammalogy	
BIO 554	Ornithology	
BIO 556	Herpetology	
BIO 557	Ichthyology	
BIO 595	Topics in Field Biology:____	
Choose from three hours of the following: 3		
BIO 349	Applied Learning in Biology	
BIO 520	Invasive Species Management	
BIO 521	Plant Ecology	
BIO 550	Animal Behavior	
BIO 555	Behavioral Ecology	
BIO 558	Freshwater Ecology	
BIO 561	Fisheries Biology	
BIO 598	Special Problems	

**Supporting Course Requirements**

CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
MAT 234 or MAT 211	Calculus I (Element 2) <sup>G</sup> Applied Calculus	
PHY 131 or PHY 201	College Physics I (Element 4) <sup>G</sup> University Physics I	
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3-4
CSC 174 or GEO 353	Introduction to Programming for Science & Engineering Geographic Information Systems	3
AGR 215 & AGR 216	Principles of Soils and Principles of Soils Laboratory	4
Choose from one of the following:		3
GEO 302W	Global Environmental Problems	
GEO 325	Environment Land Use Planning	
GEO 435		
GLY 303	Environmental Geoscience	
GLY 315	Hydrology	
<b>Total Hours</b>		<b>36-37</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Biology, Bachelor of Science with a Concentration in Biology Teaching (B.S.)

### Program Requirements

CIP Code: 26.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3

**Element 6**

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Biology majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
BIO 320	Principles of Microbiology	
BIO 349	Applied Learning in Biology	
BIO 598	Special Problems	
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)	
A program-approved leadership experience		
A program-approved study abroad experience		

**Major Requirements**

<i>Core Courses</i>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 316	Ecology	4
BIO 318	General Botany	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 495	Evolutionary Application and Theory	1

**Concentrations**

Students must select at least one of the following Concentrations: Courses used for one concentration may not count toward another concentration.

Aquatic Biology	
Biodiversity and Conservation	
General Biology	
Biology Teaching	58-61

*Supporting Course Requirements*

Choose from 14-26 hours of supporting courses

14-16 hours of Aquatic Biology and General Biology	
20-23 hours of Biodiversity and Conservation	
21-26 hours of Biology Teaching (must also complete all Professional Education Requirements)	

*Free Electives*

Choose from 0-28 hours of free electives	0-28
<b>Total Hours</b>	<b>124-155</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 348	Vertebrate Physiology	3
<i>Supporting Course Requirements</i>		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
PHY 131 or PHY 201	College Physics I (Element 4) <sup>G</sup> University Physics I	
Choose from one of the following:		
MAT 120	Trigonometry (Element 2) <sup>G</sup>	
MAT 122	Precalculus Mathematics (Element 2) <sup>G</sup>	
MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
MAT 234	Calculus I (Element 2) <sup>G</sup>	
Choose from one of the following:		
PHY 132	College Physics II	3-5
PHY 202	University Physics II	
GLY 108	Earthquakes and Volcanoes	
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3-4
<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
EMS 300W	Curriculum and Instructional Design	3
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	3
ESE 561	Teaching Science in Secondary School	3
<i>Clinical Experiences:</i>		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>Exit Requirements</i>		
PRAXIS Examination		

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

<b>Total Hours</b>	<b>58-61</b>
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### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

# Biology, Bachelor of Science with a Concentration in General Biology (B.S.)

## Program Requirements

CIP Code: 26.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Biology majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		

BIO 320	Principles of Microbiology
BIO 349	Applied Learning in Biology
BIO 598	Special Problems
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)

A program-approved leadership experience

A program-approved study abroad experience

### Major Requirements

#### Core Courses

BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 316	Ecology	4
BIO 318	General Botany	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 495	Evolutionary Application and Theory	1

#### Concentrations

Students must select at least one of the following Concentrations:

Courses used for one concentration may not count toward another concentration.

Aquatic Biology	
Biodiversity and Conservation	
General Biology	23-24
Biology Teaching	

#### Supporting Course Requirements

Choose from 14-26 hours of supporting courses

14-16 hours of Aquatic Biology and General Biology	
20-23 hours of Biodiversity and Conservation	
21-26 hours of Biology Teaching (must also complete all Professional Education Requirements)	

#### Free Electives

Choose from 30 hours of free electives 31

**Total Hours** 120-121

## Concentration

Code	Title	Hours
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#### Concentration Courses

Choose from 12 hours of the following: <sup>1</sup>	12
Any 300, 400, or 500 level BIO, CHE, or PHY course not included in Biology Core or from which Biology majors are not excluded	
PHY 132 College Physics II	
or PHY 202 University Physics II	

#### Supporting Course Requirements

CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
MAT 234	Calculus I (Element 2) <sup>G</sup>	
or MAT 211	Applied Calculus	
PHY 131	College Physics I (Element 4) <sup>G</sup>	

or PHY 201	University Physics I	
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	

**Total Hours** 23-24

1

Students applying to graduate school are strongly advised to include CHE 362 Organic Chemistry II/CHE 362L Organic Chemistry Lab II and PHY 132 College Physics II or PHY 202 University Physics II as part of the 12 hours.

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Biology, Minor

Students pursuing Biology or Biomedical Sciences degrees may not declare a Minor in Biology.

## Teaching Certification for Biology Minor

The previously described minor in biology must be coupled with a secondary teaching certificate in another discipline to qualify students to teach biology at the secondary level. Students enrolled in a teaching program other than science who desire teaching certification in biology will be required to take ESE 561 Teaching Science in Secondary School and student teach in biology. Please note that the biology minor GPA must be 2.75 or greater to seek certification in biology. The minor certification cannot be recommended until the secondary teaching program is completed and a recommendation for certification has been processed. Appropriate PRAXIS exams must be completed for each area of certification being recommended.

## PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

## Program Requirements

A student may qualify for a minor in biology by completing 21 semester hours to include:

Code	Title	Hours
<b>Required Courses</b>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 318	General Botany	4
BIO 319	General Zoology	4
Choose from five hours of 300 through 500 level courses normally taken for one of the majors in the department		5
<b>Total Hours</b>		<b>21</b>

# Biomedical Sciences, Bachelor of Science with a Concentration in Biomedical Research (B.S.)

The Biomedical Sciences degree program is a rigorous program designed to prepare students for careers in biomedical research and a wide variety of biomedical professional programs. The Biomedical Sciences degree can be tailored to prepare students for graduate or professional schools, including but not limited to medical, dental, physician associates, optometry, and veterinary medicine. This degree will prepare students interested in pursuing a broad range of careers, including biotechnology, industrial microbiology, or pharmaceutical sales. The biomedical sciences degree provides students with a curriculum that develops strong creative and critical thinking skills while also providing them with the required and recommended courses for admission to graduate and professional schools.

## Admission Requirements

All students must be admitted to the University by the EKU Admissions Office and declare their major as biomedical sciences (BMS). For admission to the BMS program, a high school graduate must meet the following three criteria:

1. A Math ACT score of 23 (or equivalent SAT) or a "C" or better in MAT 112A Algebra: Polynomials/MAT 112B Algebra: Functions & Matrices or MAT 114 College Algebra
2. An English ACT score of 20 (or equivalent SAT), or a "C" or better in ENG 101 Reading, Writing, and Rhetoric
3. A High School GPA of a 3.0.

Individuals who are transfer students or wish to change their major must have attained a minimum GPA of 3.00 overall on a minimum of 24 hours attempted. Entering freshmen and transfer students who do not meet the minimum requirements are encouraged to enroll in the general option of the Biology BS Degree program, until qualified to transfer into the program.

## Progression Policy

The Biomedical Sciences degree program limits the number of major core, concentration, and supporting courses which may be repeated. Students are allowed only one repeat per major course and a total of not more than two repeats in all major courses combined. In addition, a supporting course may be repeated only once.

To remain in the Biomedical Sciences degree program, a student must maintain an EKU GPA and overall GPA of 3.0 with a grade of "C"/2.0 or better in each of the supporting and major courses of the curriculum. Students who fail to maintain a 3.0 GPA will be removed from the BMS program and placed in the Biology B.S. program, General Biology Concentration.

## Program Requirements

CIP Code: 26.0102

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3

C: Oral Communication (p. 62)	3
<b>Element 2</b>	
Quantitative Reasoning (p. 63)	3
<b>Element 3</b>	
A: Arts (p. 63)	3
B: Humanities (p. 63)	3
<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36

### Student Success Seminar

SCO 100B	Student Success Seminar in Biology (waived for transfers with 30+ hrs.)	1
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Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - BMS majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)

Choose from one of the following:

BIO 320	Principles of Microbiology	
BIO 598	Special Problems	
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)	
A program-approved leadership experience		
A program-approved study abroad experience		

### Major Requirements

#### Core Courses

BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 331	Cell Biology	3
BIO 332	Careers in Biomedical Sciences	1
BIO 348	Vertebrate Physiology	3
BIO 495	Evolutionary Application and Theory	1

#### Concentrations

Students must select at least one of the following Concentrations:<sup>1</sup>

Biomedical Research	25-28
Pre-Medical	
Pre-Dental	

Pre-Physician Associate	
Pre-Optometry	
Pre-Veterinary	
<i>Supporting Course Requirements</i>	
All Concentrations:	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>
CHE 112 & 112L	General Chemistry II and General Chemistry Lab 4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I 4
INF 104	Computer Literacy with Software Applications 3
PHI 383 or PHI 383W	Health & Biomedical Ethics 3
PHY 131 or PHY 201	College Physics I (Element 4) <sup>G</sup> or University Physics I
Choose from one of the following:	
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>
STA 270	Applied Statistics (Element 2) <sup>G,2</sup>
See Additional Supporting Course Requirements on individual Concentration lists	0-6
<i>Free Electives</i>	
Choose from 16 hours of free electives	16
<b>Total Hours</b>	<b>120-129</b>

1

Courses used for one concentration may not count toward another concentration.

2

STA 270 Applied Statistics may be required for admission to Physician Associate or other professional programs.

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 531	Principles of Molecular Biology	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430 or CHE 431	Biochemistry of Macromolecules or Metabolic Biochemistry	3
CHE 432	Biochemistry Laboratory	1
MAT 234	Calculus I	4
Choose from 9-12 hours of the following:		9-12
BIO 342	Comparative Vertebrate Anatomy	
BIO 527	Immunology	
BIO 528	Virology	
BIO 533	Bioinformatics: Principles and Applications	
BIO 535	Pathogenic Microbiology	
BIO 546	Histology	
BIO 547	Comparative Vertebrate Embryology	
BIO 598	Special Problems	

CHE 430	Biochemistry of Macromolecules
CHE 431	Metabolic Biochemistry
<b>Total Hours</b>	<b>25-28</b>

## Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Dental (B.S.)

The Biomedical Sciences degree program is a rigorous program designed to prepare students for careers in biomedical research and a wide variety of biomedical professional programs. The Biomedical Sciences degree can be tailored to prepare students for graduate or professional schools, including but not limited to medical, dental, physician associates, optometry, and veterinary medicine. This degree will prepare students interested in pursuing a broad range of careers, including biotechnology, industrial microbiology, or pharmaceutical sales. The biomedical sciences degree provides students with a curriculum that develops strong creative and critical thinking skills while also providing them with the required and recommended courses for admission to graduate and professional schools.

## Admission Requirements

All students must be admitted to the University by the ECU Admissions Office and declare their major as biomedical sciences (BMS). For admission to the BMS program, a high school graduate must meet the following three criteria:

1. A Math ACT score of 23 (or equivalent SAT) or a "C" or better in MAT 112A Algebra: Polynomials/MAT 112B Algebra: Functions & Matrices or MAT 114 College Algebra
2. An English ACT score of 20 (or equivalent SAT), or a "C" or better in ENG 101 Reading, Writing, and Rhetoric
3. A High School GPA of a 3.0.

Individuals who are transfer students or wish to change their major must have attained a minimum GPA of 3.00 overall on a minimum of 24 hours attempted. Entering freshmen and transfer students who do not meet the minimum requirements are encouraged to enroll in the general option of the Biology BS Degree program, until qualified to transfer into the program.

## Progression Policy

The Biomedical Sciences degree program limits the number of major core, concentration, and supporting courses which may be repeated. Students are allowed only one repeat per major course and a total of not more than two repeats in all major courses combined. In addition, a supporting course may be repeated only once.

To remain in the Biomedical Sciences degree program, a student must maintain an ECU GPA and overall GPA of 3.0 with a grade of "C"/2.0 or better in each of the supporting and major courses of the curriculum. Students who fail to maintain a 3.0 GPA will be removed from the BMS program and placed in the Biology B.S. program, General Biology Concentration.

## Program Requirements

CIP Code: 26.0102

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
SCO 100B	Student Success Seminar in Biology (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
ACCT - BMS majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
BIO 320	Principles of Microbiology	
BIO 598	Special Problems	
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)	
A program-approved leadership experience		
A program-approved study abroad experience		
<b>Major Requirements</b>		
<i>Core Courses</i>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 331	Cell Biology	3
BIO 332	Careers in Biomedical Sciences	1
BIO 348	Vertebrate Physiology	3
BIO 495	Evolutionary Application and Theory	1

## Concentrations

Students must select at least one of the following Concentrations: <sup>1</sup>		
Biomedical Research		
Pre-Medical		
Pre-Dental		23
Pre-Physician Associate		
Pre-Optometry		
Pre-Veterinary		
<i>Supporting Course Requirements</i>		
All Concentrations:		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
INF 104	Computer Literacy with Software Applications	3
PHI 383	Health & Biomedical Ethics	3
or PHI 383W	Health and Biomedical Ethics	
PHY 131	College Physics I (Element 4) <sup>G</sup>	
or PHY 201	University Physics I	

Choose from one of the following:

STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
STA 270	Applied Statistics (Element 2) <sup>G,2</sup>	
See Additional Supporting Course Requirements on individual Concentration lists		0-6
<i>Free Electives</i>		
Choose from 18 hours of free electives		18
<b>Total Hours</b>		<b>120-126</b>

<sup>1</sup>

Courses used for one concentration may not count toward another concentration.

<sup>2</sup>

STA 270 Applied Statistics may be required for admission to Physician Associate or other professional programs.

<sup>G</sup>

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 342	Comparative Vertebrate Anatomy	4
or BIO 546	Histology	
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3
or CHE 431	Metabolic Biochemistry	
MAT 120	Trigonometry (or higher)	3
Choose from nine hours of the following:		9
BIO 342	Comparative Vertebrate Anatomy	
BIO 527	Immunology	
BIO 528	Virology	

BIO 531	Principles of Molecular Biology
BIO 535	Pathogenic Microbiology
BIO 546	Histology
BIO 547	Comparative Vertebrate Embryology
BIO 598	Special Problems
CHE 430	Biochemistry of Macromolecules
CHE 431	Metabolic Biochemistry
CHE 432	Biochemistry Laboratory
<b>Total Hours</b>	<b>23</b>

## Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Medical (B.S.)

The Biomedical Sciences degree program is a rigorous program designed to prepare students for careers in biomedical research and a wide variety of biomedical professional programs. The Biomedical Sciences degree can be tailored to prepare students for graduate or professional schools, including but not limited to medical, dental, physician associates, optometry, and veterinary medicine. This degree will prepare students interested in pursuing a broad range of careers, including biotechnology, industrial microbiology, or pharmaceutical sales. The biomedical sciences degree provides students with a curriculum that develops strong creative and critical thinking skills while also providing them with the required and recommended courses for admission to graduate and professional schools.

### Admission Requirements

All students must be admitted to the University by the EKU Admissions Office and declare their major as biomedical sciences (BMS). For admission to the BMS program, a high school graduate must meet the following three criteria:

1. A Math ACT score of 23 (or equivalent SAT) or a "C" or better in MAT 112A Algebra: Polynomials/MAT 112B Algebra: Functions & Matrices or MAT 114 College Algebra
2. An English ACT score of 20 (or equivalent SAT), or a "C" or better in ENG 101 Reading, Writing, and Rhetoric
3. A High School GPA of a 3.0.

Individuals who are transfer students or wish to change their major must have attained a minimum GPA of 3.00 overall on a minimum of 24 hours attempted. Entering freshmen and transfer students who do not meet the minimum requirements are encouraged to enroll in the general option of the Biology BS Degree program, until qualified to transfer into the program.

### Progression Policy

The Biomedical Sciences degree program limits the number of major core, concentration, and supporting courses which may be repeated. Students are allowed only one repeat per major course and a total of not more than two repeats in all major courses combined. In addition, a supporting course may be repeated only once.

To remain in the Biomedical Sciences degree program, a student must maintain an EKU GPA and overall GPA of 3.0 with a grade of "C"/2.0 or better in each of the supporting and major courses of the curriculum. Students who fail to maintain a 3.0 GPA will be removed from the

BMS program and placed in the Biology B.S. program, General Biology Concentration.

## Program Requirements

CIP Code: 26.0102

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100B	Student Success Seminar in Biology (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - BMS majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
BIO 320	Principles of Microbiology	
BIO 598	Special Problems	
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)	
A program-approved leadership experience		
A program-approved study abroad experience		
<b>Major Requirements</b>		
<i>Core Courses</i>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4

BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 331	Cell Biology	3
BIO 332	Careers in Biomedical Sciences	1
BIO 348	Vertebrate Physiology	3
BIO 495	Evolutionary Application and Theory	1

**Concentrations**

Students must select at least one of the following Concentrations:<sup>1</sup>

Biomedical Research	
Pre-Medical	30-34
Pre-Dental	
Pre-Physician Associate	
Pre-Optometry	
Pre-Veterinary	

*Supporting Course Requirements***All Concentrations:**

CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
INF 104	Computer Literacy with Software Applications	3
PHI 383 or PHI 383W	Health & Biomedical Ethics Health and Biomedical Ethics	3
PHY 131 or PHY 201	College Physics I (Element 4) <sup>G</sup> University Physics I	

Choose from one of the following:

STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
STA 270	Applied Statistics (Element 2) <sup>G,2</sup>	

See Additional Supporting Course Requirements on individual Concentration lists 0-6

*Free Electives*

Choose from 16 hours of free electives 16

**Total Hours** 125-135

<sup>1</sup>

Courses used for one concentration may not count toward another concentration.

<sup>2</sup>

STA 270 Applied Statistics may be required for admission to Physician Associate or other professional programs.

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3
CHE 431	Metabolic Biochemistry	3
MAT 120	Trigonometry (or higher)	3

PHY 132	College Physics II	5
or PHY 202	University Physics II	

Choose from at least 6-10 hours of the following: 6-10

BIO 342	Comparative Vertebrate Anatomy	
BIO 527	Immunology	
BIO 528	Virology	
BIO 531	Principles of Molecular Biology	
BIO 535	Pathogenic Microbiology	
BIO 546	Histology	
BIO 547	Comparative Vertebrate Embryology	
BIO 598	Special Problems	
CHE 432	Biochemistry Laboratory	

*Additional Supporting Course Requirements*

PSY 200	Introduction to Psychology	3
or PSY 200W	Introduction to Psychology: Writing Intensive	
PSY 280	Lifespan Developmental Psych.	3
or PSY 308	Abnormal Psychology	
SOC 131	Introductory Sociology (Element 5B) <sup>G</sup>	
or HON 312V	Honors Seminar in the Social and Behavioral Sciences:___	

**Total Hours** 30-34

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Optometry (B.S.)

The Biomedical Sciences degree program is a rigorous program designed to prepare students for careers in biomedical research and a wide variety of biomedical professional programs. The Biomedical Sciences degree can be tailored to prepare students for graduate or professional schools, including but not limited to medical, dental, physician associates, optometry, and veterinary medicine. This degree will prepare students interested in pursuing a broad range of careers, including biotechnology, industrial microbiology, or pharmaceutical sales. The biomedical sciences degree provides students with a curriculum that develops strong creative and critical thinking skills while also providing them with the required and recommended courses for admission to graduate and professional schools.

## Admission Requirements

All students must be admitted to the University by the ECU Admissions Office and declare their major as biomedical sciences (BMS). For admission to the BMS program, a high school graduate must meet the following three criteria:

1. A Math ACT score of 23 (or equivalent SAT) or a "C" or better in MAT 112A Algebra: Polynomials/MAT 112B Algebra: Functions & Matrices or MAT 114 College Algebra
2. An English ACT score of 20 (or equivalent SAT), or a "C" or better in ENG 101 Reading, Writing, and Rhetoric
3. A High School GPA of a 3.0.

Individuals who are transfer students or wish to change their major must have attained a minimum GPA of 3.00 overall on a minimum of 24 hours attempted. Entering freshmen and transfer students who do not meet the minimum requirements are encouraged to enroll in the general option of the Biology BS Degree program, until qualified to transfer into the program.

## Progression Policy

The Biomedical Sciences degree program limits the number of major core, concentration, and supporting courses which may be repeated. Students are allowed only one repeat per major course and a total of not more than two repeats in all major courses combined. In addition, a supporting course may be repeated only once.

To remain in the Biomedical Sciences degree program, a student must maintain an EKU GPA and overall GPA of 3.0 with a grade of "C"/2.0 or better in each of the supporting and major courses of the curriculum. Students who fail to maintain a 3.0 GPA will be removed from the BMS program and placed in the Biology B.S. program, General Biology Concentration.

## Program Requirements

CIP Code: 26.0102

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
SCO 100B	Student Success Seminar in Biology (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - BMS majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)

Choose from one of the following:

BIO 320	Principles of Microbiology
BIO 598	Special Problems
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)

A program-approved leadership experience

A program-approved study abroad experience

### Major Requirements

#### Core Courses

BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 331	Cell Biology	3
BIO 332	Careers in Biomedical Sciences	1
BIO 348	Vertebrate Physiology	3
BIO 495	Evolutionary Application and Theory	1

#### Concentrations

Students must select at least one of the following Concentrations: <sup>1</sup>

Biomedical Research

Pre-Medical

Pre-Dental

Pre-Physician Associate

Pre-Optometry 28-30

Pre-Veterinary

#### Supporting Course Requirements

All Concentrations:

CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
INF 104	Computer Literacy with Software Applications	3
PHI 383	Health & Biomedical Ethics	3
or PHI 383W	Health and Biomedical Ethics	
PHY 131	College Physics I (Element 4) <sup>G</sup>	
or PHY 201	University Physics I	

Choose from one of the following:

STA 215 Introduction to Statistical Reasoning (Element 2) <sup>G</sup>

STA 270 Applied Statistics (Element 2) <sup>G,2</sup>

See Additional Supporting Course Requirements on individual Concentration lists 0-6

#### Free Electives

Choose from 16 hours of free electives 16

**Total Hours 123-131**

1

Courses used for one concentration may not count toward another concentration.

2

STA 270 Applied Statistics may be required for admission to Physician Associate or other professional programs.

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430 or CHE 431	Biochemistry of Macromolecules Metabolic Biochemistry	3
MAT 234	Calculus I	4
PHY 132 or PHY 202	College Physics II University Physics II	5
Choose from 6-8 hours of the following:		6-8
BIO 527	Immunology	
BIO 528	Virology	
BIO 531	Principles of Molecular Biology	
BIO 535	Pathogenic Microbiology	
BIO 546	Histology	
BIO 547	Comparative Vertebrate Embryology	
BIO 598	Special Problems	
CHE 430	Biochemistry of Macromolecules	
CHE 431	Metabolic Biochemistry	
CHE 432	Biochemistry Laboratory	
<i>Additional Supporting Course Requirements</i>		
PSY 200 or PSY 200W	Introduction to Psychology (Element 5B) <sup>G</sup> Introduction to Psychology: Writing Intensive	
Choose from six hours of the following:		6
ANT 120	Introduction to Cultural Anthropology	
ECO 230	Fundamentals of Microeconomics	
HON 312W	Honors Seminar in the Social and Behavioral Sciences:___	
PSY 308	Abnormal Psychology	
SOC 131	Introductory Sociology	
<b>Total Hours</b>		<b>28-30</b>

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

# Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Physician Associate (B.S.)

The Biomedical Sciences degree program is a rigorous program designed to prepare students for careers in biomedical research and a wide variety

of biomedical professional programs. The Biomedical Sciences degree can be tailored to prepare students for graduate or professional schools, including but not limited to medical, dental, physician associates, optometry, and veterinary medicine. This degree will prepare students interested in pursuing a broad range of careers, including biotechnology, industrial microbiology, or pharmaceutical sales. The biomedical sciences degree provides students with a curriculum that develops strong creative and critical thinking skills while also providing them with the required and recommended courses for admission to graduate and professional schools.

## Admission Requirements

All students must be admitted to the University by the ECU Admissions Office and declare their major as biomedical sciences (BMS). For admission to the BMS program, a high school graduate must meet the following three criteria:

1. A Math ACT score of 23 (or equivalent SAT) or a "C" or better in MAT 112A Algebra: Polynomials/MAT 112B Algebra: Functions & Matrices or MAT 114 College Algebra
2. An English ACT score of 20 (or equivalent SAT), or a "C" or better in ENG 101 Reading, Writing, and Rhetoric
3. A High School GPA of a 3.0.

Individuals who are transfer students or wish to change their major must have attained a minimum GPA of 3.00 overall on a minimum of 24 hours attempted. Entering freshmen and transfer students who do not meet the minimum requirements are encouraged to enroll in the general option of the Biology BS Degree program, until qualified to transfer into the program.

## Progression Policy

The Biomedical Sciences degree program limits the number of major core, concentration, and supporting courses which may be repeated. Students are allowed only one repeat per major course and a total of not more than two repeats in all major courses combined. In addition, a supporting course may be repeated only once.

To remain in the Biomedical Sciences degree program, a student must maintain an ECU GPA and overall GPA of 3.0 with a grade of "C"/2.0 or better in each of the supporting and major courses of the curriculum. Students who fail to maintain a 3.0 GPA will be removed from the BMS program and placed in the Biology B.S. program, General Biology Concentration.

## Program Requirements

CIP Code: 26.0102

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3

<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36

<i>Student Success Seminar</i>		
SCO 100B	Student Success Seminar in Biology (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - BMS majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)

Choose from one of the following:		
BIO 320	Principles of Microbiology	
BIO 598	Special Problems	
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)	
A program-approved leadership experience		
A program-approved study abroad experience		

### Major Requirements

<i>Core Courses</i>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 331	Cell Biology	3
BIO 332	Careers in Biomedical Sciences	1
BIO 348	Vertebrate Physiology	3
BIO 495	Evolutionary Application and Theory	1

### Concentrations

Students must select at least one of the following Concentrations: <sup>1</sup>

Biomedical Research	
Pre-Medical	
Pre-Dental	
Pre-Physician Associate	22-24
Pre-Optometry	
Pre-Veterinary	

### Supporting Course Requirements

All Concentrations:

CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
INF 104	Computer Literacy with Software Applications	3
PHI 383 or PHI 383W	Health & Biomedical Ethics Health and Biomedical Ethics	3
PHY 131 or PHY 201	College Physics I (Element 4) <sup>G</sup> University Physics I	

Choose from one of the following:		
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
STA 270	Applied Statistics (Element 2) <sup>G,2</sup>	

See Additional Supporting Course Requirements on individual Concentration lists 0-6

<i>Free Electives</i>		
Choose from 19 hours of free electives		19

**Total Hours 120-128**

**1**  
Courses used for one concentration may not count toward another concentration.

**2**  
STA 270 Applied Statistics may be required for admission to Physician Associate or other professional programs.

**G**  
Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 307	Human Anatomy and Physiology I	3
BIO 308	Human Anatomy and Physiology II	3
EMC 105 or HSA 200	Survey of Medical Terminology Medical Terminology	1-3
MAT 120	Trigonometry (or higher)	3
Choose from at least six hours of the following: 6		
BIO 527	Immunology	
BIO 528	Virology	
BIO 531	Principles of Molecular Biology	
BIO 535	Pathogenic Microbiology	
BIO 546	Histology	
BIO 547	Comparative Vertebrate Embryology	
BIO 598	Special Problems	
CHE 362	Organic Chemistry II	
CHE 430	Biochemistry of Macromolecules	
CHE 431	Metabolic Biochemistry	
CHE 432	Biochemistry Laboratory	
<i>Additional Supporting Course Requirements</i>		
PSY 200 or PSY 200W	Introduction to Psychology (Element 5B) <sup>G</sup> Introduction to Psychology: Writing Intensive	
ANT 120	Introduction to Cultural Anthropology	3

or SOC 131	Introductory Sociology	
PSY 280	Lifespan Developmental Psych.	3
or PSY 280W	Lifespan Developmental Psychology: Writing Intensive	
<b>Total Hours</b>		<b>22-24</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Biomedical Sciences, Bachelor of Science with a Concentration in Pre-Veterinary (B.S.)

The Biomedical Sciences degree program is a rigorous program designed to prepare students for careers in biomedical research and a wide variety of biomedical professional programs. The Biomedical Sciences degree can be tailored to prepare students for graduate or professional schools, including but not limited to medical, dental, physician associates, optometry, and veterinary medicine. This degree will prepare students interested in pursuing a broad range of careers, including biotechnology, industrial microbiology, or pharmaceutical sales. The biomedical sciences degree provides students with a curriculum that develops strong creative and critical thinking skills while also providing them with the required and recommended courses for admission to graduate and professional schools.

### Admission Requirements

All students must be admitted to the University by the ECU Admissions Office and declare their major as biomedical sciences (BMS). For admission to the BMS program, a high school graduate must meet the following three criteria:

1. A Math ACT score of 23 (or equivalent SAT) or a "C" or better in MAT 112A Algebra: Polynomials/MAT 112B Algebra: Functions & Matrices or MAT 114 College Algebra
2. An English ACT score of 20 (or equivalent SAT), or a "C" or better in ENG 101 Reading, Writing, and Rhetoric
3. A High School GPA of a 3.0.

Individuals who are transfer students or wish to change their major must have attained a minimum GPA of 3.00 overall on a minimum of 24 hours attempted. Entering freshmen and transfer students who do not meet the minimum requirements are encouraged to enroll in the general option of the Biology BS Degree program, until qualified to transfer into the program.

### Progression Policy

The Biomedical Sciences degree program limits the number of major core, concentration, and supporting courses which may be repeated. Students are allowed only one repeat per major course and a total of not more than two repeats in all major courses combined. In addition, a supporting course may be repeated only once.

To remain in the Biomedical Sciences degree program, a student must maintain an ECU GPA and overall GPA of 3.0 with a grade of "C"/2.0 or better in each of the supporting and major courses of the curriculum. Students who fail to maintain a 3.0 GPA will be removed from the BMS program and placed in the Biology B.S. program, General Biology Concentration.

## Program Requirements

CIP Code: 26.0102

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
<i>Student Success Seminar</i>		
SCO 100B	Student Success Seminar in Biology (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - BMS majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
BIO 320	Principles of Microbiology	
BIO 598	Special Problems	
HON 420	Thesis Project and Seminar (with a thesis topic approved by the Biology department)	
A program-approved leadership experience		
A program-approved study abroad experience		
<b>Major Requirements</b>		
<i>Core Courses</i>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 319	General Zoology	4
BIO 320	Principles of Microbiology	4
BIO 331	Cell Biology	3

BIO 332	Careers in Biomedical Sciences	1
BIO 348	Vertebrate Physiology	3
BIO 495	Evolutionary Application and Theory	1

**Concentrations**

Students must select at least one of the following Concentrations: <sup>1</sup>

Biomedical Research	
Pre-Medical	
Pre-Dental	
Pre-Physician Associate	
Pre-Optometry	
Pre-Veterinary	22-28

*Supporting Course Requirements*

All Concentrations:

CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
INF 104	Computer Literacy with Software Applications	3
PHI 383 or PHI 383W	Health & Biomedical Ethics / Health and Biomedical Ethics	3
PHY 131 or PHY 201	College Physics I (Element 4) <sup>G</sup> / University Physics I	

Choose from one of the following:

STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
STA 270	Applied Statistics (Element 2) <sup>G,2</sup>	

See Additional Supporting Course Requirements on individual Concentration lists 0-6

*Free Electives*

Choose from 19 hours of free electives 19

**Total Hours 120-132**

<sup>1</sup>

Courses used for one concentration may not count toward another concentration.

<sup>2</sup>

STA 270 Applied Statistics may be required for admission to Physician Associate or other professional programs.

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 321 or AGR 421	Feeds and Feeding / Animal Nutrition	3-4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430 or CHE 431	Biochemistry of Macromolecules / Metabolic Biochemistry	3
MAT 120	Trigonometry (or higher)	3
Choose from 9-14 hours of the following:		9-14

BIO 342	Comparative Vertebrate Anatomy
BIO 514	Evolution
BIO 528	Virology
BIO 531	Principles of Molecular Biology
BIO 533	Bioinformatics: Principles and Applications
BIO 535	Pathogenic Microbiology
BIO 546	Histology
BIO 547	Comparative Vertebrate Embryology
BIO 550	Animal Behavior
BIO 598	Special Problems
CHE 430	Biochemistry of Macromolecules
CHE 431	Metabolic Biochemistry
CHE 432	Biochemistry Laboratory

**Total Hours 22-28**

## Wildlife Management, Bachelor of Science with a Concentration in Conservation Management (B.S.)

### Program Requirements

CIP Code: 03.0601

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100B	Student Success Seminar in Biology (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Wildlife Management majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)

Choose from one of the following:

BIO 349	Applied Learning in Biology
WLD 489W	Wildlife Research and Writing
HON 420	Thesis Project and Seminar (with a program-approved thesis topic)
A program-approved undergraduate scholarly or creative activity	
A program-approved study abroad experience	

**Major Requirements**

*Core Courses*

BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 316	Ecology	4
BIO 318	General Botany	4
BIO 319	General Zoology	4
BIO 335	Plant Systematics	3
or BIO 536	Dendrology	
BIO 495	Evolutionary Application and Theory	1
BIO 532	Conservation Biology	3
BIO 557	Ichthyology	3
BIO 558	Freshwater Ecology	3
or BIO 561	Fisheries Biology	
WLD 381	Principles of Wildlife Management	3
WLD 382	Wildlife Population Analysis	4
WLD 489W	Wildlife Research and Writing	3
WLD 585	Wildlife Resource Policy and Administration	3
WLD 586	Wetland Wildlife Management	4
WLD 588	Fire Ecology and Management	1

*Supporting Course Requirements*

AGR 215	Principles of Soils <sup>1</sup>	3
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
MAT 120	Trigonometry (Element 2) <sup>G</sup>	
or MAT 211	Applied Calculus	
or MAT 234	Calculus I	
GEO 210	Introduction to Physical Geography (Element 4) <sup>G</sup>	
GEO 353	Geographic Information Systems	3
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	
or STA 270	Applied Statistics	

**Concentrations**

Students must select at least one of the following Concentrations: <sup>2</sup> 15

- Game Management
- Conservation Management

*Free Electives*

Choose from 11-13 hours of free electives	11-13
<b>Total Hours</b>	<b>120-122</b>

1

AGR 216 Principles of Soils Laboratory not required

2

Courses used for one concentration may not count toward another concentration.

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 520	Invasive Species Management	3
Choose from two of the following:		6
BIO 553	Mammalogy	
BIO 554	Ornithology	
BIO 556	Herpetology	
Choose from two of the following:		6
GEO 325	Environment Land Use Planning	
GEO 453	Advanced GIS	
GEO 456	Remote Sensing	
WLD 587	Urban Wildlife Management	
<b>Total Hours</b>		<b>15</b>

**Wildlife Management, Bachelor of Science with a Concentration in Game Management (B.S.)**

**Program Requirements**

CIP Code: 03.0601

**Summary Checklist for General Education**

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100B	Student Success Seminar in Biology (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Wildlife Management majors will fulfill ACCT with one of the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
BIO 349	Applied Learning in Biology	
WLD 489W	Wildlife Research and Writing	
HON 420	Thesis Project and Seminar (with a program-approved thesis topic)	
A program-approved undergraduate scholarly or creative activity		
A program-approved study abroad experience		
<b>Major Requirements</b>		
<i>Core Courses</i>		
BIO 111	Cell and Molecular Biology	4
BIO 112	Ecology and Evolution	4
BIO 316	Ecology	4
BIO 318	General Botany	4
BIO 319	General Zoology	4
BIO 335	Plant Systematics	3
or BIO 536	Dendrology	
BIO 495	Evolutionary Application and Theory	1
BIO 532	Conservation Biology	3
BIO 557	Ichthyology	3
BIO 558	Freshwater Ecology	3
or BIO 561	Fisheries Biology	
WLD 381	Principles of Wildlife Management	3
WLD 382	Wildlife Population Analysis	4
WLD 489W	Wildlife Research and Writing	3
WLD 585	Wildlife Resource Policy and Administration	3
WLD 586	Wetland Wildlife Management	4
WLD 588	Fire Ecology and Management	1
<i>Supporting Course Requirements</i>		
AGR 215	Principles of Soils <sup>1</sup>	3
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) <sup>G</sup>	
MAT 120	Trigonometry (Element 2) <sup>G</sup>	
or MAT 211	Applied Calculus	
or MAT 234	Calculus I	
GEO 210	Introduction to Physical Geography (Element 4) <sup>G</sup>	
GEO 353	Geographic Information Systems	3
STA 215	Introduction to Statistical Reasoning (Element 2) <sup>G</sup>	

or STA 270 Applied Statistics

### Concentrations

Students must select at least one of the following Concentrations: 15

Game Management

Conservation Management

### Free Electives

Choose from 5-7 hours of free electives 11-13

**Total Hours 120-122**

1

AGR 216 Principles of Soils Laboratory not required

2

Courses used for one concentration may not count toward another concentration.

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 115	Operation of Agricultural Equipment	2
BIO 553	Mammalogy	3
BIO 554	Ornithology	3
WLD 583	Game Species Management	3
WLD 584	Upland Wildlife Management	4
<b>Total Hours</b>		<b>15</b>

## Department of Chemistry

### Chair

Dr. Tanea Reed  
(859) 622-1456  
Science Building 4126

### Faculty

K. Abdelhay, D. Bussan, J. Fredericks, P. Gao, J. Jenkins, A. Matheyambath, J. May, M. Ndinguri, D. Quan, T. Reed, L. Rowe, B. Shi, C. Tran, L. Zyzak

### Bachelor's

- Chemistry, Bachelor of Science with a Concentration in Biochemistry (ACS Certification) (B.S.) (p. 499)
- Chemistry, Bachelor of Science with a Concentration in Biochemistry (B.S.) (p. 500)
- Chemistry, Bachelor of Science with a Concentration in Chemistry (ACS Certification) (B.S.) (p. 501)
- Chemistry, Bachelor of Science with a Concentration in Chemistry (B.S.) (p. 502)
- Chemistry, Bachelor of Science with a Concentration in Chemistry Teaching (B.S.) (p. 503)
- Chemistry, Bachelor of Science with a Concentration in Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate) (B.S.) (p. 505)

- Chemistry, Bachelor of Science with a Concentration in Pre-Pharmacy (B.S.) (p. 506)
- Forensic Science, Bachelor of Science with a Concentration in Forensic Biology (B.S.) (p. 509)
- Forensic Science, Bachelor of Science with a Concentration in Forensic Chemistry (B.S.) (p. 510)

## Accelerated

*No results were found.*

## Minor

- Chemistry/Teaching, Minor (p. 507)
- Forensic Science, Minor (p. 512)

## Certificate

- Fermentation Science, University Certificate (p. 508)
- Fermentation, Departmental Certificate (p. 508)

## Courses

### Chemistry

#### **CHE 100. Inquiry Chemistry for Middle School Teachers. (3 Credits)**

A. Prerequisite: completion of all academic readiness requirements in English and reading or completion of ENG 101R and Math ACT score of 19 or higher, Math SAT score of 500 or higher, or passing score on the math placement test, or MAT 105 or higher; pre-teaching or teaching middle school, special education, and DHH education majors only, Activity oriented chemistry; elements, molecules, solutions, acids and bases, reactions, energy and environmental topics. 2 Lec/2 Lab. Gen. Ed. E-4 [NS].

#### **CHE 101. Introductory Chemistry. (3 Credits)**

I, II. Prerequisite: completion of all academic readiness requirements in English and reading or completion of ENG 101R; and Math ACT score of 19 or higher, or passing score on math placement test, or Math SAT score of 500 or higher, or MAT 105 or higher. Corequisite: CHE 101L. For students who plan to take no more than one year of chemistry. Basic principles of structure and properties of matter, chemical nomenclature and reactivity. Relates chemistry concepts to everyday life phenomena. A withdrawal from CHE 101 must be matched by a withdrawal from CHE 101L. Gen. Ed. E-4 with CHE 101L [NS].

#### **CHE 101L. Introductory Chemistry Lab. (1 Credit)**

I, II. Prerequisite: completion of all developmental requirements in English and reading. Prerequisite or Corequisite: CHE 101. Laboratory component of CHE 101. Basic laboratory techniques, methods of separation, types of chemical reactions, solution preparation, titrations, household chemicals, molecular modeling. 2 Lab. Gen. Ed. IVB with CHE 101. Credit will not be awarded for both CHE 101L and CHE 107.

#### **CHE 102. Introductory Chemistry II. (3 Credits)**

I, II. Prerequisite: CHE 101 and 101L or CHE 111 and 111L. Prerequisite or Corequisite: CHE 102L. Continuation of CHE 101. A survey on the classes of organic molecules including their common uses and physical and chemical properties. In addition, an introductory look at the structure and function of biological macromolecules. Gen. Ed. VII (NS) with CHE 102L. Withdrawal from CHE 102 must be matched by a withdrawal from CHE 102L.

#### **CHE 102L. Introductory Chemistry Lab II. (1 Credit)**

I, II. Prerequisite: CHE 101 and 101L. Prerequisite or Corequisite: CHE 102. Lab component of CHE 102. Perform basic organic reactions and laboratory procedures including melting point, distillation, and recrystallization. 2 Lab. Gen. Ed. VII (NS) with CHE 102.

#### **CHE 104. Inquiry Physical Science for Elementary Teachers. (3 Credits)**

I, II. Cross-Listed with PHY 104. Prerequisite: Elementary, special education elementary, and DHH elementary education majors only, sophomore standing, and MAT 112 or 112B or higher. An activity-oriented conceptual course in the physical sciences. Topics include the structure and properties of matter, heat and temperature, forces, motion, magnets, energy, and sound waves. Credit will not be awarded for students who have credit for PHY 104. 2 Lec/2 Lab.

#### **CHE 105. Chemistry for the Health Sciences. (3 Credits)**

I, II. Prerequisite: completion of all academic readiness indicators in English and reading or completion of ENG 101R; and math ACT score of 19 or higher, math SAT score of 500 or higher or passing score on the math placement test. or, MAT 105 or higher or STA 215 or higher. Prerequisite or Corequisite: CHE 105L. An introductory course for students in allied health. Principles of bonding structure, and reactivity related to biological processes. A withdrawal from CHE 105 must be matched by a withdrawal from CHE 105L. Gen.Ed. VII (NS) or IVB with CHE 105L.

#### **CHE 105L. Health Science Chemistry Lab. (1 Credit)**

I, II. Prerequisite: completion of all academic readiness requirements in English and reading or completion of ENG 101R; Math ACT score of 19 or higher, Math SAT score of 510 or higher, MAT105 or higher, or passing score on math placement test, or STA 215 or higher. Prerequisite or Corequisite: CHE 105. Laboratory experiments that demonstrate chemical concepts and laboratory techniques related to the health science profession. 2 Lab. Gen. Ed, VII (NS) or IVB with CHE 105.

#### **CHE 107. Introductory Chemistry Lab. (1 Credit)**

I, II. Prerequisite: completion of all developmental requirements. Prerequisite or Corequisite: CHE 101 or CHE 105. Laboratory component of CHE 101 and CHE 105. Basic laboratory techniques, methods of separation, types of chemical reactions, solution preparation, titrations, household chemicals, molecular modeling. 2 Lab. Gen. Ed. IVB with CHE 101 or CHE 105.

#### **CHE 110. General Chemistry Preparation. (3 Credits)**

A. Prerequisite: Completion of all developmental requirements. Prepares students for further studies in general chemistry. Topics will include introduction to matter, chemical formulas and reactions, bonding and molecules, chemical calculations and the periodic table.

#### **CHE 111. General Chemistry. (3 Credits)**

I, II. Prerequisite or Corequisite: CHE 111L and ACT math score of 22 or higher; or SAT math score of 530; or MAT 112B (C or better) or MAT 114 (C or better) or higher or departmental approval. Principles of atomic and molecular structure and reactivity, stoichiometry, states of matter. Prepares students for further studies in chemistry. One year of high school chemistry is recommended. A withdrawal from CHE 111 must be matched by a withdrawal from CHE 111L. Gen. Ed. VII (NS) or IVB with CHE 111L.

#### **CHE 111L. General Chemistry Lab I. (1 Credit)**

I, II. Formerly CHE 115. Prerequisite or Corequisite: CHE 111. Laboratory component of CHE 111. Basic laboratory techniques, methods of separation, types of chemical reactions, solution preparation and standardization, titrations, molecular modeling, qualitative analysis, gases, virtual labs on computer. Credit will not be awarded to students who have credit for CHE 115. 3 Lab. Gen. Ed. IVB with CHE 111.

**CHE 112. General Chemistry II. (3 Credits)**

I, II. Prerequisite: CHE 111 and 111L with a grade of "C" or better. Prerequisite or Corequisite: CHE 112L or CHE 112HL with a grade of "C" or better. Continuation of CHE 111. Kinetics and equilibrium, solution chemistry, energy changes in chemical reactions, descriptive inorganic chemistry. Prepares students for further studies in chemistry. A withdrawal from CHE 112 must be matched by a withdrawal from CHE 112L or CHE 112HL. Gen. Ed. VII (NS) or IVB with CHE 112L or CHE 112HL.

**CHE 112L. General Chemistry Lab. (1 Credit)**

I, II. Formerly CHE 116. Prerequisites: CHE 111 and 111L with a grade of "C" or better. Prerequisite or Corequisite: CHE 112 with a grade of "C" or better. Laboratory component of CHE 112. Kinetics, equilibrium, UV-VIS spectroscopy, introductory qualitative and quantitative analysis, electrochemistry, virtual labs on computer. Credit will not be awarded to students who have credit for CHE 116. 3 Lab. Gen. Ed. IVB with CHE 112.

**CHE 200. Volunteering in Chemistry. (0 Credits)**

(0) A. An exposure to chemistry outreach activities, including, but not limited to exploring chemical research projects, organizing chemistry community service, and assisting other chemistry departmental events. Students can choose the focus of the volunteering in each semester. Passing grade achieved for attending 80% of the designated activities in each semester.

**CHE 250. Descriptive Inorganic Chemistry. (2 Credits)**

(2) A. Prerequisite: CHE 112 and CHE 112L with grade of 'C' or better. Basic principles of inorganic chemistry including the discovery of the elements, their properties, and the significance of the Periodic table; atomic structure, bonding models, acid-base chemistry, oxidation-reduction chemistry, and coordination chemistry. (2 Lec)

**CHE 261. Organic Chemistry Preparation. (3 Credits)**

A. Prepares students for further studies in organic chemistry. This course will emphasize fundamental concepts and help students develop a productive mindset for studying Organic Chemistry.

**CHE 325. Analytical Chemistry. (3 Credits)**

A. Prerequisite: CHE 112 and 112L (C or better). Prerequisite or Corequisite: CHE 325L. Introduces chemical analysis (with statistical evaluations) focusing on the principles of stoichiometry, chemical equilibrium, titrimetric and spectrophotometric analysis, potentiometry, and analytical separation processes. 3 Lec. A withdrawal from CHE 325 must be matched by a withdrawal from CHE 325L.

**CHE 325L. Analytical Chemistry Lab. (2 Credits)**

A. Prerequisite: CHE 112 and 112L (C or better). Prerequisite or Corequisite: CHE 325. Lab component of CHE 325. Lab course designed to introduce the principles of wet chemical techniques and basic instrumental analysis through experimentation. 4 Lab.

**CHE 349. Applied Learning in Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: sixteen, baccalaureate. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major or minor requirements.

**CHE 349A. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: sixteen, baccalaureate. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major or minor requirements.

**CHE 349B. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. May not be used to satisfy area, major or minor requirements.

**CHE 349C. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. May not be used to satisfy area, major or minor requirements.

**CHE 349D. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. May not be used to satisfy area, major or minor requirements.

**CHE 349E. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. May not be used to satisfy area, major or minor requirements.

**CHE 361. Organic Chemistry I. (3 Credits)**

I, II. Prerequisite: CHE 112 and 112L (C or above). Prerequisite or Co-requisite: CHE361L. Bonding; structure; reaction theory; aliphatic hydrocarbons; functional groups; stereochemistry; aromatic hydrocarbons; spectroscopy; substitution and elimination reactions. A withdrawal from CHE 361 must be matched by a withdrawal from CHE 366.

**CHE 361L. Organic Chemistry Lab I. (1 Credit)**

I, II. Formerly: CHE 366. Prerequisite or Corequisite: CHE 361. Laboratory component of CHE 361. Experimental work to illustrate principles of organic chemistry. Basic techniques including separation and spectroscopic methods; and selected syntheses. 3 Lab. Credit will not be awarded to students who have credit for CHE 366.

**CHE 362. Organic Chemistry II. (3 Credits)**

I, II. Prerequisites: CHE 361 and CHE361L ("C" or above). Prerequisite or Co-requisite: CHE362L. Alcohols and ethers; aldehydes and ketones; carboxylic acids and derivatives; carbanions; amines; phenols; carbohydrates and amino acids. A withdrawal from CHE 362 must be matched by a withdrawal from CHE 362L.

**CHE 362L. Organic Chemistry Lab II. (1 Credit)**

I, II. Formerly: CHE 367. Prerequisites: CHE 361 and CHE 361L with a "C" (2.0) or better. Prerequisite or Corequisite: CHE 362. Laboratory component of CHE 362. Experimental work to illustrate principles of organic chemistry. Selected chemical syntheses and advanced techniques such as separation and spectroscopic methods. 3 Lab. Credit will not be awarded to students who have credit for CHE 367.

**CHE 385W. Chemical Literature. (3 Credits)**

A. Prerequisites: CHE 112(C) and ENG 102, 105(B), or HON 102. Course introduces chemical literature searching, and methods for disseminating chemical data. At the end of this course students will be able to demonstrate the skill to create effective and appropriate styled chemical reports and presentations. Credit will not be awarded to students who have credit for CHE 385.

**CHE 411. Practicum. (1-3 Credits)**

(1-3) A. Departmental Approval. Students will gain specific experiences through participation in planning, testing, analysis, and/or required maintenance in a designated undergraduate chemistry course. Formal project assigned by faculty mentor. May be retaken for a maximum of three hours. 3-9 lab.

**CHE 425. Instrumental Analysis. (3 Credits)**

A. Cross-listed as FOR 411. Prerequisites: CHE 325, 325L, 362, 362L; PHY 132 (or 202); MAT 234 (C or better in each course). Prerequisite or Co-requisite: CHE 425L. Fundamental principles of the operation and application of an analytical instrumentation including spectroscopy, chromatography, electrochemistry, and mass spectrometry found throughout industrial, government, forensic, and/or research environments is presented. Credit will not be awarded to those who have received credit for FOR 411 or CHE 525. 3 Lec.

**CHE 425L. Instrumental Analysis Lab. (1 Credit)**

A. Co-requisite: CHE 425. Lab component of CHE 425. Lab course designed to provide hands-on experience with modern chemical instrumentation for qualitative and quantitative measurements found throughout industrial, government, and/or research environments. Credit will not be awarded for both CHE 425L and FOR 411L. 3 Lab.

**CHE 430. Biochemistry of Macromolecules. (3 Credits)**

A. Prerequisites: CHE 362 and 362L. Structure, analysis, and organization of proteins, nucleic acids, and lipids; physical and organic mechanisms of enzyme action; chemistry of membrane action and the immune system. Credit will not be awarded for both CHE 430 and CHE 530.

**CHE 431. Metabolic Biochemistry. (3 Credits)**

A. Prerequisites: CHE 430 (C or better). Continuation of CHE 430. Chemistry, catabolism, and biosynthesis of carbohydrates, lipids, amino acids, and nucleotides; mechanisms of metabolic control.

**CHE 432. Biochemistry Laboratory. (1 Credit)**

A. Prerequisite or Corequisite: CHE 430 or 431 or departmental approval. Experimental techniques characteristic of biochemical research. Purification and characterization of proteins and nucleic acids; use of computers in modeling biochemistry data. 3 Lab. Credit will not be awarded for both CHE 432 and CHE 532.

**CHE 450. Inorganic Chemistry. (3 Credits)**

I. Prerequisite: CHE 250 (C) and CHE 362 (C). Principles of inorganic chemistry with emphasis on advanced chemical bonding models and their applications to solid-state, coordination, organometallic, bioinorganic, and materials chemistry. (3 Lec).

**CHE 485. Chemistry Seminar. (1 Credit)**

I, II. Prerequisite: CHE 362 (C). Presentation of specific chemical research from recent literature and/or performed experimentation to members of the chemistry faculty and departmental majors. One weekly meeting. May be retaken to a maximum of three hours. Cannot be taken concurrent with CHE 385W.

**CHE 495A. Independent Chemical Research. (1 Credit)**

A. Prerequisite: CHE 112 and departmental approval. An introduction to research in all fields of chemistry. Literature-based assigned research project with a faculty mentor that will require a formal research report. May be retaken to a maximum of three hours. Student must have the independent study proposal form approved by faculty mentor and departmental chair prior to enrollment. Credit will not be awarded for both CHE 495 and CHE 495A. 3 Lab.

**CHE 495B. Chemistry Laboratory Independent Research: \_\_\_\_ (1-3 Credits)**

A. Prerequisites: CHE 112 and departmental approval. Objectives and techniques of chemical research. Problems in all fields of chemistry. May be retaken to a maximum of nine hours. Students must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. Credit will not be awarded for both CHE 495 and CHE 495B.

**CHE 501. Chemtopics: \_\_\_\_\_. (3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry such as environmental chemistry or industrial chemistry. Topics will vary according to students needs. May be retaken to a maximum of six hours.

**CHE 501A. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501B. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501C. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501D. Chemtopics. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501E. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501L. Chemtopics Lab: \_\_\_\_\_. (1 Credit)**

A. Prerequisite: departmental approval. Laboratory experiences chosen from specialized areas of chemistry including advanced chemical instrumentation/analysis, synthetic methods, computational chemistry, or molecular modeling. Topics vary according to student needs. May be retaken to a maximum of two hours. 3 Lab.

**CHE 502. Polymers & Particles. (1 Credit)**

A. Prerequisite: CHE 361/361L ('C' or better in both). Study of the structure, synthesis, preparation, characterization, and properties of synthetic polymers, supramolecular aggregates, and/or meso- or nanoscale materials. (3 Lab)

**CHE 515. Synthetic & Analytical Methods. (3 Credits)**

A. Prerequisites: CHE 362, 362L, 425 (or FOR 411), 425L (or FOR 411L) (C or better in each course). Pre or Corequisite: CHE 450 (C or better). Synthesis, isolation, purification, and characterization (including spectroscopy and other analytical methods) of inorganic and organic compounds and mixtures. Other methods include handling of air and moisture sensitive compounds and molecular computations. 3 Lec/6 Lab.

**CHE 515L. Synthetic & Analytical Methods Lab. (2 Credits)**

A. Prerequisites: CHE 362, 362L, 425 (or FOR 411), 425L (or FOR 411L) (C or better in each course). Senior standing. Prerequisite or Corequisite: CHE 450 (C or better), CHE 515 or CHE 715 (C or better). Synthesis, isolation, purification, and characterization (including spectroscopy and other analytical methods) of inorganic and organic compounds and mixtures. Other methods include handling of air and moisture sensitive compounds and molecular computations. 6 Lab.

**CHE 520. Mass Spectrometry. (3 Credits)**

A. Prerequisite: CHE 362 (C). Topics include types of mass spectrometers; qualitative and quantitative mass spectrometry, different ionization processes, sample inlet systems (including chromatography systems), and interpretation of mass spectral data. Credit will not be awarded for both CHE 520 and FOR 475.

**CHE 570. Biophysical Chemistry I. (4 Credits)**

I, II. Prerequisite: CHE 361 (C or better), BIO 111 or higher (C or better), and either MAT 234 or MAT 261. Prerequisite or Corequisite: PHY 131 or 201. An introduction to physical and chemical explanations of biological phenomenon and physical chemistry theories and methodologies applied on biological systems. Topics include thermodynamics, chemical equilibrium, kinetics, quantum chemistry, spectroscopy, and selected topics. 3 Lec/ 2.5 lab. Credit will not be awarded for CHE 470, 570, 770.

**CHE 574. Physical Chemistry I. (3 Credits)**

A. Prerequisite: CHE 361 (C or better). Prerequisites or Corequisites: CHE 574L and MAT 244 and PHY 131 or 201 (C or better in each course). A study of thermodynamic properties in physical and chemical systems; electrochemical processes; rates and mechanisms of chemical reactions. Credit will not be awarded for both CHE 574 and CHE 471.

**CHE 574L. Physical Chemistry Lab I. (1 Credit)**

A. Prerequisite: CHE 325 and 325L (C or better in each course). Prerequisites or Corequisites: CHE 574 and CHE 385 or 385W (C or better in each course). Laboratory component of CHE 574. Experimental work to illustrate principles of physical chemistry that include thermochemistry, thermodynamics, equilibrium, and reaction kinetics. 3 Lab.

**CHE 575. Physical Chemistry II. (3 Credits)**

A. Prerequisite: CHE 361 (C or better). Prerequisite or Corequisite: CHE 575L and MAT 254 and PHY 132 or 202 (C or better in each course). An introduction to quantum mechanics as applied to model, atomic, and molecular systems; applications of atomic and molecular spectroscopy; introduction to computational chemistry. Credit will not be awarded for both CHE 575 and CHE 472.

**CHE 575L. Physical Chemistry Lab II. (1 Credit)**

A. Prerequisite: CHE 325 and 325L (C or better in each course). Prerequisites or Corequisites: CHE 575 and CHE 385 or 385W (C or better in each course). Laboratory component of CHE 575. Experimental work to illustrate principles of physical chemistry including UV-visible, infrared, and fluorescence spectroscopic techniques, fundamentals of laser operation, statistical mechanics, and computational chemistry. 3 Lab.

**CHE 576. Advanced Physical Chemistry. (3 Credits)**

A. Prerequisite: CHE 575 (MAT 353 Recommended) or departmental approval. Intermediate and advanced topics in thermodynamics, kinetics, structure and bonding. Credit will not be awarded to students who have credit for CHE 572.

**Fermentation****FMT 140. Introduction to Fermentation. (4 Credits)**

A. Prerequisites: completion of all academic readiness requirements. Course will provide an introduction to chemical and biological concepts as it relates to the production of desirable beverages and other products through biochemical pathways of microorganisms typically used (for fermentation process). 3 Lec/ 3 Lab. Gen. Ed. E-4 [NS].

**FMT 343. Fermentation Microbiology. (3 Credits)**

A. Prerequisites: FMT 140 (C). Course demonstrates the biochemistry, genetics, and behavior of microorganisms for the production of fermented beverages. 2 Lec/ 3 Lab. Credit will not be awarded for both FMT 343 and 540.

**FMT 344. Chemical Analysis & Quality Control. (4 Credits)**

A. Prerequisite: FMT 140 (C) and ACT math score of 22+ or SAT math score of 530+ or MAT 112B (C) or higher. Course focuses on quality assurance and control (QA/QC) based on analysis using chemical and instrumental methods of initial feedstocks, water, and fermentation products. Analysis will be based in current industrial standards. 3Lec/ 3 Lab.

**FMT 345. Sensory Analysis. (2 Credits)**

Prerequisite: FMT 140 (C) and age requirement of 21 and over. Basic principles involved in sensory perception pertaining to neurochemistry and practical sensory experience with products generated from fermentation process. 1 LEC/2 LAB.

**FMT 349. Applied Learning in Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349A. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349B. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349C. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349D. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349E. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349F. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349G. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349H. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349I. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349J. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349K. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349L. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349M. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349N. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 495. Fermentation Research. (1-3 Credits)**

A. Prerequisites: FMT 340 (C) and departmental approval. Students concentrate on the objectives and techniques of fermentation science research to address a variety of issues / problems in all aspects of the field. May be retaken to a maximum of six hours but only three hours can count towards a degree. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. 3–9 Lab.

**FMT 501A. Special Topics in Fermentation:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 501B. Special Topics in Fermentation:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 501C. Special Topics in Fermentation:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 501D. Special Topics in Fermentation:\_\_\_ (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 549. Fermentation Project Lab. (2 Credits)**

Prerequisites: Senior standing, FMT 343 (C), and 344 (C). Age requirement (>21 years). Course to perform an independent capstone project where students will decide on the process to make a final fermentation product. Complete analysis of the product will also be performed at different stages of production. 1 Lec / 3 Lab.

**Forensic Science****FOR 301. Introduction to Forensic Science. (3 Credits)**

A. Introduction to the application of scientific methods for the examination of physical evidence in the criminal justice system; an overview of the forensic analysis of firearms, fingerprints, drugs, blood, hair, fibers, paint, glass, arson debris, etc.

**FOR 310. Training for Forensic Internships. (1 Credit)**

(1) A. Prerequisite: Junior or Senior Standing in Forensic Science. This course provides the student guidance in the preparation for an internship and explains the forensic internship application process.

**FOR 330. Bloodstain Pattern Analysis. (1 Credit)**

Prerequisite: FOR 301 (C), BIO 111 (C), and CHE 361(C). Bloodstain Pattern Analysis focuses on the identification and examination of bloodstain patterns, effectively recreating and establishing the types of activities and mechanisms that produced them. Prepares students for further studies/career in forensic biology. (1 Lec/2 Lab). Credit will not be awarded to students who have credit for CHE 501: Bloodstain Pattern Analysis.

**FOR 349. Applied Learning in Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349A. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349B. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349C. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349D. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349E. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349F. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349G. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349H. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349I. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349J. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349K. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349L. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349M. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349N. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 401. Forensic Professional Practice. (1 Credit)**

I. Prerequisite or Corequisite: FOR 401. Introduces professional practices and expectation for the forensic scientist. Includes discussion of professional organizations, certification, ethics, QA/QC, accreditation, technical writing, data treatment and interpretation.

**FOR 411. Instrumental Analysis. (3 Credits)**

A. Cross-listed with CHE 425. Prerequisites: CHE 325, 325L, 362, 362L; PHY 132 (or 202); MAT 234 (C or better in each course). Prerequisite or co-requisite: CHE 411L. Fundamental principles of the operation and application of analytical instrumentation including spectroscopy, chromatography, electrochemistry, and mass spectrometry found throughout industrial, government, forensic, and/or research environments is presented. Credit will not be awarded for both FOR 411 and CHE 425.

**FOR 411L. Forensic Instrumental Lab. (1 Credit)**

A. Prerequisite: BIO 121 (C); Prerequisite or co-requisite: FOR 411. Lab component of FOR 411. Hands-on experience operating instrumentation most commonly used in forensic science and analytical laboratories, including spectroscopic and chromatographic techniques. Credit will not be awarded for both FOR 411L and CHE 425L. 3 Lab.

**FOR 412. Forensic Trace Evidence. (3 Credits)**

II. Prerequisites: FOR 411 (C) or CHE 425 (C), FOR 411L (C) or CHE 425L (C), FOR 451 (C), and FOR 451L (C). Prerequisite or Corequisite: FOR 412L. Introduction and the application of the instrumentation and techniques to analyze various types of trace and impression evidence.

**FOR 412L. Forensic Trace Evidence Lab. (1 Credit)**

II. Prerequisites: FOR 411 or CHE 425 (C), FOR 411L or CHE 425L (C), FOR 451 and FOR 451L. Prerequisite or Corequisite: FOR 412. Lab component of FOR 412. Use of microscopes and various instruments for examination of forensic trace evidence materials. 3 Lab.

**FOR 431. DNA Profiling. (3 Credits)**

A. Prerequisite: BIO 111(C). Prerequisite or corequisite: CHE 361(C). This course will include topics in forensic DNA profiling; sample collection, DNA extraction, DNA quantitation and amplification. Prepares students for further studies/ career in forensic/molecular biology. Laboratory FOR 431L is optional with this course. Credit will not be awarded for both FOR 331 and FOR 431.

**FOR 431L. DNA Profiling Lab. (1 Credit)**

A. Prerequisite: CHE 361(C). Prerequisite or co-requisite: FOR 431. Laboratory course of FOR 431. Provides practical experience in Forensic DNA profiling: sample collection, DNA extraction, DNA quantitation and amplification. Prepares students for further studies/career in forensic/ molecular biology. Credit will not be awarded for both FOR 331L and FOR 431L.

**FOR 432. Forensic Serology. (1 Credit)**

Prerequisite: FOR 301 (C), BIO 111 (C), CHE 361 (C) and STA 270 or 215. Forensic Serology sample collection, biological fluid identification, and report writing. Prepares students for further studies/career in forensic biology. (1 Lecture/2 Lab).

**FOR 442. Forensic Toxicology & Drugs. (3 Credits)**

(3) II. Formerly: FOR 430. Prerequisite: CHE 362. Study of the chemistry, biochemical activity, isolation and identification of drugs of forensic interest in biological materials. Credit will not be awarded to students who have credit for FOR 430.

**FOR 442L. Drugs & Toxicology Lab. (1 Credit)**

II. Prerequisites: FOR 411 (C) and 411L (C) or CHE 425 (C) and 425L (C); Prerequisites or Corequisite: FOR 442. Introduces techniques and instrumentation used for the chemical separation and analysis of drugs in both solid dosage and toxicological samples. 3 Lab.

**FOR 451. Forensic Microscopic Analysis. (2 Credits)**

I. Prerequisite or Corequisite: PHY 132 (or 202), MAT 234, and for 451L (C or better). Introduction to concepts of forensic microscopic analysis; identification and characterization of trace evidence, such as glass, hair, fiber, and soil. Only forensic major or minor can take this class.

**FOR 451L. Forensic Microscopy Lab. (1 Credit)**

I. Prerequisite or Corequisite: FOR 451. Laboratory component of FOR 451. Use of stereoscopes and polarizing light microscopes for examination of forensic materials. 3 Lab.

**FOR 460. Selected Topics in Forensic Science. (1-3 Credits)**

A. Prerequisite: instructor approval. Topics will be chosen from areas of current interest and may be retaken for credit when new topics are offered. Topics and credit will be announced prior to each offering.

**FOR 465. Expert Witness Testimony. (2 Credits)**

A. Prerequisite: FOR 411 with a "C" or better or departmental approval. Topics include the underlying theory and purpose for expert witness testimony, qualifications of scientific experts, ethical issues relating to expert witness testimony, and elements of expert witness discovery and courtroom testimony. Videotaping of testifying in mock testifying situations is also included. Credit will not be awarded to students who have credit for FOR 465W. 4 Lab.

**FOR 465W. Expert Witness Testimony. (3 Credits)**

A. Prerequisites: ENG 102 or ENG 105 (B) or HON 102 and either FOR 331 and 331L(C) or FOR 412 and 412L(C) or FOR 431 and 431L(C) or FOR 442 and 442L(C), INF 322, or departmental approval. Theory and purpose for expert witness testimony, qualifications of scientific experts, ethical issues, and practical aspects of expert witness discovery and courtroom testimony. Videotaping of testifying in mock testifying situations is also included. Credit will not be awarded for both FOR 465W and 465.

**FOR 490. Introduction to Research. (1-3 Credits)**

A. Prerequisite: CHE 111(C), 111L(C), BIO 111(C), or departmental approval. Instruction to laboratory research in one of the areas of forensic science. May be retaken to a maximum of six hours, but only three hours may be counted toward the major requirements. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**FOR 499. Forensic Science Capstone. (3 Credits)**

A. Prerequisites: Either FOR 331 and 311L(C), FOR 412 and 412L(C), or FOR 442 and 442L(C). Prerequisite or Corequisite: FOR 465 or 465W. Capstone experience that provides overview of the investigative process form collection of evidence at a mock crime scene, through analysis, data interpretation, and presentation of results in a mock courtroom setting. 2 Lec/3 Lab.

# Chemistry, Bachelor of Science with a Concentration in Biochemistry (ACS Certification) (B.S.)

## Program Requirements

CIP Code: 40.0501

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100C	Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Chemistry majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
CHE 411	Practicum	
CHE 495A	Independent Chemical Research	
CHE 495B	Chemistry Laboratory Independent Research: ____	
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab	
CED 499	Clinical VI: The Professional Semester	

### Major Requirements

#### Core Courses

CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 250	Descriptive Inorganic Chemistry	2
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	5
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3

### Concentrations

Students must select one of the following Concentrations: 8-26

Biochemistry	
Biochemistry (ACS Certification Optional)	52
Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
Chemistry	
Chemistry (ACS Certification Optional)	
Pre-Pharmacy	
Chemistry Teaching	

### Supporting Course Requirements

Choose from 9-49 hours of supporting courses

25 hours of Biochemistry	
29 hours of Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
9-17 hours of Chemistry	
33 hours of Pre-Pharmacy	
49 hours of Chemistry Teaching	

### Free Electives

Choose from 0-23 hours of free electives 0-23

**Total Hours 123-164**

## Concentration

This program option produces a degree certified by the American Chemical Society (ACS) and follows the recommendation from the American Society for Biochemistry and Molecular Biology (ASBMB).

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 385W	Chemical Literature	3
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab	4
CHE 431	Metabolic Biochemistry	3
CHE 432	Biochemistry Laboratory	1
CHE 450	Inorganic Chemistry	3
CHE 485	Chemistry Seminar	1
CHE 502	Polymers & Particles	1
CHE 570	Biophysical Chemistry I	4
Choose from one hour of the following: 1		
CHE 411	Practicum	
CHE 495A	Independent Chemical Research <sup>1</sup>	
CHE 495B	Chemistry Laboratory Independent Research: ____ <sup>1</sup>	

CHE 501L	Chemtopics Lab:___	
	Choose from five hours of either 400- or 500-level CHE or FOR electives	5
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab	5
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 531	Principles of Molecular Biology	4
MAT 234	Calculus I (Element 2) <sup>G,2</sup>	
MAT 244	Calculus II	4
Choose from one of the following:		
PHY 131	College Physics I (Element 4) <sup>G</sup>	
PHY 201	University Physics I (Element 4) <sup>G,3</sup>	
Choose from one of the following:		
PHY 132	College Physics II	5
PHY 202	University Physics II <sup>3</sup>	
<b>Total Hours</b>		<b>52</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

CHE 495A Independent Chemical Research and/or CHE 495B Chemistry Laboratory Independent Research: \_\_\_ (chemistry research) is recommended.

2

Preparatory courses in mathematics may be required before admission to MAT 122 Precalculus Mathematics or MAT 234 Calculus I.

3

Calculus based physics (PHY 201 University Physics I and PHY 202 University Physics II) is recommended by the ACS and ASBMB.

## Chemistry, Bachelor of Science with a Concentration in Biochemistry (B.S.)

### Program Requirements

CIP Code: 40.0501

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6

**Element 5**

A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3

**Element 6**

	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100C	Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Chemistry majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
CHE 411	Practicum	
CHE 495A	Independent Chemical Research	
CHE 495B	Chemistry Laboratory Independent Research: ___	
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab	
CED 499	Clinical VI: The Professional Semester	

**Major Requirements***Core Courses*

CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 250	Descriptive Inorganic Chemistry	2
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	5
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3

**Concentrations**

Students must select one of the following Concentrations:

Biochemistry	47
Biochemistry (ACS Certification Optional)	
Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
Chemistry	
Chemistry (ACS Certification Optional)	
Pre-Pharmacy	
Chemistry Teaching	

*Supporting Course Requirements*

Choose from 9-49 hours of supporting courses

25 hours of Biochemistry	
29 hours of Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
9-17 hours of Chemistry	
33 hours of Pre-Pharmacy	
49 hours of Chemistry Teaching	

*Free Electives*

Choose from 10-23 hours of free electives 10-23

**Total Hours 120-133**

## Concentration

This program option produces a degree certified by the American Chemical Society (ACS) and follows the recommendation from the American Society for Biochemistry and Molecular Biology (ASBMB).

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 385W	Chemical Literature	3
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab	4
CHE 431	Metabolic Biochemistry	3
CHE 432	Biochemistry Laboratory	1
CHE 450	Inorganic Chemistry	3
CHE 485	Chemistry Seminar	1
CHE 502	Polymers & Particles	1
CHE 570	Biophysical Chemistry I	4
Choose from one hour of the following:		1
CHE 411	Practicum	
CHE 495A	Independent Chemical Research <sup>1</sup>	
CHE 495B	Chemistry Laboratory Independent Research: ___ <sup>1</sup>	
CHE 501L	Chemtopics Lab: ___	
Choose from five hours of either 400- or 500-level CHE or FOR electives		5
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	4
BIO 112	Ecology and Evolution	4
BIO 315	Genetics	4
BIO 531	Principles of Molecular Biology	4
MAT 234	Calculus I (Element 2) <sup>G,2</sup>	
MAT 244	Calculus II	4
Choose from one of the following:		
PHY 131	College Physics I (Element 4) <sup>G</sup>	
PHY 201	University Physics I (Element 4) <sup>G,3</sup>	
Choose from one of the following:		5
PHY 132	College Physics II	
PHY 202	University Physics II <sup>3</sup>	
<b>Total Hours</b>		<b>47</b>

## G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

CHE 495A Independent Chemical Research and/or CHE 495B Chemistry Laboratory Independent Research: \_\_\_ (chemistry research) is recommended.

2

Preparatory courses in mathematics may be required before admission to MAT 122 Precalculus Mathematics or MAT 234 Calculus I.

3

Calculus based physics (PHY 201 University Physics I and PHY 202 University Physics II) is recommended by the ACS and ASBMB.

# Chemistry, Bachelor of Science with a Concentration in Chemistry (ACS Certification) (B.S.)

## Program Requirements

CIP Code: 40.0501

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100C	Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		

ACCT - Chemistry majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

Choose from one of the following:

CHE 411	Practicum	
CHE 495A	Independent Chemical Research	
CHE 495B	Chemistry Laboratory Independent Research: ____	
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab	
CED 499	Clinical VI: The Professional Semester	

### Major Requirements

#### Core Courses

CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 250	Descriptive Inorganic Chemistry	2
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	5
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3

#### Concentrations

Students must select one of the following Concentrations:

Biochemistry	
Biochemistry (ACS Certification Optional)	
Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
Chemistry	
Chemistry (ACS Certification Optional)	48
Pre-Pharmacy	
Chemistry Teaching	

#### Supporting Course Requirements

Choose from 9-49 hours of supporting courses

25 hours of Biochemistry	
29 hours of Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
9-17 hours of Chemistry	
33 hours of Pre-Pharmacy	
49 hours of Chemistry Teaching	

#### Free Electives

Choose from 9-23 hours of free electives 9-23

**Total Hours 120-134**

### Concentration

With all specified courses, this program option produces a degree certified by the American Chemical Society (ACS).

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 385W	Chemical Literature	3
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab	4

CHE 450	Inorganic Chemistry	3
CHE 485	Chemistry Seminar	1
CHE 502	Polymers & Particles	1
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab	5
CHE 574 & 574L	Physical Chemistry I and Physical Chemistry Lab I	4
CHE 575 & 575L	Physical Chemistry II and Physical Chemistry Lab II	4

#### Supporting Course Requirements

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
MAT 234	Calculus I (Element 2) <sup>G,1</sup>	
PHY 131	College Physics I (Element 4) <sup>G</sup>	
	or PHY 201 University Physics I	
PHY 132	College Physics II	5
	or PHY 202 University Physics II	
PHY 201	University Physics I	5
PHY 202	University Physics II	5
MAT 244	Calculus II	4
MAT 254	Calculus III	4

**Total Hours 48**

#### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

Preparatory courses in mathematics may be required before admission to MAT 122 Precalculus Mathematics or MAT 234 Calculus I.

At least 3 hours of CHE 495A Independent Chemical Research and/or CHE 495B Chemistry Laboratory Independent Research: \_\_\_\_ (chemistry research) is recommended.

## Chemistry, Bachelor of Science with a Concentration in Chemistry (B.S.)

### Program Requirements

CIP Code: 40.0501

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3

B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100C	Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Chemistry majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
CHE 411	Practicum	
CHE 495A	Independent Chemical Research	
CHE 495B	Chemistry Laboratory Independent Research: ____	
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab	
CED 499	Clinical VI: The Professional Semester	

### Major Requirements

#### Core Courses

CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 250	Descriptive Inorganic Chemistry	2
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	5
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3

### Concentrations

Students must select one of the following Concentrations:

Biochemistry	
Biochemistry (ACS Certification Optional)	
Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
Chemistry	30
Chemistry (ACS Certification Optional)	
Pre-Pharmacy	
Chemistry Teaching	
<i>Supporting Course Requirements</i>	
Choose from 9-49 hours of supporting courses	
25 hours of Biochemistry	

29 hours of Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)

9-17 hours of Chemistry

33 hours of Pre-Pharmacy

49 hours of Chemistry Teaching

#### Free Electives

Choose from 27 hours of free electives	27
<b>Total Hours</b>	<b>120</b>

## Concentration

With all specified courses, this program option produces a degree certified by the American Chemical Society (ACS).

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 385W	Chemical Literature	3
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab	4
CHE 450	Inorganic Chemistry	3
CHE 485	Chemistry Seminar	1
CHE 570	Biophysical Chemistry I	4
Choose from one hour of the following:		
CHE 411	Practicum	1
CHE 432	Biochemistry Laboratory	
CHE 495A	Independent Chemical Research	
CHE 495B	Chemistry Laboratory Independent Research: ____	
CHE 501L	Chemtopics Lab: ____	
or CHE 502	Polymers & Particles	
Choose from nine hours of either 400- or 500-level CHE or FOR electives		
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
MAT 234	Calculus I (Element 2) <sup>G,1</sup>	
PHY 131	College Physics I (Element 4) <sup>G</sup>	
or PHY 201	University Physics I	
PHY 132	College Physics II	5
or PHY 202	University Physics II	
<b>Total Hours</b>		<b>30</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

Preparatory courses in mathematics may be required before admission to MAT 122 Precalculus Mathematics or MAT 234 Calculus I.

# Chemistry, Bachelor of Science with a Concentration in Chemistry Teaching (B.S.)

## Program Requirements

CIP Code: 40.0501

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
SCO 100C	Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Chemistry majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
CHE 411	Practicum	
CHE 495A	Independent Chemical Research	
CHE 495B	Chemistry Laboratory Independent Research: ____	
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab	
CED 499	Clinical VI: The Professional Semester	

### Major Requirements

#### Core Courses

CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 250	Descriptive Inorganic Chemistry	2
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	5
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4

CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3

### Concentrations

Students must select one of the following Concentrations:

Biochemistry		
Biochemistry (ACS Certification Optional)		
Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)		
Chemistry		
Chemistry (ACS Certification Optional)		
Pre-Pharmacy		
Chemistry Teaching		50
<i>Supporting Course Requirements</i>		
Choose from 9-49 hours of supporting courses		
25 hours of Biochemistry		
29 hours of Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)		
9-17 hours of Chemistry		
33 hours of Pre-Pharmacy		
49 hours of Chemistry Teaching		

### Free Electives

Choose from 7-23 hours of free electives 7-23

**Total Hours** **120-136**

## Concentration

Following this curriculum and passing the appropriate standardized teacher exams will lead to certification to teach chemistry at the secondary education level. The student must meet the 2.75 GPA requirement listed in the College of Education section under The Office of Teacher Education Services.

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 570	Biophysical Chemistry I	4
Choose from four hours of either 400- or 500-level CHE or FOR courses <sup>1</sup>		
<i>Supporting Course Requirements</i>		
(Must also complete all Professional Education Requirements)		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
	or BIO 112 Ecology and Evolution	
GLY 109	Great Moments in Earth History (Element 4) <sup>G</sup>	
MAT 234	Calculus I (Element 2) <sup>G,2</sup>	
PHY 131	College Physics I (Element 4) <sup>G</sup>	
	or PHY 201 University Physics I	
PHY 132	College Physics II	5
	or PHY 202 University Physics II	
<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3

EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	3
ESE 561	Teaching Science in Secondary School	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
<b>Clinical Experiences:</b>		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9

**Exit Requirements****PRAXIS Examination**

Appropriate PRAXIS exams must be completed for each area of certificate on being recommended.

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

**Total Hours** **50**

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

If CHE 495A Independent Chemical Research and/or CHE 495B Chemistry Laboratory Independent Research: \_\_\_ is taken, only three hours can be applied to the major.

2

Preparatory courses in mathematics may be required before admission to MAT 122 Precalculus Mathematics or MAT 234 Calculus I.

## Chemistry, Bachelor of Science with a Concentration in Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate) (B.S.)

### Program Requirements

CIP Code: 40.0501

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6

<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100C	Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Chemistry majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
CHE 411	Practicum	
CHE 495A	Independent Chemical Research	
CHE 495B	Chemistry Laboratory Independent Research: ___	
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab	
CED 499	Clinical VI: The Professional Semester	

#### Major Requirements

##### Core Courses

CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 250	Descriptive Inorganic Chemistry	2
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	5
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3

##### Concentrations

Students must select one of the following Concentrations:

Biochemistry	
Biochemistry (ACS Certification Optional)	
Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	44
Chemistry	
Chemistry (ACS Certification Optional)	
Pre-Pharmacy	
Chemistry Teaching	

##### Supporting Course Requirements

Choose from 9-49 hours of supporting courses

25 hours of Biochemistry	
29 hours of Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
9-17 hours of Chemistry	
33 hours of Pre-Pharmacy	
49 hours of Chemistry Teaching	

*Free Electives*

Choose from 13-23 hours of free electives	13-23
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**Total Hours** **120-130**

## Concentration

This program option produces a degree certified by the American Chemical Society (ACS) and follows the recommendation from the American Society for Biochemistry and Molecular Biology (ASBMB).

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 385W	Chemical Literature	3
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab	4
CHE 431	Metabolic Biochemistry	3
CHE 432	Biochemistry Laboratory	1
CHE 450	Inorganic Chemistry	3
CHE 485	Chemistry Seminar	1
CHE 502	Polymers & Particles	1
CHE 570	Biophysical Chemistry I	4
Choose from one hour of the following:		
CHE 411	Practicum	1
CHE 495A	Independent Chemical Research <sup>1</sup>	
CHE 495B	Chemistry Laboratory Independent Research: ___ <sup>1</sup>	
CHE 501L	Chemtopics Lab: ___	
Choose from five hours of either 400- or 500-level CHE or FOR electives		
<i>Supporting Course Requirements</i>		
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution (Element 4) <sup>G</sup>	
BIO 307	Human Anatomy and Physiology I	3
BIO 331	Cell Biology	3
BIO 348	Vertebrate Physiology	4
MAT 234	Calculus I (Element 2) <sup>G,2,3</sup>	
PHI 383	Health & Biomedical Ethics	3
or PHI 383W	Health and Biomedical Ethics	
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
SOC 131	Introductory Sociology (Element 5B) <sup>G</sup>	
Choose from one of the following:		
PHY 131	College Physics I (Element 4) <sup>G</sup>	
PHY 201	University Physics I (Element 4) <sup>G,4</sup>	
Choose from one of the following:		
PHY 132	College Physics II	
PHY 202	University Physics II <sup>4</sup>	
<b>Total Hours</b>		<b>44</b>

## G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

CHE 495A Independent Chemical Research and/or CHE 495B Chemistry Laboratory Independent Research: \_\_\_ (chemistry research) is recommended.

2

Preparatory courses in mathematics may be required before admission to MAT 122 Precalculus Mathematics or MAT 234 Calculus I.

3

STA 270 Applied Statistics may be required for admission to some professional school programs.

4

Two semesters of Calculus are highly recommended, and Calculus based physics (PHY 201 University Physics I and PHY 202 University Physics II) is recommended by the ACS and ASBMB.

# Chemistry, Bachelor of Science with a Concentration in Pre-Pharmacy (B.S.)

## Program Requirements

CIP Code: 40.0501

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	

SCO 100C Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.) 1

Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Chemistry majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

Choose from one of the following:

CHE 411	Practicum
CHE 495A	Independent Chemical Research
CHE 495B	Chemistry Laboratory Independent Research: ____
CHE 515 & 515L	Synthetic & Analytical Methods and Synthetic & Analytical Methods Lab
CED 499	Clinical VI: The Professional Semester

### Major Requirements

#### Core Courses

CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 250	Descriptive Inorganic Chemistry	2
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	5
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3

### Concentrations

Students must select one of the following Concentrations:

Biochemistry	
Biochemistry (ACS Certification Optional)	
Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
Chemistry	
Chemistry (ACS Certification Optional)	
Pre-Pharmacy	47
Chemistry Teaching	

#### Supporting Course Requirements

Choose from 9-49 hours of supporting courses

25 hours of Biochemistry	
29 hours of Pre-Health (Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Associate)	
9-17 hours of Chemistry	
33 hours of Pre-Pharmacy	
49 hours of Chemistry Teaching	

#### Free Electives

Choose from 10-23 hours of free electives 10-23

**Total Hours 120-133**

## Concentration

Code	Title	Hours
------	-------	-------

### Concentration Courses

CHE 385W	Chemical Literature	3
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab	4
CHE 450	Inorganic Chemistry	3
CHE 431	Metabolic Biochemistry	3
CHE 432	Biochemistry Laboratory	1
CHE 485	Chemistry Seminar	1
CHE 570	Biophysical Chemistry I	4
Choose from three hours of the following:		3

CHE 349	Applied Learning in Chemistry	
CHE 349	Applied Learning in Chemistry (A-N)	
CHE 495A	Independent Chemical Research	
CHE 495B	Chemistry Laboratory Independent Research: ____	

### Supporting Course Requirements

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution (Element 4) <sup>G</sup>	
BIO 307	Human Anatomy and Physiology I	3
BIO 273 or BIO 320	Clinical Microbiology or Principles of Microbiology	4
BIO 308	Human Anatomy and Physiology II	3
ECO 230	Fundamentals of Microeconomics	3
MAT 234	Calculus I (Element 2) <sup>G,1</sup>	
PHI 383 or PHI 383W	Health & Biomedical Ethics or Health and Biomedical Ethics	3
PHY 131 or PHY 201	College Physics I (Element 4) <sup>G</sup> or University Physics I	
PHY 132 or PHY 202	College Physics II or University Physics II	5
PSY 200	Introduction to Psychology (Element 5B) <sup>G</sup>	
STA 270	Applied Statistics	4
<b>Total Hours</b>		<b>47</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

### 1

Preparatory courses in mathematics may be required before admission to MAT 122 Precalculus Mathematics or MAT 234 Calculus I.

## Chemistry/Teaching, Minor Program Requirements

Code	Title	Hours
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### Required Courses

CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4

Choose from six hours of the following: <sup>1</sup> 6

CHE 250	Descriptive Inorganic Chemistry (must include)
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II
CHE 430	Biochemistry of Macromolecules
CHE 450	Inorganic Chemistry
CHE 501	Chemtopics: _____
CHE 520	Mass Spectrometry
CHE 570	Biophysical Chemistry I

**Total Hours** 18

1

See Course Descriptions for prerequisite and corequisite requirements.

## Teaching Certification for Chemistry Minor

The previously described minor in chemistry must include CHE 250 Descriptive Inorganic Chemistry and be coupled with a secondary teaching certificate in another discipline to qualify students to teach chemistry at the secondary level. Students enrolled in a teaching program other than science who desire teaching certification in chemistry will be required to take ESE 561 Teaching Science in Secondary School. Please note the chemistry minor GPA must be 2.75 or greater, and student teaching in chemistry is required.

The minor cannot be recommended until the secondary teaching program is completed and a recommendation for certification has been processed. Appropriate PRAXIS exams must be completed for each area of certification being recommended.

### PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

## Fermentation Science, University Certificate

### Program Requirements

A student may complete a long-term (university) certificate in fermentation science by completing the following requirements:

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i> <sup>1</sup>		
FMT 140	Introduction to Fermentation	4
FMT 343	Fermentation Microbiology	3
FMT 344	Chemical Analysis & Quality Control	4
FMT 345	Sensory Analysis	2
<i>Electives</i>		

Choose from 11 hours of the following: <sup>1,2</sup> 11

- CHE 349 Applied Learning in Chemistry <sup>2</sup>  
or FMT 349 Applied Learning in Fermentation Science

FMT 349	Applied Learning in Fermentation Science (A-N) <sup>2</sup>
FMT 495	Fermentation Research (A-B) <sup>2</sup>
FMT 501A	Special Topics in Fermentation:___
FMT 501B	Special Topics in Fermentation:___
FMT 501C	Special Topics in Fermentation:___
FMT 501D	Special Topics in Fermentation:___
FMT 549	Fermentation Project Lab
BIO 111	Cell and Molecular Biology
AGR 130	Plant Science
AGR 131	Plant Science Laboratory
AGR 430	Field Crop Production
EHS 280	One Health: Global Environmental Public Health
EHS 380	Food Security and Sanitation
OSH 110	Introduction to Safety Studies
Or Department approved courses	
Choose from one of the following:	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab
CHE 111 & 111L	General Chemistry and General Chemistry Lab I

**Total Hours** 24

1

See Course Descriptions for prerequisite and corequisite requirements.

2

If CHE 349 Applied Learning in Chemistry or FMT 349 Applied Learning in Fermentation Science, FMT 349 Applied Learning in Fermentation Science (A-N) and/or FMT 495 Fermentation Research is taken, only three hours can be applied to the certificate.

## Fermentation, Departmental Certificate

### Program Requirements

A student may complete a short-term (Departmental) certificate in Fermentation by taking the following requirements:

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i> <sup>1</sup>		
FMT 140	Introduction to Fermentation	4
FMT 343	Fermentation Microbiology	3
FMT 344	Chemical Analysis & Quality Control	4
FMT 345	Sensory Analysis	2
<b>Total Hours</b>		<b>13</b>

1

See Course Descriptions for prerequisite and corequisite requirements.

# Forensic Science, Bachelor of Science with a Concentration in Forensic Biology (B.S.)

The Forensic Science degree program at EKU is a comprehensive science-based undergraduate education that prepares students to become leaders in the forensic science discipline. Forensic analytical work requires patience and diligence, with attention to detail and high-quality standards that will stand up in court. A forensic scientist must be able to communicate effectively, both orally and in writing, have personal integrity and high ethical standards, and have no history of drug abuse or criminal activity. Because the program provides a strong knowledge base and skill set in both molecular biology and analytical chemistry, graduates can also pursue careers in a variety of laboratory settings in industry, academic research labs, environmental work, or pharmaceutical science.

The program offers two options:

1. Forensic Chemistry and
2. Forensic Biology.

The Forensic Chemistry option of the Forensic Science degree prepares analysts to use analytical chemistry to examine evidence in the crime laboratory. Forensic Chemistry graduates will typically work in trace evidence, toxicology, drug identification, or firearm sections of the crime laboratory. The Forensic Biology option of the Forensic Science degree prepares students to work in areas of a forensic laboratory requiring a knowledge of genetics, molecular biology, and analytical chemistry. The forensic biologist applies scientific knowledge and skills to solve complex real-life problems in DNA analysis in support of investigative work. Forensic Biology graduates will typically work in the DNA/serology sections of the forensic laboratory.

## Admission/Progression Criteria

All forensic science majors utilize the regular admission policy of the University for students taking courses offered during the first 60 earned hours of the program. In order to continue in the program after 60 earned hours, the student must maintain an overall earned GPA of 2.50 or better on a 4.0 scale. Students who fail to meet this criterion will be removed from the Forensic Science degree program and placed in the B.S. Chemistry, Chemistry Option, degree program.

## Program Requirements

CIP Code: 40.0510

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		

Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

- Forensic science majors have a graduation requirement of an overall earned GPA of 2.75/4.0 or better.
- The curriculum below produces a degree that meets the guidelines for accreditation by the Forensic Science Education Programs Accreditation Commission (FEPAC) of the American Academy of Forensic Science (AAFS).

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100C	Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Forensic Science majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
FOR 499	Forensic Science Capstone	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3
FOR 301	Introduction to Forensic Science	3
FOR 401	Forensic Professional Practice	1
FOR 431	DNA Profiling	3
FOR 451 & 451L	Forensic Microscopic Analysis and Forensic Microscopy Lab	3
FOR 465W	Expert Witness Testimony	3
FOR 499	Forensic Science Capstone	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		28
Forensic Chemistry		
Forensic Biology		
<i>Supporting Course Requirements</i>		

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution	4
MAT 234	Calculus I (C or better) (Element 2) <sup>G</sup>	
PHY 131	College Physics I (Element 4) <sup>G</sup>	
or PHY 201	University Physics I	
PHY 132	College Physics II	5
or PHY 202	University Physics II	
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	
<i>Free Electives</i>		
Choose from 8-9 hours of free electives		8-9
<b>Total Hours</b>		<b>120-122</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
BIO 315	Genetics	4
BIO 320	Principles of Microbiology	4
BIO 331	Cell Biology	3
BIO 531	Principles of Molecular Biology	4
CHE 432	Biochemistry Laboratory	1
FOR 330	Bloodstain Pattern Analysis	1
FOR 431L	DNA Profiling Lab	1
FOR 432	Forensic Serology	1
<i>Electives</i>		
Choose from nine hours of the following:		9
ANT 306	Human Evolution	
ANT 380	Forensic Anthropology	
ANT 385	Human Osteology	
BIO 307	Human Anatomy and Physiology I	
BIO 308	Human Anatomy and Physiology II	
BIO 348	Vertebrate Physiology	
BIO 527	Immunology	
BIO 528	Virology	
BIO 533	Bioinformatics: Principles and Applications	
BIO 535	Pathogenic Microbiology	
BIO 546	Histology	
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	
CHE 431	Metabolic Biochemistry	
CHE 501	Chemtopics: _____	
CHE 501L	Chemtopics Lab:____	
CHE 520	Mass Spectrometry	
FOR 310	Training for Forensic Internships	
FOR 349	Applied Learning in Forensic Science (highly recommended) <sup>†</sup>	
FOR 412 & 412L	Forensic Trace Evidence and Forensic Trace Evidence Lab	
FOR 442 & 442L	Forensic Toxicology & Drugs and Drugs & Toxicology Lab	

FOR 460	Selected Topics in Forensic Science
FOR 490	Introduction to Research
PLS 316	Criminal Evidence
Choose from one of the following:	
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab
FOR 411 & 411L	Instrumental Analysis and Forensic Instrumental Lab
<b>Total Hours</b>	<b>28</b>

**1**

The internship (FOR 349 Applied Learning in Forensic Science) in a forensic science laboratory is an elective but highly recommended. Students interested in internship must complete FOR 310 Training for Forensic Internships before FOR 349 Applied Learning in Forensic Science.

## Forensic Science, Bachelor of Science with a Concentration in Forensic Chemistry (B.S.)

The Forensic Science degree program at EKU is a comprehensive science-based undergraduate education that prepares students to become leaders in the forensic science discipline. Forensic analytical work requires patience and diligence, with attention to detail and high-quality standards that will stand up in court. A forensic scientist must be able to communicate effectively, both orally and in writing, have personal integrity and high ethical standards, and have no history of drug abuse or criminal activity. Because the program provides a strong knowledge base and skill set in both molecular biology and analytical chemistry, graduates can also pursue careers in a variety of laboratory settings in industry, academic research labs, environmental work, or pharmaceutical science.

The program offers two options:

1. Forensic Chemistry and
2. Forensic Biology.

The Forensic Chemistry option of the Forensic Science degree prepares analysts to use analytical chemistry to examine evidence in the crime laboratory. Forensic Chemistry graduates will typically work in trace evidence, toxicology, drug identification, or firearm sections of the crime laboratory. The Forensic Biology option of the Forensic Science degree prepares students to work in areas of a forensic laboratory requiring a knowledge of genetics, molecular biology, and analytical chemistry. The forensic biologist applies scientific knowledge and skills to solve complex real-life problems in DNA analysis in support of investigative work. Forensic Biology graduates will typically work in the DNA/serology sections of the forensic laboratory.

## Admission/Progression Criteria

All forensic science majors utilize the regular admission policy of the University for students taking courses offered during the first 60 earned hours of the program. In order to continue in the program after 60 earned hours, the student must maintain an overall earned GPA of 2.50 or better on a 4.0 scale. Students who fail to meet this criterion will be removed from the Forensic Science degree program and placed in the B.S. Chemistry, Chemistry Option, degree program.

## Program Requirements

CIP Code: 40.0510

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

- Forensic science majors have a graduation requirement of an overall earned GPA of 2.75/4.0 or better.
- The curriculum below produces a degree that meets the guidelines for accreditation by the Forensic Science Education Programs Accreditation Commission (FEPAC) of the American Academy of Forensic Science (AAFS).

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100C	Student Success Seminar in Chemistry (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Forensic Science majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
FOR 499	Forensic Science Capstone	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4

CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	4
CHE 430	Biochemistry of Macromolecules	3
FOR 301	Introduction to Forensic Science	3
FOR 401	Forensic Professional Practice	1
FOR 431	DNA Profiling	3
FOR 451 & 451L	Forensic Microscopic Analysis and Forensic Microscopy Lab	3
FOR 465W	Expert Witness Testimony	3
FOR 499	Forensic Science Capstone	3

#### Concentrations

Students must select one of the following Concentrations: 28

Forensic Chemistry

Forensic Biology

#### Supporting Course Requirements

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution	4
MAT 234	Calculus I (C or better) (Element 2) <sup>G</sup>	
PHY 131	College Physics I (Element 4) <sup>G</sup>	
	or PHY 201 University Physics I	
PHY 132	College Physics II	5
	or PHY 202 University Physics II	
STA 215	Introduction to Statistical Reasoning	3-4
	or STA 270 Applied Statistics	

#### Free Electives

Choose from 8-9 hours of free electives 8-9

**Total Hours** 120-122

#### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
CHE 325 & 325L	Analytical Chemistry and Analytical Chemistry Lab	5
CHE 520	Mass Spectrometry	3
CHE 570	Biophysical Chemistry I	4
Choose from one of the following:		4
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab	
FOR 411 & 411L	Instrumental Analysis and Forensic Instrumental Lab	
FOR 412 & 412L	Forensic Trace Evidence and Forensic Trace Evidence Lab	4
FOR 442 & 442L	Forensic Toxicology & Drugs and Drugs & Toxicology Lab	4
<i>Electives</i>		
Choose from four hours of the following:		4
CHE 349	Applied Learning in Chemistry <sup>1</sup>	
CHE 349	Applied Learning in Chemistry (A-N) <sup>1</sup>	
CHE 432	Biochemistry Laboratory	
CHE 450	Inorganic Chemistry	

CHE 501	Chemtopics: _____
CHE 501L	Chemtopics Lab:____
FOR 310	Training for Forensic Internships
FOR 330	Bloodstain Pattern Analysis
FOR 431L	DNA Profiling Lab
FOR 349	Applied Learning in Forensic Science (highly recommended) <sup>1</sup>
FOR 431L	DNA Profiling Lab
FOR 460	Selected Topics in Forensic Science
FOR 490	Introduction to Research
FSE 350	Fire Arson and Explosion Investigation
FSE 380	Failure Analysis
PLS 316	Criminal Evidence
<b>Total Hours</b>	<b>28</b>

1

The internship (FOR 349 Applied Learning in Forensic Science) in a forensic science laboratory is an elective but highly recommended. Students interested in internship must complete FOR 310 Training for Forensic Internships Training for Forensic Internship before FOR 349 Applied Learning in Forensic Science.

## Forensic Science, Minor

### Program Requirements

The minor in Forensic Science requires a minimum of 18 credit hours as indicated below:

Code	Title	Hours
<b>Required Courses</b>		
<i>Core Courses</i>		
FOR 301	Introduction to Forensic Science	3
FOR 330	Bloodstain Pattern Analysis	1
FOR 401	Forensic Professional Practice	1
FOR 460	Selected Topics in Forensic Science	3
<i>Electives</i>		
Choose from ten hours of the following:		10
FSE 250	Introduction to Explosion Investigations and Bombings	
PLS 220	Criminal Investigation	
PLS 316	Criminal Evidence	
CHE 425 & 425L	Instrumental Analysis and Instrumental Analysis Lab <sup>1</sup>	
FOR 411 & 411L	Instrumental Analysis and Forensic Instrumental Lab <sup>1</sup>	
FOR 412 & 412L	Forensic Trace Evidence and Forensic Trace Evidence Lab	
FOR 431 & 431L	DNA Profiling and DNA Profiling Lab	
FOR 432	Forensic Serology	
FOR 442 & 442L	Forensic Toxicology & Drugs and Drugs & Toxicology Lab	
FOR 451 & 451L	Forensic Microscopic Analysis and Forensic Microscopy Lab	
FOR 465W	Expert Witness Testimony	

FOR 490	Introduction to Research
FOR 499	Forensic Science Capstone
<b>Total Hours</b>	<b>18</b>

1

Courses are cross-listed. Credit will only be awarded to one Lecture/Lab grouping.

## Department of Computer Science and Information Technology

### Chair

Dr. Kuang-nan Chang  
(859) 622-2398  
Wallace 417

### Faculty

R. Bai, C. Bragg, V. Chandra, K. Chang, E. Kim, L. Kong, E. Styer, K. Wong, M. Yang, and S. Zhang

### Bachelor's

- Computer Science, Bachelor of Science with a Concentration in Artificial Intelligence in Data Science (B.S.) (p. 520)
- Computer Science, Bachelor of Science with a Concentration in Computer Science (General) (B.S.) (p. 522)
- Computer Science, Bachelor of Science with a Concentration in Computer Technology (B.S.) (p. 523)
- Computer Science, Bachelor of Science with a Concentration in Interactive Multimedia (B.S.) (p. 524)
- Cyber Systems Technology, Bachelor of Science with a Concentration in Network Security and Electronics (B.S.) (p. 529)
- Cyber Systems Technology, Bachelor of Science with a Concentration in Tech Systems (B.S.) (p. 530)
- Digital Forensics and Cybersecurity, Bachelor of Science (B.S.) (p. 531)

### Accelerated

- Cyber Systems Technology, Bachelor of Science (B.S.) & Technology Management Master of Science (M.S.) [Cyber Systems Tech Security Concentration] Accelerated 3+2 Dual Degree Program (p. 526)
- Cyber Systems Technology, Bachelor of Science (B.S.) & Technology Management Master of Science (M.S.) [Tech Systems Concentration] Accelerated 3+2 Dual Degree Program (p. 527)

### Minor

- Computer Electronics Technology, Minor (p. 520)
- Computer Science, Minor (p. 525)
- Cybersecurity and Intelligence, Minor (p. 531)
- Game Content Design, Minor (p. 533)
- Informatics, Minor (p. 533)

### Certificate

- Artificial Intelligence in Data Science, Departmental Certificate (p. 520)
- Cyber Security and Digital Forensics, Certificate (p. 526)

- Cyber Systems and Network Security, Certificate (p. 526)
- Game Design, Certificate (p. 533)
- Informatics, Certificate (p. 533)

## Courses

### Computer Science

#### CSC 101. The World of Code. (3 Credits)

A. Prerequisite: Completion of all academic readiness requirements. Introduction to computational thinking through the exploration of code, its place in our lives, and the use of code for problem-solving. A beginning programming language will be used to explore key coding concepts such as making decisions and repetition.

#### CSC 140. Introduction to Computer Game Design. (3 Credits)

I, II. Prerequisite: a grade of "C" or higher in both CSC 185 and CSC 190. Introduction to computer game design, frame based animation, sound effects, program logic, game scripting, and object oriented programming.

#### CSC 160. Introduction to Web Programming. (3 Credits)

A. Prerequisite: MAT 112 A/B or higher with a grade of "C" or higher, or a minimum score of 22 on the mathematics portion of the ACT, or a minimum score of 530 on the math portion of the SAT, or a passing grade of the math Algebra placement test. Introduction to problem solving with computers and the Internet using an appropriate programming language. Basic concepts include data types, objects, control structures, functions, and input/output features. Gen. Ed. VII (QS).

#### CSC 170. Intro to Game Programming. (3 Credits)

A. Prerequisite: MAT 112 or 112B or 114 with a grade of "C" or better, or Math ACT score of 23 or higher, or Math SAT score of 560 or higher. Introduction to game programming using Python. Programming concepts including data types, input/output, and control structures will be introduced through the construction of various types of 2-D games. 3 Lecture/Lab.

#### CSC 174. Introduction to Programming for Science & Engineering. (3 Credits)

I, II. Prerequisite: MAT 122 or higher with a minimum grade of C, a minimum score of 25 on the mathematics portion of the ACT, or a minimum score of 590 on the math portion of the SAT. Introductory programming for scientific and engineering applications, input/output, decision, loops, arrays, subroutines, functions, files and simulation. Gen. Ed. VII (QS).

#### CSC 177. Introduction to Visual Basic. (3 Credits)

I, II. Prerequisite: MAT 112 A/B or higher with a grade of "C", or a minimum score of 22 on the mathematics portion of the ACT, or a minimum score of 530 on the math portion of the SAT, or a passing score on a math Algebra placement test. Introduction to programming in the event driven/graphical programming language Visual Basic. Topics include forms, common controls/objects, coding, procedures, file management and developing Windows applications. Gen. Ed. VII (QS).

#### CSC 178. Introduction to \_\_\_\_\_. (1-3 Credits)

A. Prerequisite: Minimum ACT Math score of 19, Minimum SAT math score of 510, or completion of MAT 105 or higher with a "C" or higher grade. Introduction to selected topics in computer science. May be retaken to a maximum of nine hours, provided the topics are different.

#### CSC 185. Discrete Structures I. (3 Credits)

I, II. Prerequisite: MAT 122 or higher with a grade of "C" or higher, or a minimum score of 25 on the mathematics portion of the ACT, or a minimum score of 590 on the math portion of the SAT. Introduce basic mathematical structures and logical principles for computer science. Practice step-by-step problem solving in support of good algorithm design and verification practices. Topics include basic counting, sequences, series and recurrence relations.

#### CSC 189. Computing Concepts and Programming. (3 Credits)

(3) A. Prerequisite: MAT 122 or higher (minimum grade of C) or a minimum of 25 on the mathematics portion of the ACT or a minimum of 590 on the mathematics portion of the SAT. Introduction to the computing concepts and programming. Topics include numbering systems, computing system concepts, problem solving with computers using an object-oriented programming language. 2 Lec/2 Lab.

#### CSC 190. Object- Oriented Programming I. (3 Credits)

I, II. Prerequisite: MAT 122 or higher with a grade of "C" or higher, a minimum of 25 on the mathematics portion of the ACT or a minimum of 590 on the mathematics portion of the SAT. Introduction to problem solving with computers using an object-oriented programming language. Concepts include data types, input/output, classes, control structures, and arrays. 3 Lec/2 Lab. Gen. Ed. VII (QS).

#### CSC 191. Object- Oriented Programming II. (3 Credits)

I, II. Prerequisite: a minimum grade of "C" in both CSC 185 and CSC 190. Object-oriented programming, recursion, arrays, inheritance, file input/output, exception handling, multi-thread programming, GUI, object-oriented analysis and design. 3 Lec/2 Lab.

#### CSC 195. Discrete Structures II. (3 Credits)

I, II. Prerequisites: a minimum grade of "C" in both CSC 185 and CSC 190. Develop foundation and analysis technique in mathematical structures for computing. Topics include sets, relations, functions; logic; algorithm design/ analysis, recursive algorithms, recurrence relations, mathematical induction, counting, probability. 3 Lec/2 Lab.

#### CSC 210. Data Structures and Programming. (3 Credits)

(3) A. Prerequisite: A minimum grade of "C" in CSC 189 or CSC 190. Object-oriented programming, inheritance, arrays, stacks, queues, trees, hashing, recursions, and exception handling. 3 Lec/2 Lab.

#### CSC 250. Intro to Interactive Games/App. (3 Credits)

A. Prerequisite: CSC 190 with a minimum grade "C". Introduction to multimedia programming and scripting. Topics include frame-based animation, video editing, sound effects, program logic, and object-oriented programming. Credit will not be awarded to student who have credit for for CSC 140.

#### CSC 302. Introduction to System Environ. (3 Credits)

I, II. Prerequisite: CSC 191 with a minimum of grade of  $\geq C-\geq$ . Introduction to computer system environments, utilities, system programming, system administration, networking and operating systems.

#### CSC 306. Ethics for the Comput Profess. (3 Credits)

A. Prerequisite: CSC 191 with a minimum grade of  $\geq C-\geq$ . Responsibilities of the computing professional, social implications of computing, privacy, crime and abuse, risk and liabilities, copyright, and patents.

#### CSC 308. Mobile App Development for Apple iOS. (3 Credits)

Prerequisite: A minimum grade of "C" in CSC 191 and CSC 195 or in CSC 210. Introduction to developing mobile applications for Apple iOS. Topics include development tools, APIs, user interfaces, mobile-specific technologies and application design.

**CSC 309. Mobile App Dev for Android. (3 Credits)**

(3) A. Prerequisite: A minimum grade of "C" in CSC 191 and CSC 195 or in CSC 210. Introduction to developing mobile device web sites and applications for Android. Topics include development tools, APIs, user interfaces, mobile-specific technologies and application design.

**CSC 310. Data Structures. (3 Credits)**

I, II. Prerequisites: CSC 191 and CSC 195 with a minimum grade of C in both. The application and implementation of data structures including arrays, stacks, queues, linked lists, and trees. Internal searching and sorting techniques. The analysis of algorithms.

**CSC 311. Algorithms I. (3 Credits)**

A. Prerequisites: CSC 191, CSC 195, and MAT 234 or MAT 234H with a grade of "C" or better in all three courses. Logic and proof, mathematical induction; order of magnitude, recurrence, relations, analysis of recursive algorithms; Boolean algebra and logic networks, networks for adding, merging and sorting; matrices; finite state machines, push-down automata, linear bound automata, Turing machines; formal languages.

**CSC 312. File Processing. (3 Credits)**

I, II. Prerequisite: CSC 310 with a minimum grade of C. File organization and file storage devices. Topics include external sorting, sequential file processing, hashing, B+ trees, and introduction to databases.

**CSC 313. Database Systems. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 191 and CSC 195 or in CSC 210. Introduction to databases, storage and retrieval of data, report generation, interface and application development, online queries, XML, multimedia database, and database security.

**CSC 315. 3D Modeling. (3 Credits)**

A. Prerequisite: CSC 191 and CSC 195 with a grade of "C" or better in both courses. An introduction to geometric representations in 3D. Topics include polygon and spline modeling, texture mapping, materials, 3D scanning, and topics in animation including character rigging.

**CSC 316. 3D Game Engine Design. (3 Credits)**

A. Prerequisite: A grade of "C" or higher in CSC 310. Introduction to 3D animation and programming. Topics include coordinate systems, vertices, lines, polygons, geometric objects, 3D models, motion control, and interaction design.

**CSC 320. Algorithms II. (3 Credits)**

A. Prerequisites: CSC 310 and 311 with a minimum grade of "C" in both courses. Fundamental algorithms required in computer science; algorithm design/analysis methods, graph algorithms, probabilistic and parallel algorithms, and computational models.

**CSC 330. System Environments & Networks. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 191 or in CSC 210. Introduction to computer system environments, utilities, system administration, and networking.

**CSC 332. Digital Storage Device Forensics. (3 Credits)**

A. Prerequisite: a minimum grade of "C" in CSC 210 or CSC 310. Introduction to digital storage forensics. Topics include digital investigation fundamentals, fundamentals of storage devices (hard disk, optical, flash, consumer electronics devices, and mobile devices), disk volume analysis, and file systems analysis (FAT/NTFS, Ext 2/3/4, UFS 1/2, HFS/HFS+/HFSX).

**CSC 338. Fundamentals of Cybersecurity. (3 Credits)**

Pre-requisite: A minimum grade of "C" in CSC 210 or CSC 310. This course discusses the fundamentals of cybersecurity. Topics include information security principles, network and Internet basics, hacker techniques, cybersecurity technologies, encryption, security policies, cyber terrorism and information warfare, cyber detective, digital forensics, cybersecurity engineering, and society security.

**CSC 340. Ethics & Software Engineering. (3 Credits)**

A. Prerequisite: CSC 310 and 313 with a minimum grade of "C" in both courses. Responsibilities of software professionals, social implications of software such as privacy, crime and abuse, risk and liabilities, copyright, and patents, software project planning, software requirements analysis, software design, and software testing.

**CSC 349. Applied Learning in Computer Science. (0.5-8 Credits)**

I, II; (1-6) SUMMER ONLY. Prerequisite: students must have successfully completed 30 semester hours of course work including six hours of Computer Science major courses. In addition, transfer students must have completed at least one semester of full-time course work at EKU. Work in placements related to academic studies. A maximum of three hours may be applied toward the Computer Science technology option degree only. Credit does not apply to general Computer Science major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment is required for each semester hour of academic credit. Credit may only be awarded in the semester in which the work is completed.

**CSC 349A. Cooperative Study: Computer Science. (0.5-8 Credits)**

I, II; (1-6) SUMMER ONLY. Prerequisite: students must have successfully completed 30 semester hours of course work including six hours of Computer Science major courses. In addition, transfer students must have completed at least one semester of full-time course work at EKU. Work in placements related to academic studies. A maximum of three hours may be applied toward the Computer Science technology option degree only. Credit does not apply to general Computer Science major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment is required for each semester hour of academic credit. Credit may only be awarded in the semester in which the work is completed.

**CSC 349B. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349C. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349D. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349E. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349F. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349G. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349H. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 350. Principles of Prog Languages. (3 Credits)**

I, II. Prerequisites: CSC 200 and 310 with a minimum grade of "C" in both courses. The principles used in the design and implementation of programming languages. Language descriptions, structural implementations, and specialized features of languages.

**CSC 360. Computer Org & Architecture. (3 Credits)**

(3) A. Prerequisite: CSC 191 with a minimum grade of "C" or CSC 210. Information representation, instruction set architecture, assembly language, instruction execution, basic processing units, input/output organization, memory and storage organization, overlap and pipeline processing, parallel processing, and performance evaluation. Credit will not be awarded for both CSC 360 and 370.

**CSC 390. Advanced Programming Techniques with \_\_\_\_\_. (3 Credits)**

A. Prerequisite: CSC 191, with a minimum grade of "C." Advanced programming with a selected programming language, with appropriate applications. May be taken to a maximum of six hours, provided the languages are different.

**CSC 400. Operating Systems. (3 Credits)**

I, II. Prerequisites: CSC 310 and 360 with a grade of "C" or higher in both courses. Overall structure of multiprogramming systems, details of addressing techniques, memory-management, file system design and management, traffic control, interprocess communication, system module design, interfaces.

**CSC 401. Network & System Programming. (3 Credits)**

A. Prerequisites: CSC 302, CSC 370 or EET 254. Technical programming in the UNIX and the Internet environments: shell scripts, TCP/IP, HTML, CGI, and JavaScript. Survey of Internet protocols.

**CSC 410. Cyber Networking and Security. (3 Credits)**

(3) A. Prerequisite: CSC 210 or CSC 310 with a minimum grade of "C". This course discusses the fundamentals of computer networking and cyber security. Topics include layered protocols of computer network, Internet architecture and applications, cyber security and defense technologies.

**CSC 440. Applied Software Engineering. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 340. Techniques and tools for software requirements, software design, software testing, and software project planning as a team project for majors in computer science.

**CSC 460. Computer Network & System Administration. (3 Credits)**

A. Prerequisite: A minimum grade of "C". in CSC 210 CSC 310. Introduction to the subject of computer networks and layered protocols, architecture of data communication systems, point-to-point networks, local networks, end-to-end protocols and internetworking, and server-side technology to create interactive web pages.

**CSC 490. Seminar in \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. For advanced students in computer science. Subject announced when offered. May be retaken to a maximum of 12 hours, provided that the topics are different.

**CSC 491. Game Design Capstone. (3 Credits)**

A. Prerequisite: CSC 140 and INF 391 with a grade of "C" or higher. Level design, storyboarding, character modeling, game scripting, game interface design, audio effects, marketing, and ethics. Students will work in groups to develop a computer game term project. May be retaken to a maximum of 6 hours.

**CSC 494. Innovative Problem Solving. (1-3 Credits)**

Prerequisite: Departmental approval. An individually developed project related to an innovative solution of a problem provided by the software industry. The result is to be presented in open forum. May be retaken to a maximum of 6 hours provided the topics are different.

**CSC 495. Independent Work. (1-3 Credits)**

I, II. Prerequisite: A grade of "C" or higher in ENG 102, 105 (B), or HON 102 and departmental approval. Directed study/ research on a problem or area chosen in consultation with the instructor. Final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of twelve hours.

**CSC 496. Senior Seminar. (1 Credit)**

Prerequisite: CSC 340 with a minimum grade of "C". Critically evaluate current issues in computer science and effectively communicate creative ideas with professionals to foster collaborative problem solving.

**CSC 499. CS Career Preparation. (1 Credit)**

A. Prerequisite: CSC 310 with a grade of "C" or better. Career preparation for students seeking internship or permanent jobs. Job search, resume creation, interview techniques for application of computer science positions. 2 Lec.

**CSC 507. Special Topics:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics vary with offering. May be retaken to a maximum of six times, with advisor approval, provided the topics are different.

**CSC 520. Multimedia System and Forensics. (3 Credits)**

A. Prerequisite: A minimum grade of "C". in CSC 210 CSC 310. Integration of multimedia technologies, signal processing and compression of images, audio, and video, multimedia forensics and message hiding.

**CSC 530. Programming and Data Structures. (3 Credits)**

A. Prerequisite: At least a "C" in CSC 190 and 191, or equivalent courses. The application and implementation of data structures including arrays, linked lists, stacks, queues, heaps, trees and graphs and their related algorithms, using an object-oriented programming language. Credit does not apply to the B.S. degree in Computer Science or the B.S. degree in Digital Forensics and Cybersecurity.

**CSC 535. Discrete Structures. (3 Credits)**

A. Prerequisite: MAT 112, 114 or equivalent. Corequisite: CSC 530. Logic, sets, functions, Boolean algebra, probability and their applications, number theory, recursion, math induction proofs with application of these topics to computer science.

**CSC 536. Incident Response I. (3 Credits)**

(3) A. Prerequisite: CSC 410 with a minimum grade of "C". This course discusses the details of various aspects of cybersecurity incident response. Topics include pre-incident preparation, incident detection and characterization, data collection and analysis, and remediation.

**CSC 537. Incident Response II. (3 Credits)**

(3) A. Prerequisite: CSC536 with a minimum grade of "C". This course discusses cybersecurity incident response in the context of various computing platforms. Topics include dead-box analysis, memory analysis, log analysis, and malware analysis in Windows, Linux and MacOS Systems.

**CSC 538. Computer Crime and Forensics. (3 Credits)**

A. Introductory course on computer crime and forensics. Computer criminal evidence collection, analysis and handling; computer forensics tools; data acquisition; digital evidence control; Windows and Linux systems investigation; email investigation; network forensics; computer forensic report writing.

**CSC 539. MAC Forensics. (3 Credits)**

(3) A. Prerequisite: INF 322. This course covers the basic knowledge and skills necessary to analyze MAC operating system artifacts for digital evidence recovery. The topics include: MAC OS overview, GPT partitioning system, MAC system acquisition, MAC directory structure and evidence, Property lists, User logon password recovery, Safari and Firefox artifacts, iChat artifacts, Apple mail analysis, and other related topics.

**CSC 541. Software Testing. (3 Credits)**

(3) A. Prerequisites: Senior standing and CSC 310 with a grade of "C" or higher. The purpose of this course is to study software testing process, methods, techniques and tools. Topics include black box testing, white box testing, integration testing, acceptance testing, regression testing, performance testing, stress testing, and testing of object-oriented software.

**CSC 542. Internet Forensics. (3 Credits)**

(A). Prerequisite: INF 322 with a minimum grade of "C". This course covers the basic knowledge and skills necessary to analyze Internet-based applications artifacts for digital evidence recovery. The topics include popular Web browsers, instant messengers, and social media apps.

**CSC 543. Windows Forensics. (3 Credits)**

(3) A. Prerequisite INF 322. This course covers the basic knowledge and skills necessary to analyze MS Windows operating system artifacts for digital evidence recovery. The topics include: Windows OS overview, System bitlocker, GPT file system, Windows Security Model, Windows registry, USB devices, Windows event logs, Windows recycle bin, and other related topics.

**CSC 544. Database Admin and Security. (3 Credits)**

Prerequisite: A minimum grade of "C". in CSC 210 or CSC 310. This course covers database management system concepts, database system architecture, installation and setup, data management, performance monitoring and tuning, backup and recovery, database security models and management, database auditing.

**CSC 545. Theory of Database Systems. (3 Credits)**

A. Prerequisite: A minimum grade of "C". in CSC 210 or CSC 310. Models and principles of information systems. Database languages. The logical and physical design as well as the implementation and use of database systems.

**CSC 546. Artificial Intelligence. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 210 or CSC 310 and STA 270. The use of programming languages to model concepts selected from artificial intelligence. The application of heuristics to problem solving. Perception and pattern recognition.

**CSC 547. Network Forensic and Investigation. (3 Credits)**

A. Prerequisites: Senior standing and CSC 400 with a grade of "C" or higher. Introduction to Windows network forensics. Topics include: Windows network structure; Windows password/authentication mechanisms; Windows ports and services; Live-analysis techniques; Windows registry structure and evidence; Forensic analysis of events logs; Network forensics tools and reporting.

**CSC 548. Personal Electronic Device Forensics. (3 Credits)**

A. Prerequisite: CSC 332 with a grade of "C" or higher. Introduction to personal electronic device forensics. Topics include architecture, functionality, operating systems implementation of PEDs (cell phones, PDAs, iPod, MP3 music players, GPS devices), recovering evidence from PEDs, and hostile forensic and booby-trapping techniques.

**CSC 549. Computer Forensics Capstone. (3 Credits)**

A. Prerequisite: CSC 332 with a grade of "C" or higher. Project course. Students apply learned digital forensic knowledge, techniques, and software and hardware tools to work on a team project on a case for digital evidence collection, handling, analysis, and reporting.

**CSC 550. Graphics Programming. (3 Credits)**

A. Prerequisites: CSC 316 with a grade of "C" or higher. 3-D geometry, model transformation, matrices, computer algorithms and protocols, texture mapping, camera control, and collision detection.

**CSC 555. Topics in Multimedia:\_\_\_\_. (3 Credits)**

A. Prerequisite: departmental approval. For advanced students in computer science. Subject announced when offered. May be retaken to a maximum of six hours, provided that the topics are different.

**CSC 581. Machine Learning. (3 Credits)**

(3) A. Prerequisites: A grade of "C" or higher in CSC 210 or 310 and STA 270. Introduction to Machine Learning and its core models and algorithms. Hands-on R programming experiences of using machine learning/deep learning algorithms to analyze real-world data sets.

**CSC 582. Big Data. (3 Credits)**

(3) A. Prerequisites: A grade of "C" or higher in all CSC 310. Advanced cutting edge and state-of-the-arts knowledge and implementation in big data. Modern deep learning tools for analyzing real-world data sets.

**CSC 583. Data Visualization. (3 Credits)**

(3) A. Prerequisites: CSC 310. Principles and techniques for data visualization, including visual representation methods and techniques for increasing the understanding of complex data and models. Hands-on visual programming experiences in data collection and demonstration.

**Electricity/Electronics****EET 251. Electricity and Electronics. (3 Credits)**

I, II. Prerequisite: Grade of at least "C" in MAT 095 or a minimum math ACT score of 18 or a minimum SAT math score of 490. Principles of basic electricity, circuit operation, and electronics. Topics include electrical components, measurements, power, characteristics of AC-DC, basic circuit laws, circuit simulation, magnetism, energy conversion, and sources. 2 Lec/2 Lab.

**EET 252. Digital Electronics. (3 Credits)**

I, II. Prerequisite: grade of at least "C" in MAT 090 or equivalent. A survey of digital electronics fundamentals and applications. Topics include number systems, digital mathematics, logic families, logic gates, multiplexers, demultiplexers, comparators, counters, decoders, displays, and converters. 2 Lec/2 Lab.

**EET 253. Microprocessor Control Systems. (3 Credits)**

A. Prerequisite: EET 251 and 252. The operation and application of microprocessor-based control systems in electro-mechanical project environments. Topics include data, address, and control signals; memory software; interfacing digital and analog devices; ports; and data communications. 2 Lec/2 Lab.

**EET 254. Machine Language/Microcontrol. (3 Credits)**

A. Prerequisite/Corequisite: EET 252. Machine language programming for ROM based microprocessor based industrial controllers. Emphasis on software manipulation of I/O control devices in real-time, interrupt driven, process control environments. 2 Lec/2 Lab.

**EET 257. Electronic Devices and Circuits. (3 Credits)**

A. Prerequisite: EET 251. An analysis of the characteristics of solid state devices and the common circuits that utilize these devices. Emphasis on problem solving supplemented by laboratory activities and demonstration of electronic circuits and devices. 2 Lec/2 Lab.

**EET 349. Co-op or Appl Lrn: CET/CEN. (1-8 Credits)**

II. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies in Computer Electronics Technology (CET) or Computer Electronic Networking (CEN). Transfer students must have completed at least 12 hours of coursework at EKU. A minimum of 80 hours work required for each academic credit.

**EET 350. Industrial Electronics I. (3 Credits)**

A. Prerequisite: EET 257. Principles of timing, power control circuitry, transducers, and programmable controllers in commercial and industrial applications. 2 Lec/2 Lab.

**EET 351. Programmable Logic Controllers. (3 Credits)**

A. Prerequisite: EET 251 or 252. The study of programmable logic controllers (PLCs). PLC functioning theory, selection, wiring, and programming. 2 Lec/2 Lab.

**EET 452. Electrical Power & Drives. (3 Credits)**

A. Prerequisites: EET 257; MAT 120 or higher and PHY 101. Principles of electromagnetic induction as applied to the generation, distribution, conversion, control, and measurement of electrical power. Analysis of the electronics used for electrical drives. Installation, programming and maintenance of digital drives. 2 Lec/2 Lab.

**Informatics****INF 101. Introduction to Online Learning. (1 Credit)**

(1) A. Formerly CSC 101. Prepare students to take online courses at EKU including the use of the Blackboard learning environment. Help students acquire basic skills to be successful in online learning. Credit will not be awarded to students who have credit for CSC 101.

**INF 104. Computer Literacy with Software Applications. (3 Credits)**

(3) A. Formerly: CSC 104. A non-technical survey of computer history, hardware, and software. Implications of the use and misuse of computers. The effect of computers on society. Software applications such as word processors, spread sheets, databases, and graphics. Credit will not be awarded to students who have credit for CSC 104. 3 Lec (1 lab when taught in large lecture sections).

**INF 105. Software Application Topics. (1-3 Credits)**

(1-3) A. Formerly CSC 105. Selected topics in software applications. Topics vary with offering. May be retaken with advisor approval to a maximum of nine hours provided topics are different.

**INF 110. Introduction to the Internet. (1 Credit)**

(1) I, II. Formerly CSC 110. Introduction to the internet and the Internet processing tools. The course emphasizes the use of the World Wide Web as an information broadcasting and retrieval tool. Credit will not be awarded to students who have credit for CSC 110.

**INF 120. Introduction to Multimedia. (3 Credits)**

(3) I, II. Formerly CSC 120. Introduction to multimedia technology and computerized visual communication. Topics include video editing, media file processing, video streaming, computer graphics. Credit will not be awarded to students who have credit for CSC 120.

**INF 123. Exploring Virtual Worlds. (3 Credits)**

(3) A. Formerly: CSC 123. Exploration of the technologies used in virtual environments and their effects on society. Review of technology driving virtual environments with historical context. Emerging technology. Social/economical consequences. Possible Future outcomes through new technologies and science fiction. Credit will not be awarded to students who have credit for CSC 123.

**INF 130. 3D Printing. (3 Credits)**

A. Exploration of the technologies used in the 3D printing process. Development of skills needed to generate content for 3D printing. Software-driven solutions to 3D printing issues. Emerging technology, Social/Economic consequences. Credit will not be awarded to students who have credit for Special Topics course: 3D printing.

**INF 301. Current Topics in Informatics:\_\_\_\_. (3 Credits)**

(3) A. Formerly CSC 301. Prerequisite: A grade of "C" or higher in INF 104, CIS 212, or or equivalent. Introduction to contemporary topics in informatics. May be retaken to a maximum of six hours provided the topics are different.

**INF 307. Cyberspace Security and Ethics. (3 Credits)**

(3) A. Formerly CSC 307. Prerequisite: A grade of "C" or higher in ENG 102, ENG 105 (B), or HON 102. A non-technical survey of computing, including computers' effect on society, computer crime, viruses and other threats, and self-protection in an online environment. Credit will not be awarded to students who have credit for CSC 307.

**INF 314. MS Office & Data Analysis. (3 Credits)**

(3) A. Formerly CSC 314. Prerequisite: "C" or higher in INF 104, CIS 212 or equivalent. Designing advanced Excel spreadsheets and Access databases to manage data problems with an emphasis on data calculations, data analysis, and organization of data.

**INF 318. Mobile Device Security & Privacy. (3 Credits)**

(3) A. Formerly CSC 318. Prerequisite: A grade of "C" or higher in ENG 102, 105(B), or HON 102. Introductory course on mobile device security and privacy. Topics include mobile devices including smart phones, tablets and others; mobile device threats; mobile device security including planning and implementation; mobile device privacy. Credit will not be awarded to students who have credit for CSC 318.

**INF 321. Computer Forensics. (3 Credits)**

(A). Formerly CSC 321. Prerequisite: A grade of "C" or higher in ENG 102, 105(B) or HON 102. Introductory course on computer forensics. Topics include computer forensics concept, digital evidence, law and regulations, computer forensics lab, computer forensic investigation, digital forensics report, court testimony, ethics and codes to expert witness. Credit will not be awarded to students who have credit for CSC 321.

**INF 322. Computer Forensics II. (3 Credits)**

(A). Formerly CSC 322. Prerequisite: CSC 321 with a minimum grade of C, or INF 321 with a minimum grade of C. Introductory course on computer forensics. Topics include digital evidence, digital forensics investigation procedure, evidence identification, data acquisition, crime scene processing, digital forensic tools, quality assurance, evidence processing, investigation report, and court testimony. Credit will not be awarded to students who have credit for CSC 322.

**INF 330. 2D Animation. (3 Credits)**

A. Prerequisite: A grade of "C" or higher in ART 100, BEM 240, INF 120, CSC 140, or TEC 190. Introduction to 2D animation for use in animation and games. Graphical tablets will be used to learn various digital drawing techniques and key-framing, onion-skinning, rigging will be used for animation generation leading to sprite-sheet assets. Credit will not be awarded to students who have credit for Special Topics course: 2D Animation.

**INF 391. Game Level Design for \_\_\_\_\_. (3 Credits)**

(3) A. Prerequisite: a grade of "C" or higher in INF 130 or INF 330 or ART 100 or MUS 290. Introduction to game asset creation, texture painting, 3D modeling, 2D assets, visual programming, and level design. May be retaken to a maximum of 12 hours provided the covered game genres are different.

**INF 430. Digital Sculpting. (3 Credits)**

A. Prerequisite: A grade of "C" or higher in ART 100, INF 130, INF 330, CSC 315. Navigate and utilize 3D sculpting tools. Create animation ready meshes and game ready models and textures. Learn appropriate terminology and vocabulary in the discussion of 3D assets. Credit will not be awarded to students who have credit for Special Topics course: Digital Sculpting.

**INF 495. Independent Work. (1-3 Credits)**

Prerequisite: A grade of "C" or higher in ENG 102, 105 (B), or HON 102, and departmental approval. Directed study/research on a problem or area chosen in consultation with the instructor. Final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of 12 hours.

**INF 507. Special Topics in Informatics:\_\_\_\_. (1-3 Credits)**

(1-3) A. Prerequisite: Departmental approval. topics vary with offering. May be retaken to a maximum of six hours with advisor approval, provided the topics are different.

**INF 511. Principles of Game Design and Game Theory. (3 Credits)**

A. Fundamentals of designing both digital and non-digital games. In-depth study of the nature of "Fun," design philosophies, choice, motivation, flow theory, types of decisions, and reward in gameplay systems. Additional topics related to gamification, monetization, and serious games also covered.

**INF 512. Game Production and Publication. (3 Credits)**

A. Review of historical and current aspects of the games industry from AAA to indie. Industry operations, Employment, Founding your own studio, Funding, Freelancing, the Role of Influencers (Twitch, Youtube, social media), Platforms, IP protection.

**INF 513. Online Game and Application Design. (3 Credits)**

A. Introduction to the principles of design for online games applications. Topics include game balance, competition, cooperation, detecting exploits and cheating, security, privacy, social structures, administration, community management, online harassment, and client-server communication. Credit will not be awarded for both INF 513 and INF 713 .

**INF 515. Special Topics in Gaming:\_\_\_\_. (3 Credits)**

(3) A. Topics vary with offering. May be retaken to a maximum of six hours with advisor approval, provided the topics are different. Credit will not be awarded to students who have credit for INF 507: Special Topics in Informatics. Credit will not be awarded for both INF 515 and INF 715.

**INF 518. Principles of Cybersecurity. (3 Credits)**

A. Pre-requisite: A minimum grade of "C" in CSC 210 or CSC 310. This course discusses cybersecurity principles. Topics include security governance, risk assessment, security, people, information, and physical asset management; system development, access, and management; threat and incident management; business continuity; security monitoring and improvement.

## Networking

**NET 302. PC Troubleshooting & Construction. (3 Credits)**

I, II. Prerequisite: TEC 161 or (INF 104 or higher) or (CSC 140 or higher) or (CIS 212 or higher). Construction, operation and troubleshooting microprocessors, system memory, computer architecture, video types, monitors, hard drives, mice, cabling, notebook computers and printers modern operating systems, and application programs. Building computer systems to specific requirements. 2 Lec/2 Lab.

**NET 303. LANs & PC Communications. (3 Credits)**

I, II. Formerly EET 303. Prerequisite: TEC 161 or (INF 104 or higher) or (CSC 140 or higher) or (CIS 212 or higher) and (a grade of at least "C" in MAT 095 or a minimum math ACT score of 18 or a minimum SAT math score of 490). Installing, configuring, managing, and troubleshooting network and computer systems communications hardware and software. 2 Lec/2 Lab.

**NET 343. Network Switches & Routers. (3 Credits)**

A. Formerly EET 343. Prerequisite: NET 303 or EET 303 or CIS 375. Cisco internetworking, switching, IOS, routing, VLAN's, access lists, and WAN protocols are covered in a combination of lecture, demonstration, and laboratory. 2 Lec/2 Lab.

**NET 344. Advanced Network Devices. (3 Credits)**

A. Prerequisite: NET 343. Configure and troubleshoot network-aware devices/objects in small- to mid-sized LANs. Principles of network device/object startup, configuration and management, VLAN, advanced network communications and security. 2 Lec/2 Lab.

**NET 349. Applied Learning in NET. (0.5-8 Credits)**

I, II. Prerequisite: departmental approval, Sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors.

**NET 349A. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at ECU. Minimum 80 hours work required per credit hour.

**NET 349B. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at ECU. Minimum 80 hours work required per credit hour.

**NET 349C. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at ECU. Minimum 80 hours work required per credit hour.

**NET 349D. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at ECU. Minimum 80 hours work required per credit hour.

**NET 349E. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at ECU. Minimum 80 hours work required per credit hour.

**NET 349F. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349G. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349H. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349I. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349J. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349K. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349L. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349M. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349N. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 354. Microcomputer & Network Security. (3 Credits)**

I, II. Formerly EET 354. Prerequisite: NET 303 or EET 303 or CIS 375. Security considerations in computer systems and networks using appropriate hardware and software. Topics include malware, encryption, VPNs, ACLs, firewalls, Wi-Fi, and secure protocols. Testing configuring, managing and troubleshooting security in network systems. 2 Lec/2 Lab.

**NET 367A. Exit Exam for AAS in Tech, with Computer Electronics. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration in NET 367A is required of all undergraduate A.A.S. students in the Technology program specializing in Computer Electronics program for the term in which they wish to take their comprehensive examination.

**NET 367B. Exit Exam for Minor in Computer Electronics Technology. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration in NET 367B is required of all undergraduate students in the Minor for Computer Electronics Technology program for the term in which they wish to take their comprehensive examination.

**NET 385. Advanced Switches & Routers. (3 Credits)**

(3) A. Prerequisite: NET 343. Configure and troubleshoot small to mid-sized switched LANs. Principles of switch and router startup, configuration and management, VLAN, trunking, STP, advanced routing, WAN, scaling IP address space. Configure, apply and verify Access Control Lists. 2 Lec/2 Lab.

**NET 395. Special Topics in NET. (2-3 Credits)**

A. Formerly EET 395. Prerequisite: 30 credit hours or more completed, and (EET 252 or NET 303). Emerging technologies in the area of Network security and electronics (NET). May be retaken up to a maximum of 9 hours provided subject matter differs each time. Lec/Lab.

**NET 399. Associate Degree Capstone. (3 Credits)**

II. Formerly EET 399. Prerequisite: 30 credit hours or more completed, with a minimum of 9 semester hours of NET coursework completed, and a minimum of 6 semester hours of EET coursework completed. A project and research oriented course which serves as a capstone experience at the Associate Degree level. Design, implementation, analysis, and troubleshooting of electronic and computer technology related systems, and managing a technical.

**NET 403. Advanced LANSs and PC Communication. (3 Credits)**

A. Formerly EET 403. Prerequisite: NET 303 or EET 303 or CIS 375. This course will cover installation, configuration, troubleshooting and maintaining common server platforms. The participants will be given the opportunity to setup and manage network hardware, operating systems and applications. 2 Lec/2 Lab.

**NET 440. Wired/Wireless Communications. (3 Credits)**

A. Prerequisite: EET 257; MAT 112B or higher and PHY 101. Principles of communication over fiber and other wired/wireless media; digital and analog data transmission; modulation and multiplexing of data. Communication system components, safety, testing and troubleshooting. 2 Lec/2 Lab.

**NET 454. Wireless/WAN Security. (3 Credits)**

A. Prerequisites: (NET 303 or CIS 375) and NET 354. Security considerations in wireless and WANs. Wi-Fi, 802. 11x, WPA, RADIUS, encryption, VPNs, VLANs, AAA authentication, Network Security Appliances, and secure protocols. Laboratory based configuration and security testing of WAPs, appliances and servers. 2 Lec/2 Lab.

**NET 467. Exit Exam for BS in NET. (0 Credits)**

(0) A. Prerequisite: Consent to advisor. Registration in NET 467 is required of all undergraduate B.S. (NET) students for the term in which they wish to take their comprehensive examination, including the exit exam and advisor approved certification or license.

**NET 499. Senior Capstone. (3 Credits)**

II. Formerly EET 499. Prerequisite: 90 credit hours or more completed, with a minimum of 18 semester hours of NET coursework completed, and a minimum of 9 semester hours of EET coursework completed, and AEM 310W. A project and research oriented course which serves as a capstone experience at the Bachelor Degree level. Design, implementation, analysis, and troubleshooting of networking, computers and electronics technology related systems, and managing a technical project.

## Artificial Intelligence in Data Science, Departmental Certificate

### Program Requirements

A student may qualify for a Certificate in Artificial Intelligence in Data Science by completing:

Code	Title	Hours
<b>Certificate Requirements</b>		
CSC 546	Artificial Intelligence	3
CSC 581	Machine Learning	3
CSC 582	Big Data	3
CSC 583	Data Visualization	3
<b>Total Hours</b>		<b>12</b>

## Computer Electronics Technology, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
EET 251	Electricity and Electronics	3
EET 252	Digital Electronics	3
Choose from one of the following: 3		
EET 253	Microprocessor Control Systems	
EET 351	Programmable Logic Controllers	
AEM 352	Robotics and Automated Systems	
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
Choose from one of the following: 3		
NET 343	Network Switches & Routers	
NET 354	Microcomputer & Network Security	
NET 395	Special Topics in NET	

Upper-division NET course approved by advisor

**Exit Requirements**

Students must take an assessment examination for completing the minor.

NET 367B	Exit Exam for Minor in Computer Electronics Technology (CR only, no hours)	0
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**Total Hours** **18**

Prerequisites may be required for some course selections.

## Computer Science, Bachelor of Science with a Concentration in Artificial Intelligence in Data Science (B.S.)

### Program Objectives

The mission of the Bachelor of Science in Computer Science program is to provide students with an education that will prepare them to develop a career in the fields of computer science or computer forensics.

### Program Requirements

CIP Code: 11.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100I	Student Success Seminar in Computer Science (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Computer Science majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

Choose from one of the following:

CSC 349	Applied Learning in Computer Science	
CSC 440	Applied Software Engineering	
CSC 491	Game Design Capstone	
CSC 549	Computer Forensics Capstone	
CSC 495	Independent Work (with a program-approved topic)	

**Major Requirements**

*Core Courses*

CSC 185	Discrete Structures I <sup>1</sup>	3
CSC 190	Object- Oriented Programming I <sup>1</sup>	3
CSC 191	Object- Oriented Programming II	3
CSC 195	Discrete Structures II	3
CSC 308	Mobile App Development for Apple iOS	3
CSC 310	Data Structures	3
CSC 313	Database Systems	3
CSC 338	Fundamentals of Cybersecurity	3
CSC 340	Ethics & Software Engineering	3
CSC 499	CS Career Preparation	1

**Concentrations**

Students must select one of the following Concentrations:

Computer Science (General)	
Computer Technology	
Interactive Multimedia	
Artificial Intelligence in Data Science	54

*Supporting Course Requirements*

Choose from 16-34 hours of supporting courses

16-18 hours of Computer Science (General)	
24-25 hours of Computer Technology	
25-28 hours of Interactive Multimedia	
30-34 hours of Artificial Intelligence in Data Science	

*Free Electives*

Choose from 14 hours of free electives	14
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<b>Total Hours</b>	<b>133</b>
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1

Students without a 25 ACT or 590 SAT will be advised to take CSC 170 Intro to Game Programming as preparation for CSC 185 Discrete Structures I and CSC 190 Object- Oriented Programming I.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CSC 311	Algorithms I	3
CSC 320	Algorithms II	3
CSC 545	Theory of Database Systems	3
CSC 546	Artificial Intelligence	3
CSC 581	Machine Learning	3

CSC 582	Big Data	3
CSC 583	Data Visualization	3
Choose from one hour of the following:		1
CSC 494	Innovative Problem Solving	
CSC 495	Independent Work	
CSC 496	Senior Seminar	

*Supporting Course Requirements*

MAT 234	Calculus I (Element 2) <sup>G</sup>	
MAT 244	Calculus II	4
STA 270	Applied Statistics	4
STA 340	Applied Regression Analysis	3
STA 375	Sampling Methods	3
STA 380	Nonparametric Statistics	3
STA 575	Statistical Methods Using SAS	3
STA 580	R and Introductory Data Mining	3
STA 585	Experimental Design	3

Choose from one of the following sequences: 6

*Applied Engineering Mgt:*

AEM 202	Introduction to Quality	
Choose from one of the following:		
AEM 332	Process Control and Auditing	
AEM 336	Reliability and Sampling	
AEM 506	Six Sigma Quality	

*Biology:*

BIO 315	Genetics <sup>1</sup>	
BIO 533	Bioinformatics: Principles and Applications	

*Economics:*

ECO 230	Fundamentals of Microeconomics	
ECO 231	Fundamentals of Macroeconomics (Element 5B) <sup>G</sup>	

*Insurance:*

INS 370		
Choose from one of the following:		
INS 372		
INS 374		
INS 378		

*Statistics:*

STA 520	Mathematical Statistics I	
STA 521	Mathematical Statistics II	

*Computer Science:*

CSC 332	Digital Storage Device Forensics	
Choose from one of the following:		
CSC 542	Internet Forensics	
CSC 547	Network Forensic and Investigation	
CSC 548	Personal Electronic Device Forensics	

*Geography:*

GEO 353	Geographic Information Systems <sup>2</sup>	
GEO 453	Advanced GIS	

*Homeland Security:*

Choose from two of the following:		
HLS 401	Intelligence Process	
HLS 402	Counterintelligence	

HLS 403	Intelligence Analysis
<b>Total Hours</b>	<b>54</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1  
 BIO 315 Genetics has a prerequisite of BIO 111 Cell and Molecular Biology or BIO 112 Ecology and Evolution.

2  
 GEO 353 Geographic Information Systems has a prerequisite of one course from: AGR 216 Principles of Soils Laboratory, GEO 100 Regions and Nations of the World, GEO 210 Introduction to Physical Geography, GEO 220 , GLY 102 Earth Science for Elementary Teachers, GLY 107 Gold and Diamonds, or GLY 108 Earthquakes and Volcanoes.

# Computer Science, Bachelor of Science with a Concentration in Computer Science (General) (B.S.)

## Program Objectives

The mission of the Bachelor of Science in Computer Science program is to provide students with an education that will prepare them to develop a career in the fields of computer science or computer forensics.

## Program Educational Objectives/Goals for General Computer Science Concentration

1. Our graduates will be productive professionals in the computing field.
2. Our graduates will develop professionally through continued formal education and/or professional activities.
3. Our graduates will demonstrate leadership skills at work.
4. Our graduates will contribute to community as computing professionals.

## Program Requirements

CIP Code: 11.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3

<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36

<i>Student Success Seminar</i>		
SCO 100I	Student Success Seminar in Computer Science (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Computer Science majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

Choose from one of the following:		
CSC 349	Applied Learning in Computer Science	
CSC 440	Applied Software Engineering	
CSC 491	Game Design Capstone	
CSC 549	Computer Forensics Capstone	
CSC 495	Independent Work (with a program-approved topic)	

<b>Major Requirements</b>		
<i>Core Courses</i>		
CSC 185	Discrete Structures I <sup>1</sup>	3
CSC 190	Object- Oriented Programming I <sup>1</sup>	3
CSC 191	Object- Oriented Programming II	3
CSC 195	Discrete Structures II	3
CSC 308	Mobile App Development for Apple iOS	3
CSC 310	Data Structures	3
CSC 313	Database Systems	3
CSC 338	Fundamentals of Cybersecurity	3
CSC 340	Ethics & Software Engineering	3
CSC 499	CS Career Preparation	1

<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Computer Science (General)		39

Computer Technology		
Interactive Multimedia		
Artificial Intelligence in Data Science		

<i>Supporting Course Requirements</i>		
Choose from 16-34 hours of supporting courses		
16-18 hours of Computer Science (General)		
24-25 hours of Computer Technology		
25-28 hours of Interactive Multimedia		
30-34 hours of Artificial Intelligence in Data Science		

*Free Electives*

Choose from 16 hours of free electives 16

**Total Hours** 120

1

Students without a 25 ACT or 590 SAT will be advised to take CSC 170 Intro to Game Programming as preparation for CSC 185 Discrete Structures I and CSC 190 Object- Oriented Programming I.

## Concentration

Accredited by the Computer Science Accreditation Commission of ABET, <http://www.abet.org>

Code	Title	Hours
<b>Concentration Courses</b>		
CSC 311	Algorithms I	3
CSC 320	Algorithms II	3
CSC 360	Computer Org & Architecture	3
CSC 400	Operating Systems	3
CSC 440	Applied Software Engineering	3
CSC 460	Computer Network & System Administration	3
CSC 541	Software Testing	3
CSC 545	Theory of Database Systems	3
Choose from one hour of the following: 1		
CSC 494	Innovative Problem Solving	
CSC 495	Independent Work	
CSC 496	Senior Seminar	

### Supporting Course Requirements

EET 252	Digital Electronics	3
MAT 234	Calculus I (Element 2) <sup>G</sup>	
MAT 239	Linear Algebra and Matrices	3
MAT 244	Calculus II	4
STA 270	Applied Statistics	4

Choose two courses with different prefixes of the following:

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
BIO 112	Ecology and Evolution (Element 4) <sup>G</sup>	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
GLY 108	Earthquakes and Volcanoes (Element 4) <sup>G</sup>	
GLY 109	Great Moments in Earth History (Element 4) <sup>G</sup>	
PHY 201	University Physics I (Element 4) <sup>G</sup>	

**Total Hours** 39**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

# Computer Science, Bachelor of Science with a Concentration in Computer Technology (B.S.)

## Program Objectives

The mission of the Bachelor of Science in Computer Science program is to provide students with an education that will prepare them to develop a career in the fields of computer science or computer forensics.

## Program Requirements

CIP Code: 11.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100I	Student Success Seminar in Computer Science (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Computer Science majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
CSC 349	Applied Learning in Computer Science	
CSC 440	Applied Software Engineering	
CSC 491	Game Design Capstone	
CSC 549	Computer Forensics Capstone	
CSC 495	Independent Work (with a program-approved topic)	

### Major Requirements

#### Core Courses

CSC 185	Discrete Structures I <sup>1</sup>	3
CSC 190	Object- Oriented Programming I <sup>1</sup>	3
CSC 191	Object- Oriented Programming II	3
CSC 195	Discrete Structures II	3
CSC 308	Mobile App Development for Apple iOS	3
CSC 310	Data Structures	3

CSC 313	Database Systems	3
CSC 338	Fundamentals of Cybersecurity	3
CSC 340	Ethics & Software Engineering	3
CSC 499	CS Career Preparation	1

**Concentrations**

Students must select one of the following Concentrations:

Computer Science (General)		
Computer Technology		45-46
Interactive Multimedia		
Artificial Intelligence in Data Science		

**Supporting Course Requirements**

Choose from 16-34 hours of supporting courses

16-18 hours of Computer Science (General)		
24-25 hours of Computer Technology		
25-28 hours of Interactive Multimedia		
30-34 hours of Artificial Intelligence in Data Science		

**Free Electives**

Choose from 14 hours of free electives 14

**Total Hours** 124-125

1

Students without a 25 ACT or 590 SAT will be advised to take CSC 170 Intro to Game Programming as preparation for CSC 185 Discrete Structures I and CSC 190 Object- Oriented Programming I.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CSC 360	Computer Org & Architecture	3
CSC 440	Applied Software Engineering	3
CSC 460	Computer Network & System Administration	3
CSC 545	Theory of Database Systems	3
CSC 349	Applied Learning in Computer Science <sup>1</sup>	3
CSC 330	System Environments & Networks	3
or CSC 544	Database Admin and Security	
Choose from one three credit CSC course at 300-level or above <sup>2</sup>		3
Choose from one hour of the following:		1
CSC 494	Innovative Problem Solving	
CSC 495	Independent Work	
CSC 496	Senior Seminar	
<b>Supporting Course Requirements</b>		
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 343	Network Switches & Routers	3
NET 344	Advanced Network Devices	2-3
or NET 395	Special Topics in NET	
NET 354	Microcomputer & Network Security	3
NET 403	Advanced LANSs and PC Communication	3
NET 454	Wireless/WAN Security	3
Choose from one of the following:		
MAT 234	Calculus I (Element 2) <sup>G</sup>	

MAT 211	Applied Calculus (Element 2) <sup>G</sup>	
<b>Total Hours</b>		<b>45-46</b>

1

Under special circumstances, a student may seek an administrative waiver of the CSC 349 Applied Learning in Computer Science requirement from the Computer Science Curriculum Committee and the department chair. Waiver recipients are required to complete three semester hours of additional course work approved by the Computer Science Curriculum Committee.

2

Except CSC 349 Applied Learning in Computer Science

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Computer Science, Bachelor of Science with a Concentration in Interactive Multimedia (B.S.)

### Program Objectives

The mission of the Bachelor of Science in Computer Science program is to provide students with an education that will prepare them to develop a career in the fields of computer science or computer forensics.

### Program Requirements

CIP Code: 11.0101

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 1001	Student Success Seminar in Computer Science (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Computer Science majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
Choose from one of the following:		
CSC 349	Applied Learning in Computer Science	
CSC 440	Applied Software Engineering	
CSC 491	Game Design Capstone	
CSC 549	Computer Forensics Capstone	
CSC 495	Independent Work (with a program-approved topic)	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CSC 185	Discrete Structures I <sup>1</sup>	3
CSC 190	Object- Oriented Programming I <sup>1</sup>	3
CSC 191	Object- Oriented Programming II	3
CSC 195	Discrete Structures II	3
CSC 308	Mobile App Development for Apple iOS	3
CSC 310	Data Structures	3
CSC 313	Database Systems	3
CSC 338	Fundamentals of Cybersecurity	3
CSC 340	Ethics & Software Engineering	3
CSC 499	CS Career Preparation	1
<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Computer Science (General)		
Computer Technology		
Interactive Multimedia		47
Artificial Intelligence in Data Science		
<i>Supporting Course Requirements</i>		
Choose from 16-34 hours of supporting courses		
16-18 hours of Computer Science (General)		
24-25 hours of Computer Technology		
25-28 hours of Interactive Multimedia		
30-34 hours of Artificial Intelligence in Data Science		
<i>Free Electives</i>		
Choose from 14 hours of free electives		14
<b>Total Hours</b>		<b>126</b>

1

Students without a 25 ACT or 590 SAT will be advised to take CSC 170 Intro to Game Programming as preparation for CSC 185 Discrete Structures I and CSC 190 Object- Oriented Programming I.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
CSC 140	Introduction to Computer Game Design	3
CSC 315	3D Modeling	3
CSC 316	3D Game Engine Design	3
CSC 550	Graphics Programming	3
CSC 520	Multimedia System and Forensics	3
or CSC 555	Topics in Multimedia:___	
CSC 491	Game Design Capstone	6
One CSC course at 300-level or above <sup>1</sup>		3
Choose from one hour of the following:		1
CSC 494	Innovative Problem Solving	
CSC 495	Independent Work	
CSC 496	Senior Seminar	
<i>Supporting Course Requirements</i>		
BEM 200	Mass Media and Society (Element 5B) <sup>G</sup>	
EET 252	Digital Electronics	3
INF 123	Exploring Virtual Worlds	3
INF 391	Game Level Design for ___	3
MAT 234	Calculus I (Element 2) <sup>G</sup>	
MAT 239	Linear Algebra and Matrices	3
MAT 244	Calculus II	4
MUS 290	Film Scoring	2
PHY 201	University Physics I (Element 4) <sup>G</sup>	
STA 270	Applied Statistics	4
ART 100	Drawing I (Element 3A) <sup>G</sup>	
or ART 200	Art Appreciation: Orientation	
<b>Total Hours</b>		<b>47</b>

1

Except CSC 349 Applied Learning in Computer Science

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Computer Science, Minor Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
CSC 185	Discrete Structures I	3
CSC 190	Object- Oriented Programming I	3
CSC 191	Object- Oriented Programming II	3
CSC 195	Discrete Structures II	3
CSC 310	Data Structures	3
CSC 313	Database Systems	3
CSC 340	Ethics & Software Engineering	3
<b>Total Hours</b>		<b>21</b>

## Cyber Security and Digital Forensics, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
CSC 536	Incident Response I	3
CSC 537	Incident Response II	3
CSC 544	Database Admin and Security	3
INF 518	Principles of Cybersecurity	3
<b>Total Hours</b>		<b>12</b>

## Cyber Systems and Network Security, Certificate

This certificate program will enhance technical competencies, including the knowledge, skills, and work practices, used for securing networked cyber systems. For students interested in continuing their studies at the Baccalaureate level, all of the courses in this certificate may be used as part of the BS degree program related to Cyber Systems Technology.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from one of the following:		3
CSC 160	Introduction to Web Programming (or higher)	
CIS 215	Introduction to Business Programming (or higher)	
INF 130	3D Printing (or higher)	
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 343	Network Switches & Routers	3
NET 354	Microcomputer & Network Security	3
NET 403	Advanced LANSs and PC Communication	3
NET 395	Special Topics in NET	3
or EET 351	Programmable Logic Controllers	
<b>Total Hours</b>		<b>24</b>

## Cyber Systems Technology, Bachelor of Science (B.S.) & Technology Management Master of Science (M.S.) [Cyber Systems Tech Security Concentration] Accelerated 3+2 Dual Degree Program

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.S. degree and M.S. degree within five calendar years because of the accelerated curriculum and because nine semester hours of graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should

be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required. Depending upon undergraduate progress at the time of 3+2 admission, some summer-school classes may be needed.

The Cyber Systems Technology degree program has an articulation agreement for transfer of credit and cooperation with Bluegrass Community and Technical College's Associate in Applied Science degree in Engineering Technology with Electrical Specialization.

Prerequisites may be required for some course selections.

Students must take at least one computer systems, networking, security, electronics, or telecommunications technology certification or license exam approved by the advisor.

Students must take a Cyber Systems Technology exit examination before graduation. Graduates must have an overall GPA of 2.25 in major requirements.

The Cyber Systems Technology program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

### Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

### Program Requirements

CIP Code: 15.1299

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Cyber Systems Technology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

NET 499	Senior Capstone	
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#### Major Requirements

##### Core Courses

AEM 202	Introduction to Quality	3
AEM 310W	Technical Communication	3
AEM 408	Human Resource Development	3
AEM 804	Project Management	3
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 343	Network Switches & Routers	3
NET 349	Applied Learning in NET	1
NET 354	Microcomputer & Network Security	3
NET 395	Special Topics in NET	3
NET 403	Advanced LANSs and PC Communication	3
NET 499	Senior Capstone	3
NSM 815	Foundations of Network Sec	3
NSM 845	Advanced Server Security	3

##### Major Electives

AEM 352	Robotics and Automated Systems	3
or EET 253	Microprocessor Control Systems	
or EET 351	Programmable Logic Controllers	
or NET 440	Wired/Wireless Communications	
TEC 161	Computer Applications in Technology	3
or INF 104	Computer Literacy with Software Applications	

#### Concentrations

Students must select one of the following Concentrations:	24
Cyber Systems Tech Security	
Tech Systems	

##### Supporting Course Requirements

ECO 120	Economic Reasoning and Issues (or higher) (Element 5B) <sup>G</sup>	3
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2) <sup>G</sup>	3
PHY 101	Conceptual Physics (or higher) (Element 4) <sup>G</sup>	3
STA 215	Introduction to Statistical Reasoning	4

or STA 270 Applied Statistics

<i>Free Electives</i>	
Choose from 6-7 hours of free electives	6-7
<i>Exit Requirements</i>	
Students must take an exit examination before graduation. An exam fee is required.	
NET 467	Exit Exam for BS in NET
	0
<b>Total Hours</b>	<b>129-130</b>

### G

Course also satisfies a General Education element. A maximum of six hours will count toward Element 4. Hours are included within the 36 hr. General Education requirement above.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EET 251	Electricity and Electronics	3
EET 257	Electronic Devices and Circuits	3
NET 344	Advanced Network Devices	3
NET 395	Special Topics in NET	3
NET 454	Wireless/WAN Security	3
Choose from nine hours of CSC, CIS, or INF courses of the following:		9
CSC 160	Introduction to Web Programming (or higher)	
CIS 215	Introduction to Business Programming (or higher)	
INF 130	3D Printing (or higher)	
<b>Total Hours</b>		<b>24</b>

### Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.)

See Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.) (p. 803)

## Cyber Systems Technology, Bachelor of Science (B.S.) & Technology Management Master of Science (M.S.) [Tech Systems Concentration] Accelerated 3+2 Dual Degree Program

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.S. degree and M.S. degree within five calendar years because of the accelerated curriculum and because nine semester hours of graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required. Depending upon undergraduate progress at the time of 3+2 admission, some summer-school classes may be needed.

The Cyber Systems Technology degree program has an articulation agreement for transfer of credit and cooperation with Bluegrass

Community and Technical College's Associate in Applied Science degree in Engineering Technology with Electrical Specialization.

Prerequisites may be required for some course selections.

Students must take at least one computer systems, networking, security, electronics, or telecommunications technology certification or license exam approved by the advisor.

Students must take a Cyber Systems Technology exit examination before graduation. Graduates must have an overall GPA of 2.25 in major requirements.

The Cyber Systems Technology program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

## Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

## Program Requirements

CIP Code: 15.1299

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT - Cyber Systems Technology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)		
NET 499	Senior Capstone	
<b>Major Requirements</b>		
<i>Core Courses</i>		
AEM 202	Introduction to Quality	3
AEM 310W	Technical Communication	3
AEM 408	Human Resource Development	3
AEM 804	Project Management	3
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 343	Network Switches & Routers	3
NET 349	Applied Learning in NET	1
NET 354	Microcomputer & Network Security	3
NET 395	Special Topics in NET	3
NET 403	Advanced LANSs and PC Communication	3
NET 499	Senior Capstone	3
NSM 815	Foundations of Network Sec	3
NSM 845	Advanced Server Security	3
<i>Major Electives</i>		
AEM 352	Robotics and Automated Systems	3
or EET 253	Microprocessor Control Systems	
or EET 351	Programmable Logic Controllers	
or NET 440	Wired/Wireless Communications	
TEC 161	Computer Applications in Technology	3
or INF 104	Computer Literacy with Software Applications	
<b>Concentrations</b>		
Students must select one of the following Concentrations:		24
Network Security & Electronics		
Tech Systems		
<i>Supporting Course Requirements</i>		
AEM 804	Project Management	3
ECO 130	Contemporary Economic Problems (or higher) (Element 5B) <sup>G</sup>	
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2) <sup>G</sup>	
PHY 101	Conceptual Physics (or higher) (Element 4) <sup>G</sup>	
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	

*Free Electives*

Choose from 6-7 hours of free electives 6-7

*Exit Requirements*

Students must take an exit examination before graduation. An exam fee is required.

NET 467 Exit Exam for BS in NET 0

**Total Hours 122-124**

**G**

Course also satisfies a General Education element. A maximum of six hours will count toward Element 4. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

<b>Code</b>	<b>Title</b>	<b>Hours</b>
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**Concentration Courses**

Choose from 24 hours of computer systems, electricity & electronics, 24 and networking technical electives as approved by major advisor. This is the recommended option for transfer students.

**Total Hours 24**

**Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.)**

See Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.) (p. 803)

**Cyber Systems Technology, Bachelor of Science with a Concentration in Network Security and Electronics (B.S.)**

The Cyber Systems Technology degree program has an articulation agreement for transfer of credit and cooperation with Bluegrass Community and Technical College's Associate in Applied Science Degree in Engineering Technology with Electrical Specialization.

Prerequisites may be required for some course selections.

Students must take at least one computer systems, networking, security, electronics, or telecommunications technology certification or license exam approved by the advisor.

Students must take a Cyber Systems Technology exit examination before graduation. Graduates must have an overall GPA of 2.25 in major requirements.

The Cyber Systems Technology program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

**Program Requirements**

CIP Code: 15.1299

**Summary Checklist for General Education**

<b>Code</b>	<b>Title</b>	<b>Hours</b>
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**Element 1**

A: Written Communication (p. 62) 3

B: Written Communication (p. 62) 3

C: Oral Communication (p. 62) 3

**Element 2**

Quantitative Reasoning (p. 63) 3

**Element 3**

A: Arts (p. 63) 3

B: Humanities (p. 63) 3

**Element 4**

Natural Sciences (p. 64) 6

**Element 5**

A: Historical Science (p. 64) 3

B: Social Behavioral Science (p. 64) 3

**Element 6**

Diversity of Perspectives Experiences (p. 65) 6

**Total Hours 36**

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

**Major**

<b>Code</b>	<b>Title</b>	<b>Hours</b>
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**University Graduation Requirements**

General Education 36

*Student Success Seminar*

SCO 100 Student Success Seminar (waived for transfers with 30+ hrs.) 1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT - Cyber Systems Technology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)

NET 499 Senior Capstone

**Major Requirements**

*Core Courses*

AEM 202 Introduction to Quality 3

AEM 310W Technical Communication 3

AEM 408 Human Resource Development 3

EET 252 Digital Electronics 3

NET 302 PC Troubleshooting & Construction 3

NET 303 LANs & PC Communications 3

NET 343 Network Switches & Routers 3

NET 349 Applied Learning in NET 1

NET 354 Microcomputer & Network Security 3

NET 395 Special Topics in NET 3

NET 403 Advanced LANSs and PC Communication 3

NET 499 Senior Capstone 3

*Major Electives*

AEM 407 Fundamentals of Project Management 3

or CIS 410 Project Management and Practice

AEM 352 Robotics and Automated Systems 3

or EET 253 Microprocessor Control Systems

or EET 351 Programmable Logic Controllers

or NET 440 Wired/Wireless Communications

TEC 161 or INF 104	Computer Applications in Technology Computer Literacy with Software Applications	3
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**Concentrations**

Students must select one of the following Concentrations: 24

Network Security & Electronics

Tech Systems

*Supporting Course Requirements*

ECO 120	Economic Reasoning and Issues (or higher) (Element 5B) <sup>G</sup>	
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2) <sup>G</sup>	
PHY 101	Conceptual Physics (or higher) (Element 4) <sup>G</sup>	
STA 215 or STA 270	Introduction to Statistical Reasoning Applied Statistics	3-4

Choose from three hours of ACC, AEM, CCT, CIS, FIN, MGT, MKT, or RMI electives as approved by major advisor 3

*Free Electives*

Choose from 10 hours of free electives 10

(Up to five semester hours of Upper Division courses, including Cooperative Education, may be needed for meeting the 42 hour requirement. Students with an ACT Math sub-score of 19-21 may consider taking CSC 101 (The World of Code) to build computing competencies early in the degree program.)

*Exit Requirements*

NET 467 Exit Exam for BS in NET (CR only, no hours) 0

**Total Hours 120-121**

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
EET 251	Electricity and Electronics	3
EET 257	Electronic Devices and Circuits	3
NET 344	Advanced Network Devices	3
NET 395	Special Topics in NET	3
NET 454	Wireless/WAN Security	3
Choose from nine hours of CSC, CIS, or INF courses of the following:		9
CSC 160	Introduction to Web Programming (or higher)	
CIS 215	Introduction to Business Programming (or higher)	
INF 130	3D Printing (or higher)	
<b>Total Hours</b>		<b>24</b>

## Cyber Systems Technology, Bachelor of Science with a Concentration in Tech Systems (B.S.)

The Cyber Systems Technology degree program has an articulation agreement for transfer of credit and cooperation with Bluegrass Community and Technical College's Associate in Applied Science Degree in Engineering Technology with Electrical Specialization.

Prerequisites may be required for some course selections.

Students must take at least one computer systems, networking, security, electronics, or telecommunications technology certification or license exam approved by the advisor.

Students must take a Cyber Systems Technology exit examination before graduation. Graduates must have an overall GPA of 2.25 in major requirements.

The Cyber Systems Technology program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

## Program Requirements

CIP Code: 15.1299

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT - Cyber Systems Technology majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)	
NET 499	Senior Capstone	
<b>Major Requirements</b>		
<i>Core Courses</i>		
AEM 202	Introduction to Quality	3

AEM 310W	Technical Communication	3
AEM 408	Human Resource Development	3
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 343	Network Switches & Routers	3
NET 349	Applied Learning in NET	1
NET 354	Microcomputer & Network Security	3
NET 395	Special Topics in NET	3
NET 403	Advanced LANSs and PC Communication	3
NET 499	Senior Capstone	3

*Major Electives*

AEM 407	Fundamentals of Project Management	3
or CIS 410	Project Management and Practice	
AEM 352	Robotics and Automated Systems	3
or EET 253	Microprocessor Control Systems	
or EET 351	Programmable Logic Controllers	
or NET 440	Wired/Wireless Communications	
TEC 161	Computer Applications in Technology	3
or INF 104	Computer Literacy with Software Applications	

**Concentrations**

Students must select one of the following Concentrations:	24
Network Security & Electronics	
Tech Systems	

*Supporting Course Requirements*

ECO 120	Economic Reasoning and Issues (or higher) (Element 5B) <sup>G</sup>	
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2) <sup>G</sup>	
PHY 101	Conceptual Physics (or higher) (Element 4) <sup>G</sup>	
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	
Choose from three hours of ACC, AEM, CCT, CIS, FIN, MGT, MKT, or RMI electives as approved by major advisor		3

*Free Electives*

Choose from 10 hours of free electives	10
(Up to five semester hours of Upper Division courses, including Cooperative Education, may be needed for meeting the 42 hour requirement. Students with an ACT Math sub-score of 19-21 may consider taking CSC 101 (The World of Code) to build computing competencies early in the degree program.)	

*Exit Requirements*

NET 467	Exit Exam for BS in NET (CR only, no hours)	0
<b>Total Hours</b>		<b>120-121</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 24 hours of computer systems, electricity & electronics, and networking related technical electives as approved by major adviser. This is the recommended option for transfer students.		
<b>Total Hours</b>		<b>24</b>

**Cybersecurity and Intelligence, Minor Program Requirements**

Code	Title	Hours
<b>Required Courses</b>		
HLS 401	Intelligence Process	3
HLS 402	Counterintelligence	3
HLS 403	Intelligence Analysis	3
INF 321	Computer Forensics	3
INF 322	Computer Forensics II	3
Choose from two of the following:		6
CIS 320	Forensic Computing: Investigations	
CIS 325	Forensic Computing: Acquisitions	
CSC 332	Digital Storage Device Forensics	
CSC 520	Multimedia System and Forensics	
CSC 542	Internet Forensics	
CSC 548	Personal Electronic Device Forensics	
INF 307	Cyberspace Security and Ethics	
INF 314	MS Office & Data Analysis	
INF 318	Mobile Device Security & Privacy	
<b>Total Hours</b>		<b>21</b>

**Digital Forensics and Cybersecurity, Bachelor of Science (B.S.)**

**Program Mission**

The mission of the Bachelor of Science program in Digital Forensics and Cybersecurity is to provide students with an education that will prepare them to build a solid foundation of knowledge and skills in digital forensics and cybersecurity and develop a career in the related professional fields.

1. Our graduates will be productive professionals in the digital forensics and cybersecurity fields.
2. Our graduates will develop professionally through continued formal education and/or professional activities.
3. Our graduates will demonstrate leadership skills at work.
4. Our graduates will contribute to community as digital forensic and cybersecurity professionals.

**Program Requirements**

CIP Code: 43.0116

## Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
	Student Success Seminar (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT - Digital Forensics and Cybersecurity majors will fulfill ACCT with the following. (Credit hours may be incorporated into Major or Supporting requirements)	
	Choose from one of the following:	
	CSC 549 Computer Forensics Capstone	
	CSC 495 Independent Work (with a program-approved topic)	
	INF 495 Independent Work (with a program-approved topic)	
<b>Major Requirements</b>		
<i>Core Courses</i>		
CSC 189	Computing Concepts and Programming	3
or CSC 190	Object- Oriented Programming I	
CSC 210	Data Structures and Programming	3
CSC 313	Database Systems	3
CSC 332	Digital Storage Device Forensics	3
CSC 360	Computer Org & Architecture	3
CSC 400	Operating Systems	3
CSC 410	Cyber Networking and Security	3
CSC 536	Incident Response I	3
CSC 537	Incident Response II	3
CSC 547	Network Forensic and Investigation	3

CSC 548	Personal Electronic Device Forensics	3
CSC 549	Computer Forensics Capstone	3
CSC 308	Mobile App Development for Apple iOS	3
or CSC 309	Mobile App Dev for Android	
INF 318	Mobile Device Security & Privacy	3
INF 321	Computer Forensics	3
INF 322	Computer Forensics II	3
INF 518	Principles of Cybersecurity	3
	Choose from two of the following:	6
CSC 520	Multimedia System and Forensics	
CSC 539	MAC Forensics	
CSC 542	Internet Forensics	
CSC 543	Windows Forensics	
CSC 544	Database Admin and Security	
CSC 349	Applied Learning in Computer Science	3
or CSC 495	Independent Work	
<i>Supporting Course Requirements</i>		
CMS 210	Public Speaking (Element 1) <sup>G</sup>	
FOR 301	Introduction to Forensic Science	3
FOR 401	Forensic Professional Practice	1
FOR 465W	Expert Witness Testimony	3
STA 270	Applied Statistics	4
MAT 234	Calculus I (Element 2) <sup>G</sup>	
	Choose from two of the following:	8-9
BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
CHE 111	General Chemistry	
& 111L	and General Chemistry Lab I (Element 4) <sup>G</sup>	
PHY 201	University Physics I (Element 4) <sup>G</sup>	
	Choose from one of the following:	3
CRJ 101	Introduction to Criminal Justice	
PLS 216	Criminal Law	
PLS 316	Criminal Evidence	
PLS 416	Criminal Procedure	
	Choose from one of the following:	3
CIS 320	Forensic Computing: Investigations	
CIS 325	Forensic Computing: Acquisitions	
HLS 400	Evolution of the U.S. Intelligence Community	
HLS 401	Intelligence Process	
HLS 402	Counterintelligence	
HLS 403	Intelligence Analysis	
NET 303	LANs & PC Communications	
NET 354	Microcomputer & Network Security	
NET 454	Wireless/WAN Security	
<i>Free Electives</i>		
	Choose from 0-1 hour of free electives	0-1
<b>Total Hours</b>		<b>122-124</b>

### G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

## Game Content Design, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
INF 123	Exploring Virtual Worlds	3
INF 130	3D Printing	3
MUS 290	Film Scoring	2
INF 330	2D Animation	3
INF 391	Game Level Design for ____	3
INF 430	Digital Sculpting	3
Choose from one of the following:		3
ART 100	Drawing I	
BEM 353W	The Art and Craft of Screenwriting	
INF 120	Introduction to Multimedia	
ENG 306	Introduction to Creative Writing	
<b>Total Hours</b>		<b>20</b>

## Game Design, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
INF 511	Principles of Game Design and Game Theory	3
INF 512	Game Production and Publication	3
INF 513	Online Game and Application Design	3
INF 515	Special Topics in Gaming:____	3
<b>Total Hours</b>		<b>12</b>

## Informatics, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
INF 104	Computer Literacy with Software Applications	3
or CIS 212	Introduction to Computer Information Systems	
INF 307	Cyberspace Security and Ethics	3
INF 314	MS Office & Data Analysis	3
Choose from three hours of the following:		3
INF 105	Software Application Topics	
INF 120	Introduction to Multimedia	
INF 123	Exploring Virtual Worlds	
INF 130	3D Printing	
INF 301	Current Topics in Informatics:____	
INF 318	Mobile Device Security & Privacy	
INF 330	2D Animation	
CSC 140	Introduction to Computer Game Design	
CSC 160	Introduction to Web Programming	
CSC 170	Intro to Game Programming	
CIS 420	Forensic Computing: Network Analysis <sup>1</sup>	

INF 510	<sup>1</sup>	
<b>Total Hours</b>		<b>12</b>

1

Bachelor in General Studies students who are also seeking the professional Certificate in Informatics must take CIS 420 Forensic Computing: Network Analysis or INF 510 .

## Informatics, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
INF 104	Computer Literacy with Software Applications	3
or CIS 212	Introduction to Computer Information Systems	
INF 314	MS Office & Data Analysis	3
INF 123	Exploring Virtual Worlds	3
or INF 307	Cyberspace Security and Ethics	
Choose from one of the following:		3-4
STA 215	Introduction to Statistical Reasoning	
STA 270	Applied Statistics <sup>1</sup>	
Choose from six hours of the following:		6
INF 105	Software Application Topics	
INF 120	Introduction to Multimedia	
INF 130	3D Printing	
INF 301	Current Topics in Informatics:____	
INF 318	Mobile Device Security & Privacy	
INF 330	2D Animation	
INF 495	Independent Work	
CSC 101	The World of Code	
CSC 140	Introduction to Computer Game Design	
CSC 160	Introduction to Web Programming	
CSC 170	Intro to Game Programming	
CSC 174	Introduction to Programming for Science & Engineering	
CSC 177	Introduction to Visual Basic	
CSC 178	Introduction to ____	
CSC 190	Object- Oriented Programming I <sup>1</sup>	
CIS 215	Introduction to Business Programming	
CIS 320	Forensic Computing: Investigations	
CIS 325	Forensic Computing: Acquisitions	
HSA 370	Health Information Management	
STA 340	Applied Regression Analysis	
STA 580	R and Introductory Data Mining	
INF 123	Exploring Virtual Worlds (if not used above)	
INF 307	Cyberspace Security and Ethics (if not used above)	
<b>Total Hours</b>		<b>18-19</b>

1

May include MAT 112A Algebra: Polynomials/MAT 112B Algebra: Functions & Matrices or higher as a prerequisite

# Department of Mathematics and Statistics

## Interim Chair

Dr. Shane Redmond  
(859) 622-5942  
Wallace 312

## Faculty

D. Adatorwover, C. Applegate, R. Bishop-Ross, T. Burus, R. Buskirk, S. Clift, P. Coen, M. Cropper, S. Eskew, K. Fair, J. Grogan, B. Hibbard, S. Kalraba, L. Kay, C. Liu, J. Neugebauer, M. Osborne, S. Redmond, M. Smith, M. Stribling, S. Szabo, B. Xu, and M. Yoder

The Department of Mathematics and Statistics offers degrees and minors in these disciplines, as well as providing college readiness and general education mathematics and statistics courses.

## Bachelor's

- Data Science and Statistics, Bachelor of Science (B.S.) (p. 540)
- Mathematics, Bachelor of Science with a Concentration in General Mathematics (B.S.) (p. 543)
- Mathematics, Bachelor of Science with a Concentration in Mathematics Teaching (B.S.) (p. 545)

## Accelerated

- Data Science and Statistics, Bachelor of Science (B.S.) & Applied Mathematics, Master of Arts (M.A.) Accelerated 3+2 Dual Degree Program (p. 541)

## Associate's

*No results were found.*

## Minor

- Actuarial Science, Minor (p. 539)
- Mathematical Sciences, Minor (p. 543)
- Mathematics, Minor (p. 546)
- Mathematics/Teaching, Minor (p. 546)
- Statistics, Minor (p. 547)

## Certificate

- Applied Data Science, Certificate (p. 539)

## Courses

### Mathematics

#### **MAT 105. Mathematics with Applications. (3 Credits)**

I, II. Prerequisite: Satisfaction of English and reading academic readiness indicators and either satisfaction of mathematics academic readiness indicators\* or concurrent enrollment in MAT 105P. This course is designed to strengthen computational skills, mathematical reasoning, problems-solving skills, and mathematical reading/ communication skills while focusing on real-world problems. The mathematical topics may include the mathematics of finance, statistics, geometry, combinatorics, mathematical modeling, and algorithms. Use of calculators. Gen. Ed. E-2 [QR].

#### **MAT 105P. Quantitative Support for MAT 105. (1 Credit)**

(1) I, II. Corequisite: MAT 105. Corequisite support for students in MAT 105. Emphasis placed on prerequisite skills such as real number sense and operations, problem solving, analyzing graphs, mathematical modeling, and critical thinking. 2 Lab.

#### **MAT 106. Applied Mathematics: \_\_\_\_. (3 Credits)**

I, II. Prerequisite: Satisfaction of English and reading academic readiness indicators\* and either satisfaction of mathematics academic readiness indicators or concurrent enrollment in MAT 106P. The introduction to the application of mathematics to real-world problems. Topics are from various branches of mathematics such as graph theory, game theory, probability, geometry, and problems from the social sciences. 3 Lec. Gen. Ed. E-2 [QR].

#### **MAT 106P. Quantitative Support for MAT 106. (1 Credit)**

I, II. Corequisite: MAT 106. Corequisite support for students in MAT 106. Emphasis placed on prerequisite skills such as real number sense and operations, problem solving, analyzing graphs, mathematical modeling, and critical thinking. 2 Lab.

#### **MAT 110. Intro to Algebraic Functions. (3 Credits)**

I, II. Prerequisite: Completion of all University developmental requirements. Algebraic modeling with linear, quadratic, polynomial, rational, exponential and logarithmic functions, equations, and inequalities. 3 Lec/1 Lab. Gen Ed. E-2 [QR].

#### **MAT 111A. Quantitative Support: MAT 112A. (0.5 Credits)**

I, II. Formerly MAT 112AP. Corequisite: MAT 112A. Corequisite support for students in MAT 112A. Emphasis placed on prerequisite skills such as real number sense and operations, problem solving, analyzing graphs, factoring, exponents, mathematical modeling, and critical reading and thinking. Credit will not be awarded to students who have credit for MAT 112AP. 2 Lab.

#### **MAT 111B. Quantitative Support: MAT 112B. (0.5 Credits)**

I, II. Formerly MAT 112BP. Corequisite: MAT 112B. Corequisite support for students in MAT 112B. Emphasis on prerequisite skills including real number sense and operations, problem solving, graphs, factoring, exponents, logarithms, matrices, sequences, mathematical modeling, and critical reading and thinking. Credit will not be awarded to students who have credit for MAT 112BP. 2 Lab.

#### **MAT 112. Algebra with Applications. (3 Credits)**

(3) I, II. Prerequisite: MAT 098 or MAT 110 with a minimum grade of "C", a minimum score of 22 on the mathematics portion of the ACT, a minimum score of 510 on the mathematics portion of the SAT, or a passing score on an algebra placement test. Students will solve application problems involving linear and quadratic equations, matrices, systems of linear equations, series and sequences, logarithmic and exponential equations; and analyze graphs of linear, quadratic, exponential, logarithmic and power functions. 3 Lec/1 Lab. Gen. Ed. E-2.

#### **MAT 112A. Algebra: Polynomials. (1.5 Credits)**

I, II. Prerequisite/ Corequisite: Satisfaction of English and reading academic readiness indicators and either satisfaction of algebra readiness indicators\* or concurrent enrollment in MAT 111A. Students will solve application problems involving linear, quadratic, and power equations and analyze graphs of linear, quadratic, and power functions. Credit will not be awarded to students who have credit for MAT 112. 3 Lec /1 Lab. Gen. Ed. E-2 [QR]. General Education credit will not be awarded until after successful completion of both MAT 112A and MAT 112B.

**MAT 112AP. Quantitative Support for MAT 112A. (0.5 Credits)**

(.5) I, II. Corequisite: MAT 112A. Corequisite support for students in MAT 112A. Emphasis placed on prerequisite skills such as real number sense and operations, problem solving, analyzing graphs, factoring, exponents, mathematical modeling, and critical reading and thinking. 2 Lab.

**MAT 112B. Algebra: Functions & Matrices. (1.5 Credits)**

I, II. Prerequisite/Corequisite: MAT 112A (C) and either satisfaction of algebra readiness indicators\* or concurrent enrollment in MAT 111B. Students will solve application problems involving matrices, systems of linear equations, series and sequences, logarithmic and exponential equations; and analyze graphs of exponential and logarithmic functions. Credit will not be awarded to students who have credit for MAT 112. 3 Lec /1 Lab. Gen. Ed. E-2 [QR]. General Education credit will not be awarded until after successful completion of both MAT 112A and MAT 112B.

**MAT 112BP. Quantitative Support for MAT 112B. (0.5 Credits)**

(.5) I, II. Corequisite: MAT 112B. Corequisite support for students in MAT 112B. Emphasis on prerequisite skills including real number sense and operations, problem solving, graphs, factoring, exponents, logarithms, matrices, sequences, mathematical modeling, and critical reading and thinking. 2 Lab.

**MAT 114. College Algebra. (3 Credits)**

(3) I, II. Formerly MAT 107. Prerequisite: MAT 098 or MAT 110 with a minimum grade of "C", a minimum score of 22 on the mathematics portion of the ACT, a minimum score of 530 on the mathematics portion of the SAT, or a passing score on an algebra placement test. Real and complex numbers, integer and rational exponents, polynomial and rational equations and inequalities, graphs of functions and relations, exponential and logarithmic functions. Use of graphing calculators. Credit will not be awarded to students who have credit for MAT 107. 3 Lec/1 Lab. Gen Ed. E-2.

**MAT 115. Introduction to Mathematica. (1 Credit)**

I, II. Prerequisite: MAT 112 or 114 with a minimum grade of "C", or a minimum score of 23 on the mathematics portion of the ACT or a minimum score of 550 on the mathematics portion of the SAT. Use of Mathematica. Numeric, algebraic, and symbolic capabilities, two and three dimensional graphics with animation, decisions, looping, and list manipulation.

**MAT 116. Problem Solving with Math. (2 Credits)**

A. Prerequisite: MAT 115. Basic concepts include functional programming, procedural programming, rule-based programming, recursion, numerics, and graphics programming.

**MAT 120. Trigonometry. (3 Credits)**

I, II. Prerequisite: Prerequisite: MAT 112 or 112B or 114 with a grade of "C" or better, or a Math ACT score of 22 or higher, or a Math SAT score of 560 or higher. Radians and degrees, graphs of trigonometric functions, inverse functions, right and oblique triangles, vectors, and real-world applications. Gen. Ed. E-2 [QR].

**MAT 122. Precalculus Mathematics. (5 Credits)**

(5) I, II. Formerly MAT 109. Prerequisite: MAT 112 or 114 with a grade of "C" or better, a minimum score of 23 on the mathematics portion of the ACT, or a minimum score of 550 on the mathematics portion of the SAT. Polynomial, rational, exponential, logarithmic, and trigonometric functions and inverses. Sequences and series, systems of linear and nonlinear equations and inequalities, the complex number system, vectors, the binomial theorem, mathematical induction, and conic sections. Use of graphing calculators. Credit will not be awarded to those students who have credit for MAT 109. Gen. Ed. E2.

**MAT 201. Mathematical Concepts for Middle and Elementary School Teachers I. (3 Credits)**

I, II. Prerequisites: MAT 112 or higher with a grade of "C" or better, and a passing score on a Mastery Exam. (The prerequisite course requirement can be met by a combination of MAT 106 and a 23 or higher on the mathematics portion of the ACT.) Concepts beyond algorithmic computation are emphasized. Sets and functions, whole numbers, integers, rational numbers, decimals and real numbers, numeration, and elementary number theory.

**MAT 202. Mathematical Concepts for Middle and Elementary School Teachers II. (3 Credits)**

I, II. Prerequisites: MAT 201 and another MAT course numbered 112 or higher with a C or better in each and a passing score on a mastery test. (The MAT requirement of a MAT course numbered 112 or higher can be met by a combination of MAT 106 and a 23 or higher on the mathematics portion of the ACT.) Concepts stressed over manipulation. Geometry, measurement, metric system, probability and basic statistics.

**MAT 203. Geometry for 7-12 Teachers. (3 Credits)**

II. Prerequisites: admission to a teacher certification program; and either MAT 244 with a grade of C or better or a combination of four courses: MAE 201; MAE 202; MAE 302 or EME 301; and one of MAT 112, MAT 114, MAT 211, or MAT 234 or 234 H, with a grade of C or better in each course and a combined grade point of 2.75 in the four courses. Angles and their measurement, right triangle trigonometry, perpendicular lines, congruent triangles, circles, arcs, and angles, constructions and loci, area and volume, similarity, graphing, selected topics from analytic geometry.

**MAT 211. Applied Calculus. (3 Credits)**

A. Prerequisite: MAT 112 or 112B or 114 or 120 or 122 with a grade of "C" or better, or a minimum score of 23 on the mathematics portion of the ACT or a minimum score of 550 on the mathematics portion of the SAT. Functions and graphs, differentiation, integration, exponential and logarithmic functions, and applications for business, economics, and science. Credit will not be awarded to students who have credit for MAT 261. Gen. Ed. Element 2.

**MAT 211L. Applied Calculus Lab. (1-2 Credits)**

I, II. Formerly MAT 217. Prerequisite or Corequisite: MAT 211. This optional lab is to accompany a regular lecture class in Applied Calculus. 2-4 Lab. Credit will not be awarded to students who have credit for MAT 217.

**MAT 234. Calculus I. (4 Credits)**

Formerly MAT 124. Prerequisite: MAT 122 with a grade of "C" or better, a minimum score of 27 on the mathematics portion of the ACT, or a minimum score of 640 on the mathematics portion of the SAT or a passing score on a calculus placement test. Functions, limits, and continuity, derivatives and applications, integration, and introduction to and use of the computer package Mathematica or other appropriate technology. Credit will not be awarded to students who have credit for MAT 124. Gen. Ed. E-2.

**MAT 234L. Calculus I Lab. (1-2 Credits)**

I, II. Formerly MAT 217. Prerequisite or Corequisite: MAT 234. This optional lab is to accompany a regular lecture class in Calculus I. 2-4 Lab. Credit will not be awarded to students who have credit for MAT 217.

**MAT 239. Linear Algebra and Matrices. (3 Credits)**

(3) I, II. Formerly MAT 214. Prerequisite: MAT 234 or 234H with a grade of "C" or better. Real and complex vector spaces, linear transformations, matrix theory, with applications, through the introduction of eigenvalues and eigenvectors, determinants, inner product spaces, the use of technology. Credit will not be awarded to students who have credit for MAT 214.

**MAT 244. Calculus II. (4 Credits)**

I, II. Formerly MAT 224. Prerequisite: MAT 234, or 234H with minimum grade of "C" or better. Fundamental integration techniques, numerical integration, applications of integration, improper integrals, differential equations, infinite series, polar and parametric equations, and use of Mathematica or other appropriate technology. Credit will not be awarded to students who have credit for MAT 224, 224H, or 244N.

**MAT 244L. Calculus II Lab. (1-2 Credits)**

I, II. Formerly MAT 218. Prerequisite or Corequisite: MAT 244. This optional lab is to accompany a regular lecture class in Calculus II. 2-4 Lab. Credit will not be awarded to students who have credit for MAT 218.

**MAT 254. Calculus III. (4 Credits)**

I, II. Formerly: MAT 225. Prerequisite: MAT 244 with a minimum grade of "C" or better. Functions of several variables, limits and continuity, partial derivatives, multiple integrals, vector calculus including Green's, Divergence, and Stoke's theorems, cylindrical and spherical coordinates and use of Mathematica. Credit will not be awarded to students who have credit for MAT 225, 225H.

**MAT 254L. Calculus III Lab. (1-2 Credits)**

I, II. Formerly MAT 219. Prerequisite or Corequisite: MAT 254. This optional lab is to accompany a regular lecture class in Calculus III. 2-4 Lab. Credit will not be awarded to students who have credit for MAT 219.

**MAT 301. Logic and Set Theory. (3 Credits)**

A. Prerequisites: MAT 214, 224 or 224H with minimum grades of  $\geq C$  and a grade point average of at least 2.5 in MAT 124, 214, and 224, or departmental approval. Logic, proof techniques, set theory, relations, functions, cardinality, introduction to advanced mathematics.

**MAT 303. Mathematical Models and Applications. (3 Credits)**

II. Prerequisite: A grade of C or higher in MAT 112, 114, 211, 234, or 234H. Prerequisites or Corequisites: MAT 203 with a grade of C or better. The course emphasizes conceptual understanding and communication of mathematical topics through modeling, problem solving, and technology. Topics include algebra, geometry, probability, statistics, and real-world situations. Credit does not count toward the B.S. in mathematics nor the B.S. in mathematics teaching nor the mathematics minor.

**MAT 306. Discrete Mathematics. (3 Credits)**

II. Prerequisites: MAT 239 and 244 each with with a minimum grade of "C" and at least 2.5 GPA in all mathematics courses. Counting principles, permutations, combinations, recurrence relations, graphs, representations of graphs as matrices, trees, networks, difference equations, and linear programming.

**MAT 308. Modern Algebra I. (3 Credits)**

I. Prerequisite: MAT 301 with a minimum grade of "C" (2.0). Groups, cyclic and permutation groups, homomorphisms, subgroups and factor groups, Fundamental Theorem of Finite Abelian Groups, rings, fields, integral domains, and ideals.

**MAT 315. Introduction to Analysis. (3 Credits)**

II. Prerequisite: MAT 301, 225 or MAT 225H with a minimum grade of "C". Real number system, sets and functions, limits, continuity, uniform continuity, Taylor's theorem, laws of the mean, the Riemann integral, allied topics.

**MAT 334. Modern College Geometry I. (3 Credits)**

A. Prerequisite or Corequisite: MAT 301 with a minimum grade of  $\geq C$ .  $\geq$  Euclid's parallel postulate, axiom systems, finite geometries.

**MAT 349. Applied Learning in Mathematics. (0.5-8 Credits)**

I, II; (1-6) SUMMER ONLY. Prerequisite: departmental approval. Work in placements related to academic studies. Credit does not apply to major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment are required for each semester hour of academic credit.

**MAT 349A. Cooperative Study: Mathematics. (0.5-8 Credits)**

(1-8) I, II; (1-6) SUMMER ONLY. Prerequisite: departmental approval. Work in placements related to academic studies. Credit does not apply to major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment are required for each semester hour of academic credit.

**MAT 349B. Cooperative Study: Mathematics. (0.5-8 Credits)**

Work in placements related to academic studies. Credit does not apply to major or minor requirements.

**MAT 349C. Cooperative Study: Mathematics. (0.5-8 Credits)**

Work in placements related to academic studies. Credit does not apply to major or minor requirements.

**MAT 349D. Cooperative Study: Mathematics. (0.5-8 Credits)****MAT 349E. Cooperative Study: Mathematics. (0.5-8 Credits)**

Work in placements related to academic studies. Credit does not apply to major or minor requirements.

**MAT 349F. Cooperative Study: Mathematics. (0.5-8 Credits)**

Work in placements related to academic studies. Credit does not apply to major or minor requirements.

**MAT 353. Differential Equations. (3 Credits)**

A. Prerequisite: MAT 224 or 224H with a minimum grade of  $\geq C$ .  $\geq$  Differential equations of first order, applications, singular solutions, linear equations with constant coefficients, miscellaneous methods for equations of higher order, solution in series, total differential equations, qualitative methods, systems of linear differential equations, the computer algebra systems.

**MAT 380. Mathematics in a Historical. (3 Credits)**

A. Prerequisite or Corequisite: MAT 301 or departmental approval. The history of mathematics from ancient beginnings until modern times is studied through problems and through the lives and times of mathematicians.

**MAT 408. Modern Algebra II. (3 Credits)**

A. Prerequisite: MAT 308 with a minimum grade of  $\geq C$ .  $\geq$  Ring homomorphisms, polynomial rings, unique factorization domains, principal ideal domains, finite fields, field extensions, algebraic extensions, Galois theory, and geometric construction.

**MAT 415. Analysis. (3 Credits)**

A. Prerequisite: MAT 315 with a minimum grade of  $\geq C$ .  $\geq$  The Riemann integral, the Lebesgue integral, metric spaces, differentiation, sequences and series of functions, allied topics.

**MAT 480. Seminar in:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Advanced topics in undergraduate mathematics. May be retaken to a maximum of nine hours, provided the topics are different.

**MAT 495. Independent Work. (1-3 Credits)**

A. Prerequisite: departmental approval. Directed study/ research on a problem or area chosen in consultation with instructor. Final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to maximum of six hours.

**MAT 498. Mathematics Capstone. (1 Credit)**

A. Prerequisite: senior status as a Mathematics major. Designed to enable students to synthesize and integrate their mathematical and statistical knowledge. Students will learn how to conduct research and present the results.

**MAT 501. Applicat of Math for P-9 Teach. (3 Credits)**

A. Prerequisite: MAT 303. Topics in the application of mathematical models appropriate for teachers of grades P-9. Credit does not apply toward B.S. or degree requirements for programs offered within this department.

**MAT 502. Geom with Tech for P-9 Teah. (3 Credits)**

A. Prerequisites: MAT 203 and MAE 305. Topics in geometry appropriate for teachers of grades P-9. Credit does not apply toward either B.S. degree requirements for programs offered within this department.

**MAT 505. Foundations of Mathematics. (3 Credits)**

A. Prerequisite: MAT 308 with a minimum grade of  $\zeta C$ .  $\zeta$  The nature of mathematical thought; logical systems; axiomatic concepts and methods; consideration of the work of Hilbert, Peano, Whitehead, Russell, and others.

**MAT 506. Number Theory. (3 Credits)**

Fundamental properties of integers, linear Diophantine equations, linear and quadratic congruences, famous problems of number theory.

**MAT 507. Seminar in Mathematics:\_\_\_\_. (1-3 Credits)**

Topics vary with offering. May be retaken with advisor approval, provided the topics are different. Credit towards degree requirements will depend on course content.

**MAT 520. Mathematical Statistics I. (3 Credits)**

I. Cross listed as STA 520. Prerequisite: STA 215 or 270. Prerequisite or Corequisite: MAT 254 or 254H. Descriptive statistics, discrete and continuous probability distributions for one and two variables, functions of random variables, sampling distributions, expectations and generating functions. Credit will not be awarded to students who have credit for STA 520.

**MAT 525. Vector Analysis with Applications. (3 Credits)**

A. Prerequisite: MAT 225 or 225H with a minimum grade of  $\zeta C$ .  $\zeta$  Algebra and geometry of vectors; vector functions of a single variable; line, surface, and volume integrals; Divergence Theorem, Stokes  $\zeta$  Theorem, Green  $\zeta$  s Theorem; generalized orthogonal coordinates; Fourier Series; solutions to boundary value problems.

**MAT 527. Cryptology. (3 Credits)**

(3) A. Prerequisites: Senior standing and MAT 301. Classical cryptosystems, basic number theory, DES, Advanced Encryption Standard, RSA, discrete logs, digital signatures, elliptic curve cryptosystem, lattice methods. It is strongly recommended that students have completed a course in proof writing.

**MAT 535. Principles of Geometry. (3 Credits)**

A. Prerequisite: MAT 334 with a minimum grade of "C." Two- and three-dimensional analytical Euclidean geometry, alternate geometries such as hyperbolic, Riemannian, taxicab and affine.

**MAT 540. Applications of Partial Differential Equations. (3 Credits)**

A. Prerequisite: MAT 353 with a minimum grade of "C". Wave, heat/diffusion and potential/Laplace equations, separation of variables, orthogonal sets of functions. Fourier series, boundary value problems, Fourier integrals, maximum principles, the Cauchy problem.

**MAT 550. Applications of Complex Analysis. (3 Credits)**

A. Prerequisite: MAT 225 or 225H or 353 with a minimum grade of  $\zeta C$ .  $\zeta$  Continuity, differentiation, integration, series, residues, and applications to the evaluation of real integrals. Applications of conformal mappings to boundary value problems in heat, electrostatic potential, and fluid flow. Emphasis throughout on computational techniques and applications.

**MAT 555. Graph Theory. (3 Credits)**

A. Prerequisite: MAT 308 or CSC 320 with a minimum grade of  $\zeta C$ .  $\zeta$  Introduction to the theory and applications of graph theory. Topics will include trees, planarity, connectivity, flows, matching, and coloring.

**MAT 560. Point Set Topology. (3 Credits)**

An introduction to topology with emphasis on Euclidean and other metric spaces. Mappings, connectivity, compactness, formation of new spaces, relationship to analysis.

**MAT 565. Mathematics of Structural Bioinformatics. (3 Credits)**

(3) A. Prerequisite: Senior standing, MAT 239, 254 and three hours from CSC 160, 174, 177, or 190. Mathematical and computational approaches to analyze and understand macromolecular structure data. Methods for protein structure determination, refinement, evaluation, comparison, and visualization. Protein surface representation and shape comparison. Structure databases.

**MAT 577. Introduction to Algebraic Coding Theory. (3 Credits)**

(3) A. Prerequisites: Senior standing; MAT 301, or both MAT 214 and departmental approval. Introduction to basic concepts of coding theory, linear codes, perfect codes, cyclic codes, BCH codes, and Reed Solomon codes. Additional topics as time permits. It is strongly recommended that students have completed a course in linear algebra and a course in proof writing.

## Statistics

**STA 215. Introduction to Statistical Reasoning. (3 Credits)**

I, II. Prerequisite: Satisfaction of English and reading academic readiness indicators and either satisfaction of mathematics academic readiness indicators\* or concurrent enrollment in STA 215P. Introduction to descriptive statistics, normal distributions, correlation and linear regression, sampling, experiments, chance phenomena, one- and two-sample estimation and hypothesis testing, chi-square tests, and use of statistical software. Gen. Ed. E-2 [QR].

**STA 215L. StatLab for STA 215. (1 Credit)**

A. Corequisite: STA 215. This optional lab is to accompany a regular lecture class in STA 215; topics will vary. 2 Lab.

**STA 215P. Quantitative Support for STA 215. (1 Credit)**

(1) I, II. Corequisite: STA 215. Corequisite support for students concurrently enrolled in STA 215. Emphasis on prerequisite skills needed for statistics, such as real number sense and operations, equations, analyzing graphs, modeling, critical thinking, and use of statistical software. 2 Lab.

**STA 230. Probability and Statistics for Middle Grades Teachers. (3 Credits)**

Prerequisite: MAT 112, 114, 211, or 234 with a minimum grade of "C". Pre- or Co-requisite: MAE 201. Sampling graphs, percentiles, measures of center and variability, mean absolute deviation, correlation, lines of best fit, probability, geometric probability, independence, simulations, contingency tables, counting, binomial uniform, and normal probability distributions, one-sample inference, manipulatives, presentations, technology.

**STA 270. Applied Statistics. (4 Credits)**

I, II. Prerequisite: MAT 112 or 112B higher with a minimum grade of "C", or a Math SAT score of 23 or higher, or a Math SAT math score of 560 or higher. Descriptive statistics, probability, counting techniques, discrete and continuous distributions, binomial distributions, normal distributions, sampling distributions, one- and two-sample estimation and hypothesis testing, chi-square tests, correlation, linear regression, analysis of variance, and use of statistical software. Gen. Ed. E-2 [QR].

**STA 270L. StatLab for STA 270:\_\_\_ (1 Credit)**

A. Prerequisite/Corequisite: STA 270. This optional lab is to accompany a regular lecture class in STA 270: topics will vary. 2 Lab.

**STA 340. Applied Regression Analysis. (3 Credits)**

I, II. Prerequisite: STA 270 with a minimum grade of "C"; or STA 215 with a minimum grade of "B" and one of the following: MAT 112 or 112B or higher with a Grade of "C" a Math ACT score of 23 or higher, or a Math SAT score of 560 or higher; or departmental approval. Simple and multiple regression, model building, variable screening methods, detection and management of multicollinearity, residual analysis, logistic regression, classical time series analysis, and use of statistical software. Credit will not be awarded to students who have credit for STA 320.

**STA 349. Applied Learning in Statistics. (0.5-8 Credits)**

I, II; (1-6) SUMMER ONLY. Prerequisite: departmental approval. Work in placements related to academic studies. Does not apply to major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment is required for each semester hour of academic credit.

**STA 349A. Cooperative Study: Statistics. (0.5-8 Credits)**

I, II. (1-6) SUMMER ONLY. Prerequisite: departmental approval. Work in placements related to academic studies. Does not apply to major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment is required for each semester hour of academic credit.

**STA 349B. Cooperative Study: Statistics. (0.5-8 Credits)**

Work in placements related to academic studies. Does not apply to major or minor requirements.

**STA 349C. Cooperative Study: Statistics. (0.5-8 Credits)**

Work in placements related to academic studies. Does not apply to major or minor requirements.

**STA 349D. Cooperative Study: Statistics. (0.5-8 Credits)**

Work in placements related to academic studies. Does not apply to major or minor requirements.

**STA 349E. Cooperative Study: Statistics. (0.5-8 Credits)**

Work in placements related to academic studies. Does not apply to major or minor requirements.

**STA 375. Sampling Methods. (3 Credits)**

A. Prerequisite: STA 270 with a minimum grade of "C"; or STA 215 with a minimum grade of "B", and one of the following: MAT 112 or 112B or higher with a minimum grade of "C" or a Math ACT score of 23 or higher, or a score of 560 or higher; or departmental approval. Basic concepts of sampling theory, simple random sampling, stratified random sampling, cluster sampling, systematic sampling, ratio and regression estimation, applications to surveys, and use of statistical software. Written and/or oral presentations required.

**STA 380. Nonparametric Statistics. (3 Credits)**

Prerequisite: STA 270 with a minimum grade of "C"; or STA 215 with a minimum grade of "B" and one of the following: MAT 112 or 112B or higher with a Grade of "C" a Math ACT score of 23 or higher, or a Math SAT score of 560 or higher; or departmental approval. Simple, efficient nonparametric methods without normality assumptions. Tests, estimation of proportions, medians, two-sample location/dispersion, one and two-way layout, independence, regression, and use of statistical software. Credit will not be awarded to students who have credit for STA 501.

**STA 382. Probability for Actuaries. (1 Credit)**

A. Prerequisite: STA 370 or 520. Review of elementary probability theory, univariate and multivariate probability distributions, moment generating functions, transformations, order statistics, and applications of probability concepts in a risk management context. Preparation for Exam P.

**STA 470. Applied Probability. (3 Credits)**

Formerly STA 370. Prerequisites: Mat 244 of 244H or 254 or 254H; and STA 215 or 270; or departmental approval. Intuitive and axiomatic development of probability, set theory, counting techniques, conditional probability, Bayes Theorem, discrete distributions including univariate and bivariate cases, multinomial distributions, Markov Chains, and emphasis on applications. Credit will not be awarded to students who have credit for STA 370.

**STA 480. Seminar in \_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topic announced at the time of offering. May be retaken to a maximum of 12 hours, provided the topics are different.

**STA 485. Probability for Actuaries. (2 Credits)**

A. Formerly STA 385. Prerequisite: STA 470, MAT 520 or STA 520. Review of elementary probability theory, univariate and multivariate probability distributions, moment generating functions, transformations, order statistics, and applications of probability concepts in a risk management context. Preparation for Actuarial Exam P. Credit will not be awarded to students who have credit for STA 385.

**STA 495. Independent Work. (1-3 Credits)**

A. Prerequisite: departmental approval. Directed study/ research on a problem or area chosen in consultation with instructor. Final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

**STA 498W. Statistics Capstone. (3 Credits)**

A. Prerequisite or corequisite: MAT 520 (C) or STA 520 (C), senior standing, Statistics majors only. Careers in statistics, advanced topics in statistics, statistical research, statistical consulting, written and verbal communication skills, use of presentation software, and use of statistical software. Credit will not be awarded to students who have credit for STA 498.

**STA 507. Seminar in Statistics:\_\_\_ (1-3 Credits)**

A. Prerequisite: departmental approval. Topics vary with offering. May be retaken with advisor approval, provided that the topics are different. Credit toward degree requirements will depend on the course content.

**STA 520. Mathematical Statistics I. (3 Credits)**

I. Cross-listed as MAT 520. Prerequisites: STA 215 or 270. Prerequisite or Corequisite: MAT 254 or 254H. Descriptive statistics, discrete and continuous probability distributions for one and two variables, functions of random variables, sampling distributions, expectations and generating functions. Credit will not be awarded to students who have credit for MAT 520.

**STA 521. Mathematical Statistics II. (3 Credits)**

II. Prerequisites: MAT 239; MAT 520 or STA 520. A continuation of STA 520. Estimation theory, hypothesis testing, linear regression analysis of variance, and allied topics.

**STA 570. Quality Control & Reliability. (3 Credits)**

(3) A. Prerequisites: Senior standing, MAT 234 or 234H, and STA 340. Analysis of six sigma techniques, statistical analysis of process capability, statistical process control using control charts, quality improvement, acceptance sampling, and an introduction to product reliability.

**STA 575. Statistical Methods Using SAS. (3 Credits)**

A. Prerequisite: STA 270 with a minimum grade of "C"; or STA 215 with a minimum grade of "B", and one of the following: MAT 112 or 112B or higher with a minimum grade of "C" or a Math ACT score of 23 or higher, or a Math SAT score of 560 or higher; or departmental approval. Data set manipulation, application of statistical techniques in SAS, and statistical programming.

**STA 580. R and Introductory Data Mining. (3 Credits)**

A. Cross-listed as DSC 580. Prerequisite: STA 270 with a minimum grade of "C", or 215 with a minimum grade of "B", and CSC 170 or 174 or 189 or 190. Data set manipulation, application of statistical techniques in R, statistical programming, and data mining skills. Credit will not be awarded to students who have credit for DSC 580.

**STA 585. Experimental Design. (3 Credits)**

A. Prerequisites: STA 270 or departmental approval. Completely randomized designs, factorial experiments, multiple comparisons, model diagnostics, randomized blocks, latin squares, fixed and random models, nested-factorial experiments, 2f factorial experiments, and split-plot designs. Emphasis on applications and use of statistical software.

## Actuarial Science, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
MAT 234	Calculus I	4
MAT 244	Calculus II	4
MAT 520 or STA 520	Mathematical Statistics I Mathematical Statistics I	3
STA 270	Applied Statistics	4
STA 340	Applied Regression Analysis	3
STA 470	Applied Probability	3
STA 485	Probability for Actuaries	2
<b>Total Hours</b>		<b>23</b>

## Applied Data Science, Certificate Program Requirements

CIP Code: 27.9999

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Introductory Statistics Requirements</i>		
STA 270 or STA 215	Applied Statistics Introduction to Statistical Reasoning	3-4
<i>Core Courses</i>		
MAT 234	Calculus I	4
DSC 580 or STA 580	R and Introductory Data Mining R and Introductory Data Mining	3
Choose from one of the following:		3
CSC 170	Intro to Game Programming	
CSC 174	Introduction to Programming for Science & Engineering	
CSC 189	Computing Concepts and Programming	
CSC 190	Object- Oriented Programming I	
MAT 239 or STA 340	Linear Algebra and Matrices Applied Regression Analysis	3
<i>Statistics/Data Science Elective</i>		
Choose from three hours of the following:		3
DSC 390	Sports Analytics	
STA 375	Sampling Methods	
STA 480	Seminar in ___ (approved topics)	
STA 570	Quality Control & Reliability	
STA 575	Statistical Methods Using SAS	
<i>Domain Knowledge Electives</i>		
Choose two courses from one of the following categories:		6-7
<i>Anthropology and Sociology:</i>		
ANT 371	Primate Ecology & Sociality	
SOC 232	Social Statistics	
SOC 310	Population and Society	
SOC 395	Research Methods in Sociology	
<i>Biology and Environmental Health Sciences:</i>		
EHS 280 & EHS 370	One Health: Global Environmental Public Health and Environmental Disease Detectives: Epidemiology	
BIO 315 & BIO 533	Genetics and Bioinformatics: Principles and Applications <sup>1</sup>	
BIO 316 & BIO 532	Ecology and Conservation Biology <sup>1</sup>	
<i>Computer Information Systems:</i>		
CIS 335	Data Base Management <sup>1</sup>	
CIS 430 or BUS 304	Business Data Mining Essentials of MIS	
<i>Computer Science and Informatics:</i>		
CSC 310	Data Structures <sup>1</sup>	
CSC 313	Database Systems <sup>1</sup>	
CSC 581	Machine Learning	
INF 314	MS Office & Data Analysis <sup>1</sup>	
<i>Government:</i>		
POL 280	Research and Writing in Political Science <sup>1</sup>	
POL 400W	Capstone Course in Political Science	
POL 440	Public Opinion & Voting Behavior	
<i>Geosciences:</i>		

GEO 351	Geoscience Data and Techniques <sup>1</sup>
GEO 353	Geographic Information Systems
GEO 453	Advanced GIS
GEO 456	Remote Sensing
GEO 458	Advanced Geographic Imagery
Physics:	
PHY 315	Electrical Circuits <sup>1</sup>
PHY 406	<sup>1</sup>
PHY 460	Classical Mechanics
Psychology:	
PSY 240	Scientific Literacy in Psychology <sup>1</sup>
PSY 315	Sensation and Perception or PSY 315L Sensation and Perception Lab
PSY 340W	Research Literacy in Psychology
PSY 590	Tests and Measurements
<b>Total Hours</b>	<b>25-27</b>

1

Requires a pre-requisite course

## Data Science and Statistics, Bachelor of Science (B.S.)

### Program Objectives

Upon successful completion of this program, the graduate will:

1. understand the applications and use of data science and statistics in everyday life;
2. be able to apply a wide variety of statistical techniques;
3. be able to analyze large, complex data sets;
4. use computer packages to perform statistical analyses;
5. be well qualified for employment in industry, government, and the actuarial profession; and
6. be prepared to pursue graduate work in data science or statistics.

### Program Requirements

CIP Code: 27.0501

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A: Written Communication (p. 62)		3
B: Written Communication (p. 62)		3
C: Oral Communication (p. 62)		3
<b>Element 2</b>		
Quantitative Reasoning (p. 63)		3
<b>Element 3</b>		
A: Arts (p. 63)		3
B: Humanities (p. 63)		3
<b>Element 4</b>		
Natural Sciences (p. 64)		6
<b>Element 5</b>		
A: Historical Science (p. 64)		3
B: Social Behavioral Science (p. 64)		3

#### Element 6

Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

#### Major

Only courses completed with a grade of at least a "C" will count toward the major requirements.

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100M	Student Success Seminar in Mathematics and Statistics (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hours distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Data Science and Statistics majors will fulfill ACCT with the following. (Credit hours are incorporated into Major requirements.)		
STA 498W	Statistics Capstone	
<b>Major Requirements</b>		
<i>Core Courses</i>		
MAT 239	Linear Algebra and Matrices	3
MAT 244	Calculus II	4
STA 270	Applied Statistics	4
STA 340	Applied Regression Analysis	3
STA 498W	Statistics Capstone	3
Choose from nine hours of the following:		
DSC 390	Sports Analytics	
DSC 580	R and Introductory Data Mining <sup>1</sup>	
STA 375	Sampling Methods	
STA 380	Nonparametric Statistics	
STA 470	Applied Probability	
STA 520	Mathematical Statistics I <sup>2</sup>	
STA 521	Mathematical Statistics II <sup>2</sup>	
STA 570	Quality Control & Reliability	
STA 575	Statistical Methods Using SAS <sup>1</sup>	
STA 580	R and Introductory Data Mining <sup>1</sup>	
STA 585	Experimental Design	
Choose from three hours of CSC, DSC, MAT, STA courses numbered 300 or above <sup>3</sup>		
<i>Major Electives</i>		
Choose from one of the following combinations: <sup>4</sup>		
Data Science:		
CSC 210 & CSC 581	Data Structures and Programming and Machine Learning	
Discrete Mathematics:		
MAT 306 & STA 470	Discrete Mathematics and Applied Probability	
Statistics:		
STA 521	Mathematical Statistics II <sup>2</sup>	

STA 585	Experimental Design	
<b>Supporting Course Requirements</b>		
Choose from one of the following:		3
CSC 170	Intro to Game Programming	
CSC 174	Introduction to Programming for Science & Engineering	
CSC 189	Computing Concepts and Programming	
CSC 190	Object- Oriented Programming I	
ENG 300	Introduction to Technical and Professional Writing	3
or ENG 300S	Intro to Tech/Prof Writing	
MAT 234	Calculus I (Element 2) <sup>G,5</sup>	4
Choose from one of the following:		0-3
PHI 130	Beginning Ethics (Element 3B) <sup>G</sup>	
PHI 130S	Beginning Ethics (Element 3B) <sup>G</sup>	
PHI 362	Technology and Values	
<b>Domain Knowledge Component</b>		
Choose two courses from one of the following categories:		6-7
<b>Anthropology and Sociology:</b>		
ANT 371	Primate Ecology & Sociality	
SOC 232	Social Statistics	
SOC 310	Population and Society	
SOC 395	Research Methods in Sociology	
<b>Biology and Environmental Health Sciences:</b>		
EHS 280 & EHS 370	One Health: Global Environmental Public Health and Environmental Disease Detectives: Epidemiology	
BIO 315 & BIO 533	Genetics and Bioinformatics: Principles and Applications <sup>2</sup>	
BIO 316 & BIO 532	Ecology and Conservation Biology <sup>2</sup>	
<b>Computer Information Systems:</b>		
CIS 335	Data Base Management <sup>2</sup>	
CIS 430	Business Data Mining	
or BUS 304	Essentials of MIS	
<b>Computer Science and Informatics:</b>		
CSC 310	Data Structures <sup>2</sup>	
CSC 313	Database Systems <sup>2</sup>	
INF 314	MS Office & Data Analysis <sup>2</sup>	
<b>Government:</b>		
POL 280	Research and Writing in Political Science <sup>2</sup>	
POL 400W	Capstone Course in Political Science <sup>2</sup>	
POL 440	Public Opinion & Voting Behavior	
<b>Geosciences:</b>		
GEO 351	Geoscience Data and Techniques <sup>2</sup>	
GEO 353	Geographic Information Systems	
GEO 453	Advanced GIS	
GEO 456	Remote Sensing	
GEO 458	Advanced Geographic Imagery	
<b>Physics:</b>		
PHY 315	Electrical Circuits <sup>2</sup>	
PHY 406	<sup>2</sup>	
PHY 460	Classical Mechanics <sup>2</sup>	
<b>Psychology:</b>		

PSY 240	Scientific Literacy in Psychology <sup>2</sup>	
PSY 315	Sensation and Perception	
	or PSY 315L Sensation and Perception Lab	
PSY 340W	Research Literacy in Psychology	
PSY 590	Tests and Measurements	
<b>Advisor-Approved:</b>		
Two advisor-approved courses from a department other than the Department of Mathematics and Statistics		
<b>Free Electives</b>		
Choose from 32-35 hours of free electives		32-35
<b>Total Hours</b>		<b>120-127</b>

1. Must include at least one of DSC 580 R and Introductory Data Mining or STA 575 Statistical Methods Using SAS or STA 580 R and Introductory Data Mining
2. Requires a pre-requisite course
3. Excluding: any 349 courses, MAT 303 Mathematical Models and Applications, STA 500 . STA 480 Seminar in \_\_\_ will count for only approved topics.
4. Courses will not count in both the Core and Major Electives categories.
5. Three hours count toward Element 2<sup>G</sup>
- G**  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

## Data Science and Statistics, Bachelor of Science (B.S.) & Applied Mathematics, Master of Arts (M.A.) Accelerated 3+2 Dual Degree Program

Students accepted to the 3+2 Accelerated Dual Degree Option are able to complete their BS degree and MS degree within 5 calendar years because of the accelerated curriculum; nine semester hours of graduate coursework will apply to both the undergraduate BS degree and the graduate MS degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required. Depending upon undergraduate progress at the time of 3+2 admission, some summer school classes may be needed.

### Admission Requirements for the 3+2 Program:

**Students interested in this program must satisfy all the following conditions:**

1. Have Junior or Senior standing

2. Have an overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Be approved by both the Department of Mathematics and Statistics and the Graduate School (see the 3+2 Enrollment Approval Form at <http://gradschool.eku.edu/graduate-school-forms>)
4. Maintain an overall undergraduate and graduate GPA of at least 3.0 to continue each semester with 3+2 coursework
5. Have an institutional undergraduate and graduate GPA of at least 3.0 to be allowed to move into graduate student status after earning the B.S. Data Science and Statistics degree.

## Program Requirements

CIP Code: 27.0501

Students in the 3+2 Accelerated Dual Degree Option must complete the Data Science and Statistics (B.S.) program requirements listed below, with at least a 3.0 GPA, and must apply and be approved to graduate with that degree before being admitted as a graduate student and allowed to proceed to the M.A. in Applied Mathematics program. Nine credit hours of graduate coursework (MAT/STA 720, STA 775, and MAT 865) will be applicable to the undergraduate degree.

Upon successful completion of this program, the graduate will: (1) understand the applications and use of data science and in data science or statistics in everyday life; (2) be able to apply a wide variety of statistical techniques; (3) be able to analyze large, complex data sets; (4) use computer packages to perform statistical analyses; (5) be well qualified for employment in industry, government, and the actuarial profession; and (6) be prepared to pursue graduate work in data science or statistics.

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Only courses completed with a grade of at least a “C” will count toward the major requirements.

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100M	Student Success Seminar in Mathematics and Statistics (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hours distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Data Science and Statistics majors will fulfill ACCT with the following. (Credit hours are incorporated into Major requirements.)		
STA 498W	Statistics Capstone	
<b>Major Requirements</b>		
<i>Core Courses</i>		
MAT 239	Linear Algebra and Matrices	3
MAT 244	Calculus II	4
STA 270	Applied Statistics	4
STA 340	Applied Regression Analysis	3
STA 498W	Statistics Capstone	3
MAT 720	Mathematical Statistics I	3
or STA 720	Mathematical Statistics I	
STA 775	Statistics Methods Using SAS	3
MAT 865	Applied Linear Algebra	3
Choose from three hours of CSC, DSC, MAT, STA courses numbered 300 or above <sup>3</sup>		3
<i>Major Electives</i>		
Choose from one of the following combinations: <sup>4</sup>		6
<b>Data Science:</b>		
CSC 210 & CSC 581	Data Structures and Programming and Machine Learning	
<b>Discrete Mathematics:</b>		
MAT 306 & STA 470	Discrete Mathematics and Applied Probability	
<b>Statistics:</b>		
STA 521	Mathematical Statistics II <sup>2</sup>	
STA 585	Experimental Design	
<i>Supporting Course Requirements</i>		
Choose from one of the following:		3
CSC 170	Intro to Game Programming	
CSC 174	Introduction to Programming for Science & Engineering	
CSC 189	Computing Concepts and Programming	
CSC 190	Object- Oriented Programming I	
ENG 300	Introduction to Technical and Professional Writing	3
or ENG 300S	Intro to Tech/Prof Writing	
MAT 234	Calculus I (Element 2) <sup>G,5</sup>	4
Choose from one of the following:		0-3
PHI 130	Beginning Ethics (Element 3B) <sup>G</sup>	
PHI 130S	Beginning Ethics (Element 3B) <sup>G</sup>	

PHI 362	Technology and Values	
<i>Domain Knowledge Component</i>		
Choose two courses from one of the following categories:		6-7
Anthropology and Sociology:		
ANT 371	Primate Ecology & Sociality	
SOC 232	Social Statistics	
SOC 310	Population and Society	
SOC 395	Research Methods in Sociology	
Biology and Environmental Health Sciences:		
EHS 280 & EHS 370	One Health: Global Environmental Public Health and Environmental Disease Detectives: Epidemiology	
BIO 315 & BIO 533	Genetics and Bioinformatics: Principles and Applications <sup>2</sup>	
BIO 316 & BIO 532	Ecology and Conservation Biology <sup>2</sup>	
Computer Information Systems:		
CIS 335	Data Base Management <sup>2</sup>	
CIS 430	Business Data Mining	
or BUS 304	Essentials of MIS	
Computer Science and Informatics:		
CSC 310	Data Structures <sup>2</sup>	
CSC 313	Database Systems <sup>2</sup>	
INF 314	MS Office & Data Analysis <sup>2</sup>	
Government:		
POL 280	Research and Writing in Political Science <sup>2</sup>	
POL 400W	Capstone Course in Political Science <sup>2</sup>	
POL 440	Public Opinion & Voting Behavior	
Geosciences:		
GEO 351	Geoscience Data and Techniques <sup>2</sup>	
GEO 353	Geographic Information Systems	
GEO 453	Advanced GIS	
GEO 456	Remote Sensing	
GEO 458	Advanced Geographic Imagery	
Physics:		
PHY 315	Electrical Circuits <sup>2</sup>	
PHY 406	<sup>2</sup>	
PHY 460	Classical Mechanics <sup>2</sup>	
Psychology:		
PSY 240	Scientific Literacy in Psychology <sup>2</sup>	
PSY 315	Sensation and Perception	
or PSY 315L	Sensation and Perception Lab	
PSY 340W	Research Literacy in Psychology	
PSY 590	Tests and Measurements	
Advisor-Approved:		
Two advisor-approved courses from a department other than the Department of Mathematics and Statistics		
<i>Free Electives</i>		
Choose from 32-35 hours of free electives		32-35
<b>Total Hours</b>		<b>120-127</b>

1  
Must include at least one of DSC 580 R and Introductory Data Mining or STA 575 Statistical Methods Using SAS or STA 580 R and Introductory Data Mining

2  
Requires a pre-requisite course

3  
Excluding: any 349 courses, MAT 303 Mathematical Models and Applications, STA 500 . STA 480 Seminar in \_\_\_ will count for only approved topics.

4  
Courses will not count in both the Core and Major Electives categories.

5  
Three hours count toward Element 2<sup>G</sup>

G  
Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

### Applied Mathematics, Master of Arts (M.A.)

See Applied Mathematics, Master of Arts with a Concentration in Applied Mathematics and Statistics (M.A.) (p. 819), Applied Mathematics, Master of Arts with a Concentration in Data Science (M.A.) (p. 820), or Applied Mathematics, Master of Arts with a Concentration in Secondary Mathematics (M.A.) (p. 821)

## Mathematical Sciences, Minor Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
Choose from six hours of the following:		6
CSC 170	Intro to Game Programming	
CSC 174	Introduction to Programming for Science & Engineering	
CSC 189	Computing Concepts and Programming	
CSC 190	Object- Oriented Programming I	
CSC 191	Object- Oriented Programming II	
MAT 234	Calculus I	4
MAT 244	Calculus II	4
STA 270	Applied Statistics	4
STA 340	Applied Regression Analysis	3
<b>Total Hours</b>		<b>21</b>

## Mathematics, Bachelor of Science with a Concentration in General Mathematics (B.S.)

### Program Objectives

Upon successful completion of this program, the graduate will:

1. be able to apply mathematical techniques to social, economic, and scientific problems;

2. understand the importance and power of mathematics in our rapidly changing technological age;
3. be prepared to pursue a graduate program in this or a related area; and
4. be well qualified for employment in any position requiring undergraduate training in mathematics.

In addition, students in the Teaching concentration will be prepared for certification to teach mathematics at the secondary level. Refer to the College of Education section of this *Catalog* regarding several teacher certification requirements associated with this degree program.

## Program Requirements

CIP Code: 27.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
SCO 100M	Student Success Seminar in Mathematics and Statistics (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives categories)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT – Mathematics majors will fulfill ACCT requirements with any of the following. (Credit hours may be incorporated into Major or Supporting Course requirements.)	
CED 499	Clinical VI: The Professional Semester	
	A 349 Co-op experience in any subject area	
	A program-approved service-learning course	
	A program-approved undergraduate scholarly or creative activity	

HON 420	Thesis Project and Seminar (with a program-approved thesis topic)	
	A program-approved leadership experience	
	A program-approved study abroad experience	
<b>Major Requirements</b> <sup>i, ii, iii</sup>		
<i>Core Courses</i>		
MAT 234	Calculus I	4
MAT 239	Linear Algebra and Matrices	3
MAT 244	Calculus II	4
MAT 254	Calculus III	4
MAT 301	Logic and Set Theory	3
MAT 308	Modern Algebra I	3
MAT 315	Introduction to Analysis	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		15-18
General Mathematics		
Mathematics Teaching		
<i>Supporting Course Requirements</i>		
Choose from one of the following:		3
CSC 170	Intro to Game Programming	
CSC 174	Introduction to Programming for Science & Engineering	
CSC 189	Computing Concepts and Programming	
CSC 190	Object- Oriented Programming I	
STA 270	Applied Statistics (Element 2) <sup>G</sup>	1
<i>Free Electives</i>		
Choose from 3-39 hours of free electives		3-39
Students planning to attend a graduate school in mathematics are strongly encouraged to select an in-depth study of a single foreign language as a part of their program.		
<b>Total Hours</b>		<b>83-122</b>

1

Three hours count toward Element 2<sup>G</sup>

G

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

i.

No course may be used to satisfy more than one lettered category below.

ii.

At least five upper-division courses which satisfy the major requirements (including core and concentration) must be completed at ECU.

iii.

Only courses completed with a grade of at least "C" will count toward the major requirements (including core and concentration).

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
MAT 408	Modern Algebra II	3
or MAT 415	Analysis	
MAT 498	Mathematics Capstone	1-3
or STA 498W	Statistics Capstone	

Choose from one of the following:	3
MAT 408      Modern Algebra II	
MAT 415      Analysis	
Any MAT course numbered 505 or above <sup>1</sup>	
Choose from nine hours of the following:	9
CSC 320      Algorithms II	
Any MAT course numbered 300 or above <sup>2</sup>	
Any STA course numbered 300 or above <sup>3</sup>	
<b>Total Hours</b>	<b>16-18</b>

<sup>1</sup>  
MAT 507 Seminar in Mathematics:\_\_\_ only with department approval

<sup>2</sup>  
Except for MAT 301 Logic and Set Theory, MAT 303 Mathematical Models and Applications, MAT 308 Modern Algebra I, MAT 315 Introduction to Analysis, and MAT 349 Applied Learning in Mathematics

<sup>3</sup>  
Except for STA 349 Applied Learning in Statistics . No more than six hours of STA courses may be used to fulfill this requirement.

# Mathematics, Bachelor of Science with a Concentration in Mathematics Teaching (B.S.)

## Program Objectives

Upon successful completion of this program, the graduate will:

1. be able to apply mathematical techniques to social, economic, and scientific problems;
2. understand the importance and power of mathematics in our rapidly changing technological age;
3. be prepared to pursue a graduate program in this or a related area; and
4. be well qualified for employment in any position requiring undergraduate training in mathematics.

In addition, students in the Teaching concentration will be prepared for certification to teach mathematics at the secondary level. Refer to the College of Education section of this *Catalog* regarding several teacher certification requirements associated with this degree program.

## Program Requirements

CIP Code: 27.0101

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3

<b>Element 4</b>	
Natural Sciences (p. 64)	6
<b>Element 5</b>	
A: Historical Science (p. 64)	3
B: Social Behavioral Science (p. 64)	3
<b>Element 6</b>	
Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>	<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100M	Student Success Seminar in Mathematics and Statistics (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives categories)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Mathematics majors will fulfill ACCT requirements with any of the following. (Credit hours may be incorporated into Major or Supporting Course requirements.)		
CED 499	Clinical VI: The Professional Semester	
A 349 Co-op experience in any subject area		
A program-approved service-learning course		
A program-approved undergraduate scholarly or creative activity		
HON 420	Thesis Project and Seminar (with a program-approved thesis topic)	
A program-approved leadership experience		
A program-approved study abroad experience		
<b>Major Requirements <sup>i, ii, iii</sup></b>		
<i>Core Courses</i>		
MAT 234	Calculus I	4
MAT 239	Linear Algebra and Matrices	3
MAT 244	Calculus II	4
MAT 254	Calculus III	4
MAT 301	Logic and Set Theory	3
MAT 308	Modern Algebra I	3
MAT 315	Introduction to Analysis	3

<b>Concentrations</b>	
Students must select one of the following Concentrations:	
General Mathematics	
Mathematics Teaching	55
<i>Supporting Course Requirements</i>	
Choose from one of the following:	
CSC 170	Intro to Game Programming
CSC 174	Introduction to Programming for Science & Engineering
CSC 189	Computing Concepts and Programming
CSC 190	Object- Oriented Programming I

STA 270	Applied Statistics <sup>G,3</sup>	
<i>Free Electives</i>		
Choose from 1-39 hours of free electives		1-39
Students planning to attend a graduate school in mathematics are strongly encouraged to select an in-depth study of a single foreign language as a part of their program.		
<b>Total Hours</b>		<b>120-158</b>

1

Three hours count toward Element 2<sup>G</sup>**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

**i.**

No course may be used to satisfy more than one lettered category below.

**ii.**

At least five upper-division courses which satisfy the major requirements (including core and concentration) must be completed at ECU.

**iii.**

Only courses completed with a grade of at least "C" will count toward the major requirements (including core and concentration).

**Concentration**

The student must meet the 2.75 GPA requirement listed in the College of Education section under The Office of Teacher Education Services.

Code	Title	Hours
<b>Concentration Courses</b>		
MAE 303	Math Models and Applications	3
MAE 305	Problem Solving and Technology	3
MAT 203	Geometry for 7-12 Teachers	3
Choose six hours from the following:		6
CSC 320	Algorithms II	3
any MAT course numbered 300 or above <sup>1</sup>		
any STA course numbered 300 or above <sup>2</sup>		

*Professional Education Requirement*

EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	3
ESE 550	Teaching Mathematics in the Secondary School	3
or MAE 550	Teaching Mathematics in the Secondary School	
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	

*Clinical Experiences:*

CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9

Appropriate PRAXIS exams must be completed for each area of certification being recommended.

*Exit Requirements***PRAXIS Examination**

Students in the Mathematics Teaching concentration must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. The PRAXIS exam must be taken prior to student teaching.

**Total Hours****55**

1

Except for MAT 301 Logic and Set Theory, MAT 303 Mathematical Models and Applications, MAT 308 Modern Algebra I, MAT 315 Introduction to Analysis, and, MAT 349 Applied Learning in Mathematics

2

Except for STA 349 Applied Learning in Statistics

**G**

Course also satisfies a General Education element. Hours are included within the 36 hours in General Education.

## Mathematics, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
MAT 234	Calculus I	4
MAT 244	Calculus II	4
Choose from 10 hours of the following:		10
MAT 239	Linear Algebra and Matrices	
MAT 254	Calculus III	
STA 470	Applied Probability <sup>1</sup>	
STA 520	Mathematical Statistics I <sup>1</sup>	
Any MAT course numbered 300 or above <sup>1,2</sup>		
<b>Total Hours</b>		<b>18</b>

1

Only one of MAT 520 Mathematical Statistics I, STA 470 Applied Probability, and STA 520 Mathematical Statistics I may count toward the minor.

2

Except for MAT 303 Mathematical Models and Applications, MAT 349 Applied Learning in Mathematics, and MAT 480 Seminar in:\_\_\_

MAT 480 Seminar in:\_\_\_ may be approved to count toward the minor depending on the topic chosen .

## Mathematics/Teaching, Minor

All courses must be completed with a grade of at least "C" and the GPA in the courses used for the minor must be at least 2.75. The teaching minor in mathematics must be coupled with a secondary teaching major in another discipline. Students enrolled in another teaching program who desire teaching certification in mathematics will be required to take MAE 550 Teaching Mathematics in the Secondary School or ESE 550 Teaching Mathematics in the Secondary School and student teach in mathematics. Appropriate PRAXIS exams must be completed for each

area of certification being recommended. The PRAXIS exams must be taken prior to student teaching.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
MAT 234	Calculus I	4
MAT 239	Linear Algebra and Matrices	3
MAT 244	Calculus II	4
MAT 301	Logic and Set Theory	3
MAT 334	Modern College Geometry I	3
STA 270	Applied Statistics	4
<b>Total Hours</b>		<b>21</b>

## Statistics, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
<i>Core Courses</i>		
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	
STA 340	Applied Regression Analysis	3
Choose from six hours of STA courses numbered 300 or above <sup>1,2</sup>		6
<i>Electives</i>		
Choose from one of the following options: <sup>1</sup>		6-8
Option 1:		
Choose from six hours of STA courses numbered 300 or above <sup>2</sup>		
Option 2:		
Choose from three hours of STA courses numbered 300 or above <sup>2</sup>		
Choose from one CSC course <sup>3</sup>		
Option 3:		
Choose from three hours of STA courses numbered 300 or above <sup>2</sup>		
MAT 211	Applied Calculus	
or MAT 234	Calculus I	
Option 4:		
MAT 211	Applied Calculus	
or MAT 234	Calculus I	
MAT 244	Calculus II	
Option 5:		
Choose from three hours of CSC courses <sup>3</sup>		
MAT 211	Applied Calculus	
or MAT 234	Calculus I	
<b>Total Hours</b>		<b>18-21</b>

<sup>1</sup> No course may be used to satisfy both Core and Elective requirements above.

<sup>2</sup> Except for STA 340 Applied Regression Analysis, STA 349 Applied Learning in Statistics, or STA 500. STA 480 Seminar in \_\_\_ will only count toward the minor when the topic is approved for the minor.

<sup>3</sup> Except for CSC 101 The World of Code or CSC 349 Applied Learning in Computer Science

## Department of Physics, Geosciences, and Astronomy

### Interim Chair

Dr. Alice Jones  
(859) 622-1521  
NSB 3140

### Faculty

A. Blose, W. Borowski, H. Cabaniss, G. Campbell, M. Ciocca, M. Dieckmann, J. Fry, T. Huffman, T. Jarvis, A. Jones, J. Lair, J. Malzone, M. Pitts, J. Ross, J. Wang, K. Watson, J. White, G. Yoder, and D. Yow.

### Bachelor's

- Environmental and Applied Geology, Bachelor of Science with a Concentration in Academic (B.S.) (p. 552)
- Environmental and Applied Geology, Bachelor of Science with a Concentration in Professional (B.S.) (p. 554)
- Physics, Bachelor of Science with a Concentration in Engineering Physics (B.S.) (p. 557)
- Physics, Bachelor of Science with a Concentration in Physics (General) (B.S.) (p. 558)
- Physics, Bachelor of Science with a Concentration in Physics Teaching (B.S.) (p. 559)

### Associate's

*No results were found.*

### Minor

- Earth Science/Teaching, Minor (p. 552)
- Environmental Geosciences, Minor (p. 555)
- Geography, Minor (p. 556)
- Geology, Minor (p. 556)
- Physics, Minor (p. 561)
- Physics/Teaching, Minor (p. 561)

### Certificate

- Geographic Information Systems, Certificate (p. 556)

### Courses

#### Astronomy

**AST 130. Introductory Astronomy. (3 Credits)**  
I, II. Prerequisite: MAT 105 or higher. Elementary survey course; study of Moon, Sun, and eclipses; Solar System; near stars and Milky Way. Non-laboratory. Credit will not be awarded for students who have have credit for AST 135.

**AST 133. Astronomy Transition Lab. (1 Credit)**

(1) I,II. Prerequisite: AST 130 or departmental approval. A transition laboratory that will allow students with credit for AST 130 to gain credit for a laboratory science course that is equivalent to AST 135. 2 Lab. Gen. Ed. E4B [NS].

**AST 135. Introductory Astronomy. (3 Credits)**

I, II. Prerequisite: Completion of all academic readiness requirements. Conceptual survey course; topics include backyard astronomy, motion of the Moon and stars, the use of light in astronomy, telescopes, the Solar System, and the Sun. 4 Lec/Lab. Gen. Ed. E-4B.

**AST 335. Stars, Galaxies, & Cosmology. (3 Credits)**

(3) A. Prerequisite: MAT 105 or higher or STA 215 or higher or departmental approval; and ENG 102 or ENG 105(B) or HON 102. A survey course describing the origin and evolution of stars, including black holes, galaxies, and the Universe. We will demonstrate how observations, models and quantitative analysis with graphs lead to the current state of knowledge. Credit will not be awarded for both AST 335 and AST 330. 4 Lec/Lab. Gen. Ed. E-4.

**Geography****GEO 100. Regions and Nations of the World. (3 Credits)**

I, II. Survey of the physical, cultural, and economic geography of the world's major regions, with an emphasis on regions undergoing change and currently of international concern. Gen. Ed. 5B (SBS).

**GEO 110. Environmental Geography. (3 Credits)**

(3) A. Prerequisites: Freshman and Sophomore standing. A focus on ecological function and the physical and human dynamics contributing to environmental change across the globe and at various geographical scales. Environmental issues are examined through a geographical lens, and include clean air and water, energy systems, biodiversity, natural hazards, climate change, and food production. 2Lec/2Lab. Gen. Ed. E-4.

**GEO 115. Hollywood Weather. (3 Credits)**

A. This non-technical introduction to atmospheric processes examines how meteorological events are portrayed in popular movies. Topics may include severe weather events, climate change, and weather's impact on human systems.

**GEO 210. Introduction to Physical Geography. (3 Credits)**

I, II. Study of natural processes operating at the earth's surface with special emphasis on weather and climate and landforms as explanations for how and why physical and human phenomena vary from place to place. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

**GEO 302W. Global Environmental Problems. (3 Credits)**

A. Course will be offered every odd Spring semester. Prerequisite: GEO 100, 110, or 210.; ENG 012, ENG 105 (B), or HON 102; MAT 105 or higher; or departmental approval. Examination of environmental problems and conservation strategies in the context of global change, with case studies from exemplary world regions, including rainforest, mountain, desert, and island biomes. Credit will not be awarded to students who have credit for GEO 302 or ENV 302.

**GEO 315. Meteorology. (3,4 Credits)**

I, II. Prerequisite: MAT 112 (A and B), 114, 122, 211 or 234. This course focuses on important phenomena and physical processes that occur in Earth's atmosphere, including atmospheric dynamics, radiation, stability, moisture, wind systems and severe storms.

**GEO 321. Urban Geography. (3 Credits)**

A. Prerequisites: GEO 100, 110, or 210; ENG 102 or ENG 105 (B) or HON 102. Study of city functions, patterns, and past and current problems confronting the city, including the problems of planning, zoning, community housing, shopping centers, and urban renewal.

**GEO 325. Environment Land Use Planning. (3 Credits)**

A. Prerequisites: Prerequisites: GEO 100, 110, or 210; ENG 102 or ENG 105 (B) or HON 102; ENG 102 or ENG 105 (B) or HON 102, and MAT 105. Examines how principles of landscape ecology, resource conservation, and environmental impact analysis are incorporated into land use decisions and public policy. Emphasizes practical application at the site and regional scales. Credit will not be awarded for both GEO 325 and GEO 325S, ENV 325 or ENV 325s.

**GEO 325S. Environmental Land Use Planning. (3 Credits)**

(3) A. Course will be offered every even Spring semester. Prerequisite: GEO 100, 110, or 210; ENG 102, 105(B), or HON 102; MAT 105 or higher, or departmental approval. Examines how principles of landscape ecology, resource conservation, and environmental impact analysis are incorporated into land use decisions and public policy. emphasizes practical application at the site and regional scale. Credit will only be awarded for GEO 325S or GEO 325 or ENV 325 or ENV 325S.

**GEO 351. Geoscience Data and Techniques. (3 Credits)**

Prerequisites: GEO 100, 110, 210, GLY 104, 107, 108 or 109; MAT 105 and above, STA 215 or 217. Introduction to geoscience data, quantitative and qualitative analysis, hypothesis testing, and appropriate representations of specific data types. Includes exposure to techniques used in geoscience research and applications, including mapping, GIS, GPS, field work, remote sensing, library and Internet research, and others. Practical experience focus. 2 Lec/2 Lab.

**GEO 353. Geographic Information Systems. (3 Credits)**

(3) I, II. Prerequisite: (One of the following): AGR 216, CSC 315, GEO 100, 110, 210, GLY 102, 107, or 108. Introduction to GIS principles, methods, operations, mapping, and applications. Topics include spatial data, databases, GIS analysis, models, site suitability, environmental and social applications, and more. Hands-on emphasis using ArcGIS. 2 Lec/2 Lab.

**GEO 450. Field Studies. (3 Credits)**

(3) A. Prerequisite: GEO 100, 110, or 210. Field techniques and applied case studies of geographic topics in local and regional environs.

**GEO 453. Advanced GIS. (3 Credits)**

I, II. Prerequisite: GEO 353 or departmental approval. Advanced concepts, operations, and applications of raster and vector GIS. Spatial analysis using scanning, imagery, GPS, global data sets, and derived data for natural and social applications. Use of standards, megadata, openGIS, and other advances. 2 Lec/2 Lab.

**GEO 455. GIS Cartography. (3 Credits)**

I. Prerequisite: (One of the following): GEO 100, 110, 210, GLY 102, 107, or 108. Principles of cartographic design for GIS applications. Hands-on emphasis using ArcGIS. 2 Lec/2 Lab.

**GEO 456. Remote Sensing. (3 Credits)**

A. Prerequisite: GEO 100, 110, 210, GLY 102, 107, or 108. Principles, data sources, acquisition, interpretation, analysis, and application of geographic imagery, including maps, air photos, shuttle photography, and satellite digital data. Hands-on computer GIS techniques. 2 Lec/2 Lab.

**GEO 458. Advanced Geographic Imagery. (3 Credits)**

II. Prerequisite: GEO 353. Characteristics, interpretation, integration and applications of advanced geographic imagery, including remote sensing and GIS digital data. Attention on satellite and multispectral imagery, including image processing. Hands on emphasis. 2Lec/2Lab.

**GEO 501. Advanced Geography. (3 Credits)**

A. Prerequisite: departmental approval. In-depth study of geoscience themes using geospatial techniques. May be retaken to a maximum of nine hours if subject matter differs each time.

**Geology****GLY 102. Earth Science for Elementary Teachers. (3 Credits)**

I, II. Prerequisite: Elementary, special education elementary, and elementary DHH education majors only or departmental approval. This inquiry-based course for elementary teachers integrates content, pedagogy and technology to explore Earth as an integrated set of systems and as part of the Solar System. 1 Lec/4 Lab. Gen. Ed. IVB or VII (NS).

**GLY 103. Earth Science for Middle Grades Teachers. (3 Credits)**

II. Prerequisite: Middle grades, special education middle grades, and DHH middle grade education majors only or Earth Science Teaching minors or departmental approval. This inquiry-based course for middle grades teachers integrates content, pedagogy, and technology to explore earth science content aligned with relevant standards in the Next Generation Science Standards and the Praxis Middle School Science exam. 1 Lec/ 4 Lab.

**GLY 104. The Ocean World. (3 Credits)**

(3) Formerly GLY 304. I, II. Investigation of the geologic, physical, biogeochemical, and biologic processes that occur within the oceans of the world. The course emphasizes connections between these processes, and how those connections interact with our planet's life. 2 Lec/2 Lab. Gen Ed E-4. Credit will not be awarded to students who have credit for GLY 304.

**GLY 107. Gold and Diamonds. (3 Credits)**

A. The geology of gold and diamonds, including mineralogy, natural occurrence, exploration, and mining. The impact of gold, diamonds, and other important earth materials on the environment, history, and society will also be discussed. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

**GLY 108. Earthquakes and Volcanoes. (3 Credits)**

I, II. Investigation of the Earth as it exists and functions today, the materials that compose the Earth, the processes that act upon and within the Earth, and the interrelationship of both materials and processes with human activity. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

**GLY 109. Great Moments in Earth History. (3 Credits)**

I, II. Investigation of the origin of the Earth as a planet and its evolutionary development of physical and biological systems through time. Important turning points in the Earth's history will be emphasized. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

**GLY 210. Introduction to Geochemistry. (3 Credits)**

I. Prerequisite or Corequisite: ACT math score of 22, or SAT math score of 530, or passing algebra placement test scores (KYOTE algebra domain KAD score of 14 or higher). or MAT 112, 114, or departmental approval. An introduction to the application of fundamental concepts and skills in chemistry (nomenclature, stoichiometry, bonding, chemical change) to geology, including the distribution of the elements, mineral chemistry, and radiometric dating.

**GLY 302. Earth Science. (3 Credits)**

(3) A. Prerequisite: GLY 102, 104, 107, 108, or 109. Study of the universe and our solar system, the Earth's atmospheric and climatic elements, its physical processes and features, organic development, and natural resources.

**GLY 303. Environmental Geoscience. (3 Credits)**

A. Prerequisite: GLY 103, 104, 107, 108, or 109; or GEO 100, 110, or 210; or departmental approval. Investigation of the Earth as a complex set of interconnected systems that cycle elements, water, and earth materials over geologic and human times scales. The course emphasizes global environmental changes that occur on the planet because of human actions. Credit will not be awarded for both GLY 303 or ENV 303.

**GLY 305. Dinosaurs. (3 Credits)**

(3) A. Prerequisites: GLY 102, 104, 107, 108, 109; ENG 102, ENG 105(B) or HON 102; or departmental approval. The rise, diversification, and extinction of this prominent group of organisms. This course attempts to explore how scientists make inferences about the past, including the use and limitations of physical evidence and the nature of science.

**GLY 307. Exploring the Dynamic Earth. (3 Credits)**

Formerly GLY 107. Planet Earth: origin, composition, and evidence of activity and energetic recycling of Earth materials via plate tectonics.

**GLY 309. Mineralogy. (4 Credits)**

A. Course will be offered every even Fall semester. Prerequisites: GLY 104, 107, 108, or 109; MAT 112 (A and B) or higher; or departmental approval. Study of minerals commonly encountered in rocks and soils with minor emphasis on ore deposits: mineral geochemistry, crystal structure, classification, physical properties, optical properties, and geologic environment. Laboratory develops the ability to identify minerals in hand specimens and thin sections. 3 Lec/2 Lab.

**GLY 315. Hydrology. (3 Credits)**

A. Course will be offered every even Fall semester. Prerequisites: One from GLY 104, 107, 108, or 109; and MAT 114 or both MAT 112A and MAT 112B or ACT 23 and above or SAT 550; or departmental approval. Interrelationships between Earth's systems and the occurrence and character of water in streams, lakes, and groundwater. Focuses on fundamental understanding of hydrologic processes and reservoirs, interaction between surface waters and groundwater and relationships between human activity and these reservoirs. 2 Lec/ 2 Lab.

**GLY 349. Applied Learning in Geology. (0.5-8 Credits)**

I, II. Work in placements related to academic studies. Total hours for baccalaureate, sixteen. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major, or minor requirements.

**GLY 349A. Cooperative Study: Geology. (0.5-8 Credits)**

I, II. Work in placements related to academic studies. Total hours for baccalaureate, sixteen. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major, or minor requirements.

**GLY 349B. Cooperative Study: Geology. (0.5-8 Credits)**

I, II. Work in placements related to academic studies. Total hours for baccalaureate, sixteen. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major, or minor requirements.

**GLY 351. Field Methods. (3 Credits)**

A. Prerequisites: GLY 104, 107, 108, or 109; or departmental approval. Methods of field geology including description and measurement of rock sequences, introduction to geological mapping and writing geological reports. 1 Lec/4 Field.

**GLY 398. Independent Studies in Geology. (1-6 Credits)**

A. Prerequisite: departmental approval. Topic determined by student and instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours provided topic is different each time.

**GLY 408. Process Geomorphology. (3 Credits)**

A. Prerequisite: GEO 110 or 210, 104, 107, 108, 109; or departmental approval. An in-depth study of the geologic processes involved in landform development.

**GLY 409. Igneous & Metamorphic Petrology. (4 Credits)**

A. Course will be offered every odd Fall semester. Prerequisites: GLY 309 and MAT 112 or higher. Nature and origin of common igneous and metamorphic rocks, with emphasis on crystalline rocks. Lab develops the ability to analyze and classify rocks in hand sample and in thin section using a petrographic microscope. 3 Lec/2 Lab.

**GLY 410. Structural Geology. (4 Credits)**

A. Course will be offered every odd Fall semester. Prerequisites: GLY 104, 107, 108, or 109; and MAT 112 (A and B) or higher. Deformation of Earth's crust across a wide range of scale with emphasis on plate tectonics and its consequences. Lab develops the ability to analyze the geometry of deformed rock bodies and solve common structural problems. Course includes a MANDATORY field trip during Fall Break. 3 Lec/2 Lab.

**GLY 415. Sedimentary Geology. (4 Credits)**

A. Course will be offered every odd Fall semester. Prerequisite: GLY 104, 107, 108, 109; MAT 112 (A and B) or higher; or departmental approval. Examination of sedimentary processes and products, the characteristics and origins of sedimentary rocks and their related depositional environments, and application of these principles to solving geological problems. Laboratory develops techniques for describing and interpreting sedimentary rocks, structures, and stratigraphy. Course includes a MANDATORY field trip during Fall Break. 3 Lec/2 Lab.

**GLY 420. Stratigraphy. (4 Credits)**

A. Course will be offered every even Spring semester. Prerequisites: GLY 415 and MAT 112 or higher. Description, correlation, and interpretation of stratified sedimentary sequences; basic identification and interpretation of the fossils they contain. Emphases: rock-vs. time stratigraphy, facies relationships, sequence stratigraphy, event stratigraphy, biostratigraphy, well log correlation. 3 Lec/2 Lab.

**GLY 450W. Evolution of the Earth. (3 Credits)**

A. Course will be offered every odd Spring semester. Prerequisite: ENG 102 or 102R or 105 or HON 102 and GLY 309, 409, 410, 415, or 420, or departmental approval. Overview of geological principles from the perspective of the Earth's history, physical and biological. Emphasis on critical thinking and expressive writing. Credit will not be awarded to students who have credit for GLY 550.

**GLY 451. Field Camp. (6 Credits)**

SUMMER ONLY. Prerequisites: GLY 409 and 410. Field-training course in the northern and central Rocky Mountains (6 weeks). Analysis of rock sequences; geologic mapping of sedimentary, metamorphic, and igneous terrains; interpretation of complex rock deformation; regional geological synthesis with emphasis on tectonics; and visits to many instructive geologic localities, including national parks and monuments.

**GLY 460. Aqueous Geochemistry. (3 Credits)**

A. Prerequisite: GLY 210 or CHE 111 and 111L. Reactions between natural waters, atmospheric gasses and earth materials in surface and near surface environments. Emphasis is placed on consequences of chemical weathering, composition of surface and near surface water, geochemical cycles, and natural and anthropogenic geochemical events. 2 Lec/2 Lab.

**GLY 480. Petroleum Geology. (3 Credits)**

A. Pre/Corequisites: GLY 410 and GLY 420. Use of the petroleum systems paradigm to explore characteristics of economically-viable petroleum accumulations. Examines fundamental activities such as electric logging, mudlogging, and drilling. Exercises and projects model industry practices in recognizing and understanding petroleum accumulations. 2 Lec/ 2 Lab.

**GLY 482. Paleoclimate. (3 Credits)**

A. Prerequisite: GLY 104, 109, 415, GEO 115, 210, or 315; or departmental approval. How the interaction of ocean and atmosphere creates climate in the planet today and leaves its record in geologically accessible Earth materials, with an emphasis on the interpretation of the geological record and how we learn how the Earth's climate has changed in the past.

**GLY 498. Capstone Project in Geology. (3 Credits)**

A. Prerequisite: senior standing and departmental approval. A capstone experience for geology majors that integrates a research experience with the students' professional development and the production of a substantive deliverable product (e.g. poster, conference presentation, geologic map.) Student must have the independent study form approved by faculty supervisor and department chair prior to enrollment.

**GLY 499. Senior Thesis. (3 Credits)**

A. Prerequisites: senior standing and department approval. Supervised, independent thesis project for majors in geology. Thesis project must be approved by faculty supervisor and department committee prior to enrollment in the course. Student must have the independent study form approved by faculty supervisor and department chair prior to enrollment.

**GLY 535. Hydrogeology. (3 Credits)**

A. Course will be offered every odd Spring semester. Prerequisite: GLY 104, 107, 108, or 109; and MAT 112 or higher. Origin, occurrence, movement, utilization, and conservation of groundwater. Qualitative and quantitative presentation of geological, physical, and geochemical aspects of groundwater hydrology. 2 Lec/2 Lab.

**GLY 580. Selected Topics:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: senior standing or departmental approval. Designed to explore specific aspects of geology. May be retaken to a maximum of six hours provided topic is different each time.

## Physics

**PHY 101. Conceptual Physics. (3 Credits)**

I, II. Prerequisite: MAT 105 or higher or departmental approval. Conceptual approach to topics such as kinematics, Newtonian mechanics, electricity, magnetism, and optics. Not intended for science majors. Credit will not be awarded to students who have credit for PHY 102. 4 Lec/Lab. Gen. Ed. E-4.

**PHY 102. Inquiry Physics for MS Teachers. (3 Credits)**

I, II. Prerequisite: MAT 105 or higher and pre-teaching or teaching middle school education, special education middle grades, or DHH middle grade education majors or departmental approval. An inquiry-based, conceptual approach physical science course for middle school teaching majors. Topics include kinematics, matter and heat, optics, electricity, and magnetism. Credit will not be awarded for both PHY 101 and 102. 4 Lec/ Lab. Gen. Ed. E-4 [NS].

**PHY 104. Inquiry Physical Science for Elementary Teachers. (3 Credits)**

I, II. Cross-Listed with CHE 104. Prerequisite: Elementary, special education elementary, and DHH elementary education majors only, sophomore standing, and MAT 112 or higher. An activity-oriented conceptual course in the physical sciences. Topics include the structure and properties of matter, heat and temperature, forces, motion, magnets, energy, and sound waves. Credit will not be awarded for students who have credit for CHE 104. 2 Lec/2 Lab.

**PHY 131. College Physics I. (5 Credits)**

I, II. Prerequisite: MAT 112 or higher or departmental approval. MAT 120 or higher is recommended. Algebra and trigonometry based approach to Newtonian mechanics, including Kinematics, Newton's laws, momentum, energy, and rotation. Credit will not be awarded to students who have credit for PHY 201. 6 Lec/Lab. Gen. Ed. IVB or VII (NS).

**PHY 132. College Physics II. (5 Credits)**

I, II. Prerequisite: PHY 131 with a grade of "C" or better or departmental approval. Algebra and trigonometry based approach to electromagnetic phenomena, including electric forces and fields, simple DC circuits, magnetic forces and fields, magnetic induction, and optics. Credit will not be awarded to students who have credit for PHY 202. 6 Lec/Lab.

**PHY 200. Volunteering in Physics and Astronomy. (0 Credits)**

A. An exposure to physics and astronomy activities, including, but not limited to, exploring physical and astronomical research projects, organizing physics and astronomy community service, and assisting at other physics and astronomy departmental events. Students can choose the focus of the volunteering in each semester. Passing grade achieved for attending 80% of the designated activities in each semester.

**PHY 201. University Physics I. (5 Credits)**

I. Prerequisite: MAT 211, 234 or 234H or departmental approval. Composition and resolution of forces, laws of equilibrium, Newton's laws of motion, work and energy, momentum, simple harmonic motion, hydrodynamics, heat phenomena. Credit will not be awarded to students who have credit for PHY 131 and PHY 201. 6 Lec/Lab. Gen. Ed. IVB or VII (NS).

**PHY 202. University Physics II. (5 Credits)**

II. Prerequisite: PHY 201 with a grade of "C" or better. Prerequisite or Corequisite: MAT 244 or 244H or departmental approval. Electrostatics, electric potential, dielectrics, A.C. and D.C. circuits, magnetic fields, Faraday's Law, sound, wave motion, geometrical and physical optics. Credit will not be awarded to students who have credit for PHY 132. 6 Lec/Lab.

**PHY 211. Intermediate Physics. (4 Credits)**

A. Prerequisites: PHY 201 with a grade of "C" or better or PHY 131 with a minimum grade of "B" or better; MAT 234 or 234H; or departmental approval. Applications of calculus to physical principles. Topics include fluid mechanics, thermodynamics, and wave optics.

**PHY 221. Statics. (3 Credits)**

A. Prerequisite: PHY 201. Prerequisite/Corequisite: MAT 244 or 244H or departmental approval. Study of force systems on bodies at rest, descriptions of force systems, distributed and internal forces, frames and trusses, beams.

**PHY 302. Modern Physics. (4 Credits)**

(4) A. Prerequisites: PHY 132 or PHY 202; MAT 211 or MAT 234 or MAT 234H or departmental approval. Physics of the 20th century. Topics include special relativity, quantum effects, wave theory, Bohr theory, nuclear structure, nuclear reactions, and other topics related to 20th century modern physics. Credit will not be awarded to students who have credit for PHY 302W.

**PHY 302W. Modern Physics. (4 Credits)**

(4) A. Prerequisites: ENG 102, 105(B) or HON 102; PHY 132 or PHY 202; MAT 211, MAT 234 or MAT 234H or departmental approval. Physics of the 20th century. Topics include special relativity, quantum effects, wave theory, Bohr theory, nuclear reactions, and other topics related to 20th century modern physics. Credit will not be awarded to students who have credit for PHY 302.

**PHY 303. Introduction to Laser Physics. (3 Credits)**

A. Prerequisite: PHY 132 or PHY 202 and instructor approval. An introduction to the theory and application of different types of lasers such as dye, nitrogen, He/Ne, diode, and mercury vapor; the characteristics of laser light, and optical measuring devices. 2 Lec/2 lab.

**PHY 306. Classical Physics Laboratory. (2 Credits)**

I. Prerequisite: PHY 132 or 202. Experiments in mechanics, optics, and electricity. Simulation of physical situations using a spreadsheet. Techniques of interfacing scientific equipment to microcomputers. 4 Lab.

**PHY 307. Electronics. (4 Credits)**

A. Prerequisite: PHY 132 or 202. Theory of solid state devices, power supplies, transducers, operational amplifiers, solid state switches, flip-flops, counters, digital devices, logic families. 3 Lec/3 Lab.

**PHY 310. Theoretical Methods in Physics. (3 Credits)**

(3) A. Prerequisites: MAT 254 with a grade of "C" or better; CSC 174, or departmental approval. Analytical methods for characterizing physics models and solving physics problems in advanced topics are discussed, including vector analysis, linear algebra, complex analysis, infinite series, waves and Fourier series, differential equations and other techniques.

**PHY 315. Electrical Circuits. (4 Credits)**

A. Prerequisite: PHY 202. Prerequisite or Corequisite: MAT 244 or 244H. Fundamental laws and principles for linear circuits whose elements consist of passive and active components used in present day practice. Determination of the sinusoidal steady state responses using the algebra of complex numbers.

**PHY 349. Applied Learning in Physics. (0.5-8 Credits)**

A. Work in placements related to academic studies. A minimum of 80 hours employment is required for each semester hour of academic credit. Total hours: eight, associate; sixteen, baccalaureate. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 349A. Cooperative Study: Physics. (0.5-8 Credits)**

A. Work in placements related to academic studies. A minimum of 80 hours employment is required for each semester hour of academic credit. Total hours: eight, associate; sixteen, baccalaureate. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 349B. Cooperative Study: Physics. (0.5-8 Credits)**

Work in placements related to academic studies. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 349C. Cooperative Study: Physics. (0.5-8 Credits)**

Work in placements related to academic studies. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 349D. Cooperative Study: Physics. (0.5-8 Credits)**

Work in placements related to academic studies. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 375. Engineering Thermodynamics. (3 Credits)**

A. Prerequisite: PHY 202. Prerequisite or Corequisite: MAT 244 or 244H. Study of temperature, thermodynamic systems, ideal gases, first and second law of thermodynamics, Carnot cycle, Kelvin temperature scale, entropy, including thermodynamic analysis of engineering devices.

**PHY 402. Modern Optics. (3 Credits)**

A. Prerequisite: PHY 211 or departmental approval. Prerequisite or Corequisite: MAT 244. Wave motion, interference, diffraction, electromagnetic radiation, dispersion, polarization, and lasers.

**PHY 406W. Advanced Physics Laboratory. (3 Credits)**

Prerequisite: ENG 102, 105(B), or HON 102; PHY 302 or 302W, or departmental approval. Experiments in mechanics, optics, electricity, and nuclear physics, computer simulations of physical situations. Measurement and data analysis techniques, including error analysis. May be repeated up to a maximum of six hours provided content different each time. 5 Lec/Lab.

**PHY 410. Independent Study in Physics:\_\_\_\_. (1-6 Credits)**

(1-6) A. Prerequisite: PHY202 or departmental approval. May be retaken to a maximum of six hours provided subject matter is different each time. Student must have the independent study form approved by faculty supervisor and department chair prior to enrollment.

**PHY 411. Special Topics in Physics:\_. (1-6 Credits)**

(1-6) A. Prerequisite: PHY 202 or departmental approval. Special topics in physics of current interest to faculty and students will be presented through lecture, discussion, and reports. May be retaken to a maximum of six hours provided subject matter is different each time.

**PHY 412. Directed Research in Physics:\_. (1-6 Credits)**

A. Prerequisite: PHY 302 and departmental approval. A directed research experience for physics majors that may include laboratory experiments, development of new equipment, physics education research, or computational solutions of special problems related to physics. May be retaken to a maximum of six hours. Student must have the independent study form approved by faculty supervisor and department chair prior to enrollment.

**PHY 421. Electricity and Magnetism I. (3 Credits)**

(3) I. Prerequisites: PHY 310 with a grade of "C" or better or departmental approval. Electrostatics in vacuum and dielectrics, solutions of Laplace's and Poisson's equations, magnetic fields, induced EMF's, magnetic materials, and Maxwell's equations.

**PHY 422. Electricity and Magnetism II. (3 Credits)**

(3) II. Prerequisites: PHY 421 or departmental approval. Maxwell's equations, electromagnetic waves in insulators and conductors, energy and momentum, electromagnetic radiation, dipole radiation, special relativity, special applications.

**PHY 456. Statistical and Thermal Physics. (3 Credits)**

A. Prerequisites: PHY 302; PHY 310 with a grade of "C" or better; or departmental approval. Microscopic approach to thermal processes. Topics include probability, entropy, the canonical ensemble, blackbody radiation, and quantum statistics including Bose-Einstein and Fermi-Dirac statistics.

**PHY 460. Classical Mechanics. (4 Credits)**

(4) A. Prerequisite: PHY 310 with a grade of "C" or better or departmental approval. Prerequisite/Corequisite: MAT 353. Applications of calculus to the principles of classical mechanics. Topics include rectilinear motion in 1-D, motion in 3-D, non-inertial frames, central forces, many-bodied systems, rigid bodies, Lagrangian mechanics, and other topics related to classical mechanics.

**PHY 470. Quantum Mechanics. (3 Credits)**

A. Prerequisites: PHY 310 and PHY 460, or departmental approval. Basic principles of wave mechanics, solutions of Schrodinger wave equation for simple systems, interpretation of solutions and application to atomic and molecular problems.

**PHY 506. Physics for High School Teachers. (3 Credits)**

A. Credit given toward major or minor only in teaching programs. Topics from general and modern physics to prepare teachers to teach high school physics and give classroom demonstrations. 2 Lec/3 Lab.

## Earth Science/Teaching, Minor

The teaching minor in earth science must be coupled with a secondary teaching degree in another discipline to teach earth science at the secondary level. Students enrolled in a teaching program other than science who desire teaching certification in earth science will be required to complete ESE 561 Teaching Science in Secondary School and student teach in earth science. Please note that the earth science minor GPA must be 2.75 or greater to seek certification in earth science. The minor certification cannot be recommended until the secondary teaching program is completed and a recommendation for certification has been processed. Appropriate PRAXIS exams must be completed for each area of certification being recommended.

## PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

## Program Requirements

A student may minor in earth science (teaching) by completing a minimum of 21 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
GLY 104	The Ocean World	3
GLY 103	Earth Science for Middle Grades Teachers	3
or GLY 108	Earthquakes and Volcanoes	
GLY 109	Great Moments in Earth History	3
GEO 315	Meteorology	3
AST 135	Introductory Astronomy	3
Choose from two of the following:		6-8
GLY 303	Environmental Geoscience	
GLY 309	Mineralogy	
GLY 351	Field Methods	
GLY 408	Process Geomorphology	
GLY 410	Structural Geology	
GLY 415	Sedimentary Geology	
GLY 420	Stratigraphy	
GLY 450W	Evolution of the Earth	
Approved electives from astronomy or geography		
<b>Total Hours</b>		<b>21-23</b>

## Environmental and Applied Geology, Bachelor of Science with a Concentration in Academic (B.S.)

Geology is the study of Earth; we study the processes, behavior and materials of Earth, its water and its atmosphere both in recent times and in the geologic past. Through understanding how Earth formed,

how it changed over billions of years, and how it continues to function today, we can look forward in time to predict how natural processes and human actions will interact to impact Earth in the future. Knowledge of geological concepts and processes helps scientists, politicians, and business professionals make decisions about the use of Earth's natural resources, protection of humans against natural disasters, and wise stewardship of our environment.

For students wishing to enter the professional world immediately upon graduation, the Professional Concentration prepares our students to become competent professionals with the requisite knowledge and skills necessary to successfully pass the initial certification exam to eventually obtain their Professional Geologist designation. Students will have the opportunity to gain knowledge and skills in each of the eight areas of professional geology and geotechniques, as well as develop critical research skills through a senior thesis or field camp experience.

Students in the Academic Concentration will gain the foundational knowledge and skills in geology, mathematics and natural sciences necessary to be successful in graduate school, as well as to explore potential areas of geologic specialization through independent research or a field camp experience and elective courses.

## Program Requirements

CIP Code: 40.0601

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT – Geology majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)

Choose from one of the following:

GLY 498	Capstone Project in Geology
GLY 499	Senior Thesis
GLY 451	Field Camp

### Major Requirements

#### Core Courses

GEO 353	Geographic Information Systems	3
GLY 309	Mineralogy	4
GLY 409	Igneous & Metamorphic Petrology	4
GLY 410	Structural Geology	4
GLY 415	Sedimentary Geology	4
GLY 420	Stratigraphy	4
GLY 450W	Evolution of the Earth	3
GLY 535	Hydrogeology	3

Choose from one of the following:

GLY 498 & GLY 499	Capstone Project in Geology and Senior Thesis	6
GLY 451	Field Camp	6

Choose from six hours of the following:

GLY 104	The Ocean World	3
GLY 107	Gold and Diamonds	3
GLY 108	Earthquakes and Volcanoes	3
GLY 109	Great Moments in Earth History	3
GEO 210	Introduction to Physical Geography	6

### Concentrations

Students must select one of the following Concentrations:

Academic	18-23
Professional	

#### Supporting Course Requirements

Choose from 3-13 hours of supporting courses

13 hours of Academic	
3-5 hours of Professional	

#### Free Electives

Choose from 20-27 hours of free electives 24-27

**Total Hours 120-128**

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three hours of the following:		3
GEO 325	Environment Land Use Planning	
GEO 325S	Environmental Land Use Planning	
GLY 303	Environmental Geoscience	
GLY 408	Process Geomorphology	
Choose from six hours of the following:		6
GEO 302W	Global Environmental Problems	
GEO 315	Meteorology	

GEO 325	Environment Land Use Planning	
GEO 343		
GEO 351	Geoscience Data and Techniques	
GEO 453	Advanced GIS	
GEO 455	GIS Cartography	
GEO 456	Remote Sensing	
GEO 458	Advanced Geographic Imagery	
GEO 501	Advanced Geography:___	
GLY 210	Introduction to Geochemistry	
GLY 303	Environmental Geoscience	
GLY 315	Hydrology	
GLY 351	Field Methods	
GLY 408	Process Geomorphology	
GLY 460	Aqueous Geochemistry	
GLY 480	Petroleum Geology	
GLY 482	Paleoclimate	
GLY 580	Selected Topics:___	
STA 215	Introduction to Statistical Reasoning	
or STA 270	Applied Statistics	
<b>Supporting Course Requirements</b>		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
MAT 234	Calculus I (Element 2) <sup>G,1</sup>	
Choose from 0-5 hours of the following:		0-5
PHY 131	College Physics I	
PHY 201	University Physics I (Element 4) <sup>G</sup>	
PHY 132	College Physics II	5
or PHY 202	University Physics II	
<b>Total Hours</b>		<b>18-23</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

1

Preparatory course in mathematics may be required before admission to MAT 122 Precalculus Mathematics, or MAT 234 Calculus I.

## Environmental and Applied Geology, Bachelor of Science with a Concentration in Professional (B.S.)

Geology is the study of Earth; we study the processes, behavior and materials of Earth, its water and its atmosphere both in recent times and in the geologic past. Through understanding how Earth formed, how it changed over billions of years, and how it continues to function today, we can look forward in time to predict how natural processes and human actions will interact to impact Earth in the future. Knowledge of geological concepts and processes helps scientists, politicians, and business professionals make decisions about the use of Earth's natural resources, protection of humans against natural disasters, and wise stewardship of our environment.

For students wishing to enter the professional world immediately upon graduation, the Professional Concentration prepares our students to become competent professionals with the requisite knowledge and skills necessary to successfully pass the initial certification exam to eventually obtain their Professional Geologist designation. Students will have the opportunity to gain knowledge and skills in each of the eight areas of professional geology and geotechniques, as well as develop critical research skills through a senior thesis or field camp experience.

Students in the Academic Concentration will gain the foundational knowledge and skills in geology, mathematics and natural sciences necessary to be successful in graduate school, as well as to explore potential areas of geologic specialization through independent research or a field camp experience and elective courses.

## Program Requirements

CIP Code: 40.0601

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Geology majors will fulfill ACCT with the following. (Credit hours are incorporated into program requirements below.)		
Choose from one of the following:		
GLY 498	Capstone Project in Geology	

GLY 499	Senior Thesis	
GLY 451	Field Camp	

**Major Requirements**

*Core Courses*

GEO 353	Geographic Information Systems	3
GLY 309	Mineralogy	4
GLY 409	Igneous & Metamorphic Petrology	4
GLY 410	Structural Geology	4
GLY 415	Sedimentary Geology	4
GLY 420	Stratigraphy	4
GLY 450W	Evolution of the Earth	3
GLY 535	Hydrogeology	3
Choose from one of the following:		6

GLY 498 & GLY 499	Capstone Project in Geology and Senior Thesis	
GLY 451	Field Camp	

Choose from six hours of the following: 6

GLY 104	The Ocean World	
GLY 107	Gold and Diamonds	
GLY 108	Earthquakes and Volcanoes	
GLY 109	Great Moments in Earth History	
GEO 210	Introduction to Physical Geography	

**Concentrations**

Students must select one of the following Concentrations: 9-12

Academic	
Professional	15-20

*Supporting Course Requirements*

Choose from 3-13 hours of supporting courses	
13 hours of Academic	
3-5 hours of Professional	

*Free Electives*

Choose from 20-27 hours of free electives 20-27

**Total Hours 122-137**

**Concentration**

Code	Title	Hours
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**Concentration Courses**

GEO 456	Remote Sensing	3
GLY 315	Hydrology	3

Choose from six hours of the following: 6

GEO 302W	Global Environmental Problems	
GEO 315	Meteorology	
GEO 325	Environment Land Use Planning	
GEO 343		
GEO 351	Geoscience Data and Techniques	
GEO 453	Advanced GIS	
GEO 455	GIS Cartography	
GEO 458	Advanced Geographic Imagery	
GEO 501	Advanced Geography:___	
GLY 210	Introduction to Geochemistry	
GLY 303	Environmental Geoscience	
GLY 351	Field Methods	

GLY 408	Process Geomorphology	
GLY 460	Aqueous Geochemistry	
GLY 480	Petroleum Geology	
GLY 482	Paleoclimate	
GLY 580	Selected Topics:___	

*Supporting Course Requirements*

CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
MAT 122	Precalculus Mathematics (or higher) (Element 2) <sup>G,1</sup>	
PHY 101	Conceptual Physics	3
Choose from 0-5 hours of the following:		0-5
PHY 131	College Physics I	
PHY 201	University Physics I (Element 4) <sup>G</sup>	

**Total Hours 15-20**

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

**1**

Preparatory course in mathematics may be required before admission to MAT 122 Precalculus Mathematics, or MAT 234 Calculus I.

**Environmental Geosciences, Minor**

The minor in Environmental Geosciences emphasizes:

- Scientific understanding of the natural laws that govern the functioning of the Earth as a system;
- Human connections to the physical and natural world;
- Environmental ethics, values and behavior and how they are expressed in individuals, communities, societies, and institutional structures
- Technological and economic applications of environmental geosciences; and
- Practical applications of environmental geosciences to the real world, and to the student's major and career plans

**Program Requirements**

The minor in Environmental Geosciences requires a minimum of 18 credit hours.

Code	Title	Hours
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**Required Courses**

*Core Courses*

GEO 353	Geographic Information Systems	3
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Choose from a minimum of three hours from five of the six following 5-16 content areas:

Human Connections to the Physical and Natural World:

Choose from one of the following:

GEO 110	Environmental Geography (Element 4) <sup>G</sup>	
GLY 303	Environmental Geoscience	
BIO 500	Environmental Issues	
ANT 370	Primate Conservation	
EHS 425	One Health: Planning to Practical Application	
SOC 383	Environment and Society	

Environmental Behaviors, Values, and Ethics:		
Choose from one of the following:		
GEO 302W	Global Environmental Problems	
ENG 208W	Literature and the Environment (Element 3B) <sup>G</sup>	
REC 290	Adventure Programming	
AGR 345	Sustainable Agroecosystems	
PHI 385	Environmental Ethics	
Natural Systems Function:		
Choose a minimum of three hours of the following:		
GEO 315	Meteorology	
GLY 315	Hydrology	
GLY 415	Sedimentary Geology	
WLD 317	Conservation of Wildlife Resources	
BIO 590	Ecology for Teachers	
BIO 112	Ecology and Evolution (Element 4) <sup>G</sup>	
Technological and Economic Applications:		
Choose from one of the following:		
AGR 319	Renewable and Sustainable Energy Systems	
ECO 340	Environmental Economics	
or APP 340	Environmental Economics	
AGR 340	Conservation of Agricultural Resources	
GEO 325	Environment Land Use Planning	
or GEO 325S	Environmental Land Use Planning	
GEO 430		
or APP 430	Sustainability in Appalachia	
GLY 535	Hydrogeology	
Applied Studies:		
Choose from one of the following:		
GEO 349		
GEO 349	(A-N)	
GEO 435		
GLY 408	Process Geomorphology	
EMS 561	Environmental Education Essentials	
EMS 564S	Service Learning as Pedagogy	
Geospatial Techniques:		
Choose from one of the following:		
GEO 453	Advanced GIS	
GEO 455	GIS Cartography	
GEO 456	Remote Sensing	
<b>Total Hours</b>		<b>18-19</b>

<sup>G</sup>  
Course satisfies a General Education element.

## Geographic Information Systems, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
GEO 353	Geographic Information Systems	3

GEO 455	GIS Cartography	3
GEO 456	Remote Sensing	3
GEO 453	Advanced GIS	3
<i>Electives</i>		
Choose from six hours of the following:		
GEO 351	Geoscience Data and Techniques	
GEO 458	Advanced Geographic Imagery	
GEO 501	Advanced Geography:___	
GLY 351	Field Methods	
AEM 195	Computer Aided Drafting	
CON 221	Plane Surveying	
HLS 461	Disaster Resilience	
HLS 491	Disaster Planning and Exercises	
CSC 190	Object- Oriented Programming I	
Choose from one of the following:		
GEO 398		
GLY 498	Capstone Project in Geology	
GLY 499	Senior Thesis (if topic is appropriate)	
Choose from one of the following:		
STA 215	Introduction to Statistical Reasoning	
STA 270	Applied Statistics	
STA 500		
Choose from one of the following:		
CSC 160	Introduction to Web Programming	
CSC 174	Introduction to Programming for Science & Engineering	
CSC 177	Introduction to Visual Basic	
<b>Total Hours</b>		<b>18</b>

## Geography, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
GEO 100	Regions and Nations of the World	3
GEO 210	Introduction to Physical Geography	3
GEO 353	Geographic Information Systems	3
Choose from nine hours of geography electives, six of which must be at the 300-level or above		
<b>Total Hours</b>		<b>18</b>

## Geology, Minor

### Program Requirements

A student may minor in Geology by completing a minimum of 18 semester hours as follows:

Code	Title	Hours
<b>Required Courses</b>		
Choose from a maximum of six hours of the following:		
GLY 102	Earth Science for Elementary Teachers	
GLY 104	The Ocean World	
GLY 107	Gold and Diamonds	

GLY 108	Earthquakes and Volcanoes	
GLY 109	Great Moments in Earth History	
Choose from a minimum of additional 12 hours of upper-division geology courses		12
<b>Total Hours</b>		<b>18</b>

## Physics, Bachelor of Science with a Concentration in Engineering Physics (B.S.)

### Program Objectives

Upon completion of this program the graduate will:

1. be able to apply mathematics to analyze problems in Physics;
2. be able to use fundamental physical results, such as conservation laws, to study physical systems;
3. be able to analyze important processes occurring in physical systems.

Additionally, graduates of this program will:

1. be prepared for employment in Physics or a related field in the public or private sector;
2. be prepared for admission to a graduate program in Physics or a related field;
3. be prepared to take and pass the Praxis exam in Physics; and physics teaching majors will be prepared to teach Physics in a secondary school.

### Program Requirements

CIP Code: 40.0801

#### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
SCO 100P	Student Success Seminar in Physics (waived for transfers with 30+ hrs.)	1
Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)		
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
ACCT – Physics majors will fulfill ACCT with one of the following. (Credit hours may be incorporated into Major or Supporting requirements.)		
Choose from one of the following:		
CED 499	Clinical VI: The Professional Semester	
PHY 349	Applied Learning in Physics	
PHY 349	Applied Learning in Physics (A-N)	
PHY 406		
PHY 406W	Advanced Physics Laboratory	
PHY 410	Independent Study in Physics:___	
PHY 470	Quantum Mechanics	
HON 420	Thesis Project and Seminar	
A program-approved Leadership experience		
A program-approved Study Abroad		
<b>Major Requirements</b>		
<i>Core Courses</i>		
PHY 201	University Physics I <sup>1</sup>	5
or PHY 131	College Physics I	
PHY 202	University Physics II <sup>2</sup>	5
or PHY 132	College Physics II	
PHY 211	Intermediate Physics	4
PHY 302	Modern Physics	4
or PHY 302W	Modern Physics	
PHY 406		3
or PHY 406W	Advanced Physics Laboratory	
<b>Concentrations</b>		
Students must select one of the following Concentrations:		
Physics (General)		
Engineering Physics		41
Physics Teaching		
<i>Supporting Course Requirements</i>		
Choose from 10-23 hours of supporting courses		
20 hours of General Physics		
23 hours of Engineering Physics		
10 hours of Physics Teaching		
<i>Free Electives</i>		
Choose from 21 hours of free electives <sup>3</sup>		21
<b>Total Hours</b>		<b>120</b>

1

At the discretion of the chair, PHY 131 College Physics I may be substituted for PHY 201 University Physics I.

2

For teaching majors PHY 132 College Physics II may be substituted for PHY 202 University Physics II.

3

Students who are interested in Medical Physics graduate programs are encouraged to take EHS 510 Radiological Health and Safety as a free elective.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
PHY 221	Statics	3
PHY 310	Theoretical Methods in Physics	3
PHY 315	Electrical Circuits	4
PHY 375	Engineering Thermodynamics	3
PHY 460	Classical Mechanics	4
Choose from three hours of the following:		3
CSC 185	Discrete Structures I	
EET 253	Microprocessor Control Systems	
EET 257	Electronic Devices and Circuits	
EET 351	Programmable Logic Controllers	
PHY 303	Introduction to Laser Physics	
PHY 402	Modern Optics	
PHY 410	Independent Study in Physics:___	
PHY 411	Special Topics in Physics:	
PHY 412	Directed Research in Physics:	
STA 270	Applied Statistics	
<b>Supporting Course Requirements</b>		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CSC 174	Introduction to Programming for Science & Engineering	3
EET 252	Digital Electronics	3
MAT 234	Calculus I (Element 2) <sup>G,1</sup>	
MAT 244	Calculus II	4
MAT 254	Calculus III	4
MAT 353	Differential Equations	3
<b>Total Hours</b>		<b>41</b>

## G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. Note that a max of 3 credit hours from one course may be applied each to any Gen. Ed. element.

1

A preparatory course (MAT 122 Precalculus Mathematics) in mathematics may be required before admission to MAT 234 Calculus I.

# Physics, Bachelor of Science with a Concentration in Physics (General) (B.S.)

## Program Objectives

Upon completion of this program the graduate will:

1. be able to apply mathematics to analyze problems in Physics;
2. be able to use fundamental physical results, such as conservation laws, to study physical systems;
3. be able to analyze important processes occurring in physical systems.

Additionally, graduates of this program will:

1. be prepared for employment in Physics or a related field in the public or private sector;
2. be prepared for admission to a graduate program in Physics or a related field;
3. be prepared to take and pass the Praxis exam in Physics; and physics teaching majors will be prepared to teach Physics in a secondary school.

## Program Requirements

CIP Code: 40.0801

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	

SCO 100P Student Success Seminar in Physics (waived for transfers with 30+ hrs.) 1

Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

ACCT – Physics majors will fulfill ACCT with one of the following. (Credit hours may be incorporated into Major or Supporting requirements.)

Choose from one of the following:

CED 499 Clinical VI: The Professional Semester

PHY 349 Applied Learning in Physics

PHY 349 Applied Learning in Physics (A-N)

PHY 406

PHY 406W Advanced Physics Laboratory

PHY 410 Independent Study in Physics:\_\_\_

PHY 470 Quantum Mechanics

HON 420 Thesis Project and Seminar

A program-approved Leadership experience

A program-approved Study Abroad

#### Major Requirements

##### Core Courses

PHY 201 University Physics I <sup>1</sup> 5  
or PHY 131 College Physics I

PHY 202 University Physics II <sup>2</sup> 5  
or PHY 132 College Physics II

PHY 211 Intermediate Physics 4

PHY 302 Modern Physics 4  
or PHY 302W Modern Physics

PHY 406 3  
or PHY 406W Advanced Physics Laboratory

#### Concentrations

Students must select one of the following Concentrations:

Physics (General) 40

Engineering Physics

Physics Teaching

#### Supporting Course Requirements

Choose from 10-23 hours of supporting courses

20 hours of General Physics

23 hours of Engineering Physics

10 hours of Physics Teaching

#### Free Electives

Choose from 22 hours of free electives <sup>3</sup> 22

**Total Hours** 120

1

At the discretion of the chair, PHY 131 College Physics I may be substituted for PHY 201 University Physics I.

2

For teaching majors PHY 132 College Physics II may be substituted for PHY 202 University Physics II.

3

Students who are interested in Medical Physics graduate programs are encouraged to take EHS 510 Radiological Health and Safety as a free elective.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
PHY 310	Theoretical Methods in Physics	3
PHY 421	Electricity and Magnetism I	3
PHY 422	Electricity and Magnetism II	3
PHY 456	Statistical and Thermal Physics	3
PHY 460	Classical Mechanics	4
PHY 470	Quantum Mechanics	3
Choose from three hours of any PHY course numbered 300 and above <sup>1</sup>		3
<i>Supporting Course Requirements</i>		
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CSC 174	Introduction to Programming for Science & Engineering	3
MAT 234	Calculus I (Element 2) <sup>G,2</sup>	
MAT 244	Calculus II	4
MAT 254	Calculus III	4
MAT 353	Differential Equations	3
<b>Total Hours</b>		<b>40</b>

1

Except PHY 506 Physics for High School Teachers

2

A preparatory course (MAT 122 Precalculus Mathematics) in mathematics may be required before admission to MAT 234 Calculus I.

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. Note that a max of 3 credit hours from one course may be applied each to any Gen. Ed. element.

## Physics, Bachelor of Science with a Concentration in Physics Teaching (B.S.)

### Program Objectives

Upon completion of this program the graduate will:

1. be able to apply mathematics to analyze problems in Physics;
2. be able to use fundamental physical results, such as conservation laws, to study physical systems;
3. be able to analyze important processes occurring in physical systems.

Additionally, graduates of this program will:

1. be prepared for employment in Physics or a related field in the public or private sector;
2. be prepared for admission to a graduate program in Physics or a related field;
3. be prepared to take and pass the Praxis exam in Physics; and physics teaching majors will be prepared to teach Physics in a secondary school.

## Program Requirements

CIP Code: 40.0801

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication (p. 62)	3
B:	Written Communication (p. 62)	3
C:	Oral Communication (p. 62)	3
<b>Element 2</b>		
	Quantitative Reasoning (p. 63)	3
<b>Element 3</b>		
A:	Arts (p. 63)	3
B:	Humanities (p. 63)	3
<b>Element 4</b>		
	Natural Sciences (p. 64)	6
<b>Element 5</b>		
A:	Historical Science (p. 64)	3
B:	Social Behavioral Science (p. 64)	3
<b>Element 6</b>		
	Diversity of Perspectives Experiences (p. 65)	6
<b>Total Hours</b>		<b>36</b>

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

### Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
	General Education	36
	<i>Student Success Seminar</i>	
SCO 100P	Student Success Seminar in Physics (waived for transfers with 30+ hrs.)	1
	Writing Intensive Course (Hrs. incorporated into Major/Supporting/Gen Ed/Free Electives category)	
	Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)	
	ACCT – Physics majors will fulfill ACCT with one of the following. (Credit hours may be incorporated into Major or Supporting requirements.)	
	Choose from one of the following:	
CED 499	Clinical VI: The Professional Semester	
PHY 349	Applied Learning in Physics	
PHY 349	Applied Learning in Physics (A-N)	
PHY 406		
PHY 406W	Advanced Physics Laboratory	
PHY 410	Independent Study in Physics:___	

PHY 470	Quantum Mechanics	
HON 420	Thesis Project and Seminar	
	A program-approved Leadership experience	
	A program-approved Study Abroad	
<b>Major Requirements</b>		
<i>Core Courses</i>		
PHY 201	University Physics I <sup>1</sup>	5
	or PHY 131 College Physics I	
PHY 202	University Physics II <sup>2</sup>	5
	or PHY 132 College Physics II	
PHY 211	Intermediate Physics	4
PHY 302	Modern Physics	4
	or PHY 302W Modern Physics	
PHY 406		3
	or PHY 406W Advanced Physics Laboratory	

<b>Concentrations</b>		
Students must select one of the following Concentrations:		
	Physics (General)	
	Engineering Physics	
	Physics Teaching	54
<i>Supporting Course Requirements</i>		
Choose from 10-23 hours of supporting courses		
	20 hours of General Physics	
	23 hours of Engineering Physics	
	10 hours of Physics Teaching	
<i>Free Electives</i>		
	Choose from 8-20 hours of free electives <sup>3</sup>	8-20
<b>Total Hours</b>		<b>120-132</b>

1

At the discretion of the chair, PHY 131 College Physics I may be substituted for PHY 201 University Physics I.

2

For teaching majors PHY 132 College Physics II may be substituted for PHY 202 University Physics II.

3

Students who are interested in Medical Physics graduate programs are encouraged to take EHS 510 Radiological Health and Safety as a free elective.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AST 135	Introductory Astronomy	3
AST 335	Stars, Galaxies, & Cosmology	3
	Choose from three hours of PHY courses numbered 300 and above	3
<i>Supporting Course Requirements</i>		
BIO 100	Introductory Biology (Element 4) <sup>G</sup>	
	or BIO 102 Inquiry Biology for Teachers	
CHE 111	General Chemistry	
	& 111L and General Chemistry Lab I (Element 4) <sup>G</sup>	
CHE 112	General Chemistry II	4
	& 112L and General Chemistry Lab	
MAT 234	Calculus I (Element 2) <sup>G,1</sup>	

MAT 244	Calculus II	4
<i>Professional Education Requirements</i>		
EDC 300	Differentiation in Inclusive Classrooms	3
EDF 203	Educational Foundations	3
EDF 204	Emerging Instructional Technologies	2
EDF 219	Human Development and Learning	3
EDF 413	Assessment in Education	3
EMS 300W	Curriculum and Instructional Design	3
EMS 474	Disciplinary Literacy	3
EMS 490	Classroom & Behavior Management	3
ESE 561	Teaching Science in Secondary School	3
SED 104	Special Education Introduction (Element 6) <sup>G</sup>	
<i>Clinical Experiences:</i>		
CED 100	Clinical I: Introduction to the Education Profession	0
CED 200	Clinical II: Understanding the Learner	0
CED 300	Clinical III: Curriculum and Instructional Design	0.5
CED 400	Clinical IV: Diagnosis and Prescription	0.5
CED 450	Clinical V: Practicing Teaching	1
CED 499	Clinical VI: The Professional Semester	9
<i>Exit Requirements</i>		
PRAXIS Examination		
Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.		
<b>Total Hours</b>		<b>54</b>

**G**  
 Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. Note that a max of 3 credit hours from one course may be applied each to any Gen. Ed. element.

<sup>1</sup>  
 A preparatory course (MAT 122 Precalculus Mathematics) in mathematics may be required before admission to MAT 234 Calculus I.

## Physics, Minor

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
PHY 201	University Physics I <sup>1</sup>	5
or PHY 131	College Physics I	
PHY 202	University Physics II <sup>2</sup>	5
or PHY 132	College Physics II	
PHY 211	Intermediate Physics	4
Choose from a minimum of additional four hours of PHY 300-level or above		
<b>Total Hours</b>		<b>18</b>

<sup>1</sup>  
 PHY 131 College Physics I may be substituted for PHY 201 University Physics I

<sup>2</sup>  
 PHY 132 College Physics II may be substituted for PHY 202 University Physics II

## Physics/Teaching, Minor

The teaching minor in physics must be coupled with a teaching major in biology, chemistry, or mathematics to qualify students to teach physics at the secondary level. Students enrolled in a teaching program other than science who desire teaching certification in physics will be required to take ESE 561 Teaching Science in Secondary School. Please note the physics minor GPA must be 2.75 or greater, and student teaching in physics is required. The minor certification cannot be recommended until the secondary teaching program is completed and a recommendation for certification has been processed. Appropriate PRAXIS exams must be completed for each area of certification being recommended.

### PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education requirements. Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

### Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
PHY 201	University Physics I <sup>1</sup>	5
or PHY 131	College Physics I	
PHY 202	University Physics II <sup>2</sup>	5
or PHY 132	College Physics II	
PHY 211	Intermediate Physics	4
PHY 302	Modern Physics	4
or PHY 302W	Modern Physics	
<b>Total Hours</b>		<b>18</b>

<sup>1</sup>  
 PHY 131 College Physics I may be substituted for PHY 201 University Physics I

<sup>2</sup>  
 PHY 132 College Physics II may be substituted for PHY 202 University Physics II

## Division of Natural Areas

Dr. Stephen Richter, Director  
 Dr. Kelly Watson, Associate Director  
 Science Building 3106  
 (859) 622-1476

Eastern Kentucky University owns three natural areas available for use by faculty, staff, and students across campus and for use by the public: Lilley Cornett Woods Appalachian Ecological Research Station (Letcher County), Maywoods Environmental and Educational Laboratory (Garrard and Rockcastle counties), and Taylor Fork Ecological Area (Madison County). As a unit, these Natural Areas function as a continuum of natural habitats found in the Commonwealth. They also serve as base stations for engaging regional communities. Our Natural Areas are used extensively by EKU, other universities, and elementary and

secondary schools as outdoor classrooms. The Division is responsible for stewardship and management of the areas collectively for

1. place-based education, research, recreation, and regional outreach by ECU personnel and
2. providing infrastructure and expertise to the public for nature-based learning, research, recreation through K-12 programming, public events, and open hours activities such as hiking, fishing, and wildlife photography.

Lilley Cornett Woods, the oldest and most studied tract of old-growth forest in eastern Kentucky, is a Registered Natural Landmark (U.S. Department of Interior) and is operated as a nature preserve. Onsite facilities, including visitor center, research and learning laboratory, bunkhouse, manager's home, outdoor teaching pavilion, and maintenance building, offer an excellent off-campus venue for meetings, classes, and workshops. The property is 659 acres, and public use is limited to facilities and guided hikes in this unique forest.

Maywoods Environmental and Educational Laboratory is 1,700 forested-acres, with a 13-acre lake and is a wildlife refuge that provides protective habitat for native species. Onsite facilities, including a lodge with classroom and sleeping space, manager's home, outdoor classroom shelter, amphitheater, and maintenance building, also offer a venue for meetings, classes, and workshops. The site is open to the public for fishing, and hiking on any of the six self-guiding trails.

Taylor Fork Ecological Area is a 60-acre restoration site at the south end of ECU's main campus in Richmond. The Area's habitat is primarily old pastureland with fence row strips of trees and small patches of woods and canebrakes. Developed as a site for experiential learning, research, and restoration, Taylor Fork was conceived by students in ECU's Wildlife Management Program and includes the adjacent American Chestnut Orchard. The site currently has no facilities and is open to the public for hiking on the designated trails.

In addition to managing ECU's Natural Areas, the Division houses the Center for Environmental Education. The Center is involved in a variety of community and educational outreach programs through the University, public school districts, and the Kentucky University Partnership for Environmental Education, which includes all eight state universities and the Kentucky Community and Technical College System. The Division administers a certificate in environmental education that is available to students of all majors.

For further information about the use and availability of ECU's Natural Areas for research, education, leisure or educational programming, please call (859) 622-1476 or visit the website, [www.naturalareas.eku.edu](http://www.naturalareas.eku.edu) (<http://www.naturalareas.eku.edu>).

## Certificate

- Environmental Education, Certificate (p. 563)
- Environmental Science, Certificate (p. 563)

## Courses

### **GEO 100. Regions and Nations of the World. (3 Credits)**

I, II. Survey of the physical, cultural, and economic geography of the world's major regions, with an emphasis on regions undergoing change and currently of international concern. Gen. Ed. 5B (SBS).

### **GEO 110. Environmental Geography. (3 Credits)**

(3) A. Prerequisites: Freshman and Sophomore standing. A focus on ecological function and the physical and human dynamics contributing to environmental change across the globe and at various geographical scales. Environmental issues are examined through a geographical lens, and include clean air and water, energy systems, biodiversity, natural hazards, climate change, and food production. 2Lec/2Lab. Gen. Ed. E-4.

### **GEO 115. Hollywood Weather. (3 Credits)**

A. This non-technical introduction to atmospheric processes examines how meteorological events are portrayed in popular movies. Topics may include severe weather events, climate change, and weather's impact on human systems.

### **GEO 210. Introduction to Physical Geography. (3 Credits)**

I, II. Study of natural processes operating at the earth's surface with special emphasis on weather and climate and landforms as explanations for how and why physical and human phenomena vary from place to place. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

### **GEO 302W. Global Environmental Problems. (3 Credits)**

A. Course will be offered every odd Spring semester. Prerequisite: GEO 100, 110, or 210.; ENG 012, ENG 105 (B), or HON 102; MAT 105 or higher; or departmental approval. Examination of environmental problems and conservation strategies in the context of global change, with case studies from exemplary world religions, including rainforest, mountain, desert, and island biomes. Credit will not be awarded to students who have credit for GEO 302 or ENV 302.

### **GEO 315. Meteorology. (3,4 Credits)**

I, II. Prerequisite: MAT 112 (A and B), 114, 122, 211 or 234. This course focuses on important phenomena and physical processes that occur in Earth's atmosphere, including atmospheric dynamics, radiation, stability, moisture, wind systems and severe storms.

### **GEO 321. Urban Geography. (3 Credits)**

A. Prerequisites: GEO 100, 110, or 210; ENG 102 or ENG 105 (B) or HON 102. Study of city functions, patterns, and past and current problems confronting the city, including the problems of planning, zoning, community housing, shopping centers, and urban renewal.

### **GEO 325. Environment Land Use Planning. (3 Credits)**

A. Prerequisites: Prerequisites: GEO 100, 110, or 210; ENG 102 or ENG 105 (B) or HON 102; ENG 102 or ENG 105 (B) or HON 102, and MAT 105. Examines how principles of landscape ecology, resource conservation, and environmental impact analysis are incorporated into land use decisions and public policy. Emphasizes practical application at the site and regional scales. Credit will not be awarded for both GEO 325 and GEO 325S, ENV 325 or ENV 325s.

### **GEO 325S. Environmental Land Use Planning. (3 Credits)**

(3) A. Course will be offered every even Spring semester. Prerequisite: GEO 100, 110, or 210; ENG 102, 105(B), or HON 102; MAT 105 or higher, or departmental approval. Examines how principles of landscape ecology, resource conservation, and environmental impact analysis are incorporated into land use decisions and public policy. Emphasizes practical application at the site and regional scale. Credit will only be awarded for GEO 325S or GEO 325 or ENV 325 or ENV 325S.

**GEO 351. Geoscience Data and Techniques. (3 Credits)**

Prerequisites: GEO 100, 110, 210, GLY 104, 107, 108 or 109; MAT 105 and above, STA 215 or 217. Introduction to geoscience data, quantitative and qualitative analysis, hypothesis testing, and appropriate representations of specific data types. Includes exposure to techniques used in geoscience research and applications, including mapping, GIS, GPS, field work, remote sensing, library and Internet research, and others. Practical experience focus. 2 Lec/2 Lab.

**GEO 353. Geographic Information Systems. (3 Credits)**

(3) I, II. Prerequisite: (One of the following): AGR 216, CSC 315, GEO 100, 110, 210, GLY 102, 107, or 108. Introduction to GIS principles, methods, operations, mapping, and applications. Topics include spatial data, databases, GIS analysis, models, site suitability, environmental and social applications, and more. Hands-on emphasis using ArcGIS. 2 Lec/2 Lab.

**GEO 450. Field Studies. (3 Credits)**

(3) A. Prerequisite: GEO 100, 110, or 210. Field techniques and applied case studies of geographic topics in local and regional environs.

**GEO 453. Advanced GIS. (3 Credits)**

I, II. Prerequisite: GEO 353 or departmental approval. Advanced concepts, operations, and applications of raster and vector GIS. Spatial analysis using scanning, imagery, GPS, global data sets, and derived data for natural and social applications. Use of standards, megadata, openGIS, and other advances. 2 Lec/2 Lab.

**GEO 455. GIS Cartography. (3 Credits)**

I. Prerequisite: (One of the following): GEO 100, 110, 210, GLY 102, 107, or 108. Principles of cartographic design for GIS applications. Hands-on emphasis using ArcGIS. 2 Lec/2 Lab.

**GEO 456. Remote Sensing. (3 Credits)**

A. Prerequisite: GEO 100, 110, 210, GLY 102, 107, or 108. Principles, data sources, acquisition, interpretation, analysis, and application of geographic imagery, including maps, air photos, shuttle photography, and satellite digital data. Hands-on computer GIS techniques. 2 Lec/2 Lab.

**GEO 458. Advanced Geographic Imagery. (3 Credits)**

II. Prerequisite: GEO 353. Characteristics, interpretation, integration and applications of advanced geographic imagery, including remote sensing and GIS digital data. Attention on satellite and multispectral imagery, including image processing. Hands on emphasis. 2Lec/2Lab.

**GEO 501. Advanced Geography. (3 Credits)**

A. Prerequisite: departmental approval. In-depth study of geoscience themes using geospatial techniques. May be retaken to a maximum of nine hours if subject matter differs each time.

## Environmental Education, Certificate

This Environmental Education Certificate does not lead to teacher certification or to a professional teaching license, although some of these courses can be used towards licensure.

### Program Requirements

A student may complete a short-term (Departmental) certificate by taking the following requirements:

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
BIO 590	Ecology for Teachers	3
EMS 561	Environmental Education Essentials	3
<i>Electives</i>		

Choose from six hours of the following:		6
BIO 500	Environmental Issues or GEO 302W Global Environmental Problems	
CHE 501	Chemtopics: _____	
ELE 424	Advanced Science Pedagogy and Assessment	
EMG 492	Science in the Middle Grades	
EMS 563	Teaching Environmental Education	
ESE 561	Teaching Science in Secondary School	
REC 590	Special Topics:___	
UNP 500	Study Abroad:___	
Or choose from one three hour co-op or internship program with Natural Areas of the following:		
BIO 349	Applied Learning in Biology	
GEO 349		
HIS 349	Applied Learning in History	
REC 463	Internship	
SCO 349	Applied Learning in Science	

**Total Hours 12**

## Environmental Science, Certificate

For further information about the certificate or the use and availability of ECU's Natural Areas for research, education, programming, recreation, or meetings, please call (859) 622-1476 or visit [www.naturalareas.eku.edu](http://www.naturalareas.eku.edu) (<http://www.naturalareas.eku.edu>).

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
<i>Core Courses</i>		
GEO 110	Environmental Geography	3
GEO 302W or BIO 500	Global Environmental Problems Environmental Issues	3
<i>Electives</i>		
Choose from six hours of electives from any approved AGR, ANT, APP, BIO, EHS, GEO, GLY, REC, or WLD courses		6
<b>Total Hours</b>		<b>12</b>

## Pre-Professional Health Advising

Sabrina Moore  
Science Building Room 1234  
(859) 622-7894

EKU has a number of programs that will help prepare students for professional schools following graduation. These schools generally do not require a specific major, provided that their prerequisite courses are taken. All professional schools are highly competitive in their admissions process. Thus, students should aim for strong GPA and professional school admission test scores. Students are encouraged to seek a major that they feel comfortable with, that they have a strong aptitude for, that is interesting and challenging, and that provides additional career concentrations. All students, regardless of GPA or admission test scores, will be provided with resources and assistance needed to apply for professional school that wish to do so. Additional

information may be found at [www.preprofessional.eku.edu](http://www.preprofessional.eku.edu) (<http://www.preprofessional.eku.edu>)

## Biomedical/Health-Related Research

Students with an interest in careers in biomedical/health-related research should consider a B.S. in Chemistry (Biochemistry concentration) or a B.S. in Biomedical Sciences (Research concentration). With these B.S. degrees, students may work in academic and industry research laboratories. Some students may choose to earn an advanced degree at either the M.S. or Ph.D. level. Both the Chemistry major and the Biomedical Sciences major will prepare students for these advanced degrees.

## Pre-Pharmacy

It is recommended for students interested in pharmacy to complete a four-year degree with a B.S. (Pre-Pharmacy Concentration) in chemistry. The chemistry pages in this Catalog list the appropriate courses for this concentration. The Pre-professional advisor, who is familiar with the pharmacy admissions process, will be assigned as a supplemental advisor. Students interested in pharmacy may major in any subject provided certain pre-requisite courses are taken. While it is possible for students to be admitted to a pharmacy school after just two years of undergraduate training, the competitive nature of these programs suggests students should complete their major in preparation for pharmacy school.

Pharmacy schools differ in their individual requirements, so students should check the web pages of the pharmacy school of their choice, and then determine which courses to take after consulting their pre-pharmacy advisor. The application process typically begins in the fall of the senior year. Pharmacy schools require the PCAT and they look for students with leadership potential, a strong sense of empathy, a community and university service record, and extensive experience shadowing pharmacists or working as a pharmacy technician. Admission to pharmacy schools depends on a good balance among each of these areas in addition to strong PCAT scores and a high GPA.

## Pre-Physician Associate

Physician associate professional schools are primarily in university schools of medicine and allied health. Although programs vary in length, most physician associate programs require 24-28 months to complete. Most programs require applicants to have completed a minimum of three years of college prior to admission and to have had previous health care experience. Most successful applicants to PA programs have earned a bachelor's degree, and have accumulated a significant number of hours shadowing a Physician Associate and working with patients in a clinical setting.

Prerequisite course requirements vary from school to school. Students are encouraged to consult with the pre-professional health advisor to determine which physician associate programs are of interest, and pattern their course work to fulfill these specific program requirements. It is recommended that students complete a 4 year degree majoring in BS Biomedical Sciences with a concentration in Pre-PA.

## Pre-Medical Science

Students with career interests in allopathic medicine, osteopathic medicine, or podiatry may achieve admission to professional schools by graduating in any major, provided certain prerequisites are met. Typically,

75% of students that enter medical school majored in the physical, natural, or social sciences, with the remaining 25% from other disciplines.

The College of Science offers both the Biomedical Sciences (Pre-Medical Concentration) and Chemistry (Pre-Medical Concentration) Bachelor of Science degrees. Students pursuing degrees in either department will complement their studies with appropriate courses in humanities, social sciences, and communications. Courses in mathematics and physics will also be required. All students interested in these areas are urged to visit the Department pages in this Catalog, or go on-line to find details of these major programs. More information may be found at the EKU pre-professional web page at [preprofessional.eku.edu](http://preprofessional.eku.edu) (<http://preprofessional.eku.edu>).

Students interested in medical school should consult the medical school admission requirements for their schools of interest or those published in the MSAR (Medical School Admissions Requirements) book.

Students in Biomedical Sciences or Chemistry pre-med concentrations are assigned to a pre-medical sciences advisor in their Department or the College of Science Pre-Professional advisor. These advisors work closely with each student to help plan programs of study and prepare for the process of gaining admission to the chosen professional school. EKU also has a University Pre-Health Advisory Committee. This committee assists students in their application process and prepares committee letters of evaluation for them. It is important for students to contact the chair of the University Pre-Health Advisory Committee or the pre-professional health advisor at the beginning of the academic year in which they plan to apply to medical school.

Each medical school requires an admission exam, either the MCAT for medical schools or the GRE or MCAT for podiatry schools. These professional schools also look for students with leadership potential, a strong sense of empathy, a community and university service record, and extensive experience shadowing professionals in these fields. Admission to professional schools is highly competitive and depends on a good balance among each of these areas, in addition to a strong MCAT score and a high GPA.

## Pre-Dentistry

Students interested in dentistry can major in either Chemistry (B.S., Pre-Dental Concentration) or Biomedical Sciences (B.S., Pre-Dental Concentration), although dental schools will accept students from any academic background, provided certain prerequisites are met. Students are encouraged to check individual dental schools for details of their requirements.

Students majoring in either Biomedical Sciences or Chemistry will be assigned an advisor in their department who is familiar with dental-school admissions procedures.

Dental schools require the DAT admission exam, and they look for students with leadership potential, a strong sense of empathy, a community and university service record, and extensive experience shadowing dentists. Admission to dental schools is highly competitive and depends on a good balance among each of these areas, in addition to strong DAT scores and a high GPA.

## Pre-Optometry

Students interested in admission to optometry school may complete any degree program, but typically they major in either Chemistry (B.S.) or Biomedical Sciences (Pre-Optometry concentration). See the Department

pages in this Catalog for details of these programs. Refer to specific optometry school admission requirements for listings of appropriate prerequisite courses. Students in Biomedical Sciences or Chemistry will be assigned an advisor knowledgeable about optometry admissions procedures who will assist them in their application process. This process typically begins in the fall of the junior year. Optometry schools require the OAT exam, and look for students with leadership potential, a strong sense of empathy, a community and university service record, and extensive experience shadowing optometrists.

Admission to optometry schools is highly competitive and depends on a good balance among each of these areas in addition to strong OAT scores and a high GPA.

## Pre-Veterinary Medicine

Students who have a career interest in veterinary medicine may fulfill admission requirements of specific veterinary schools by pursuing either the Biomedical Sciences major (Pre-Veterinary Medicine concentration) or the Agriculture major (B.S.). See the Department pages in this Catalog for details of these programs. Refer to specific veterinary schools for listings of appropriate prerequisite courses. Students should complement their studies with appropriate courses in humanities, social sciences, communications, and agriculture. Courses in mathematics and physics will also be required.

Students in Biomedical Sciences will be assigned an advisor knowledgeable about veterinary school admissions procedures who will assist them in their application process. Applications generally must be submitted by October 1st of the senior year. Veterinary schools typically require the GRE, and they look for students with leadership potential, a strong sense of empathy, a community and university service record, and extensive experience shadowing veterinarians. Admission to these schools is highly competitive, more so than admission to medical schools, and depends on a good balance among each of these areas in addition to strong GRE scores and a high GPA. For more information, please refer to [preprofessional.eku.edu](http://preprofessional.eku.edu) (<http://preprofessional.eku.edu>).

No Kentucky institution has a program in veterinary medicine; however, the Commonwealth has contracts to allocate a limited number of places in Auburn University's College of Veterinary Medicine to Kentucky residents. Students accepted under this program are exempt from the out-of-state tuition charge at these schools. For residents of Kentucky to be accepted under the Kentucky quota, application must be made directly to one or both of the contract schools.

## Pre-Professional Engineering

There is a pre-engineering curriculum offered by the College of Science, described below. Students interested in a particular engineering program should see the pre-engineering advisor in the Department of Physics and Astronomy. Many students also choose to complete their B.S. in Physics/engineering physics major at EKU.

In the pre-engineering curriculum, referred to as the **Dual Degree Option**, students spend two or three years at EKU taking basic science, mathematics, and general-education courses. Students then transfer their credits to the University of Kentucky, Auburn University, or another university with an accredited engineering program earning both a baccalaureate degree from EKU in Physics and an engineering degree from the engineering school.

All students pursuing a Dual-Degree Engineering Program in the Department of Physics and Astronomy should pursue the Engineering

Physics Concentration of the Physics B.S. program. Because preferred general education and supporting courses may vary depending upon the partner engineering school, it is essential that students pursuing the Dual-Degree Program in Engineering work closely with their departmental advisors.

After the first year of professional study, students transfer the work back in order to secure a Bachelor of Science degree from Eastern Kentucky University. This plan may shorten, by one year, the time needed to obtain both a baccalaureate and a professional degree.

## Minor

- Pre-Professional Health, Minor (p. 565)

## Pre-Professional Health, Minor

Students who want to pursue a career in a medical profession must prepare themselves for admission to a professional school or graduate program in their area of interest. Students are not required to complete a science-oriented degree, but they must have completed certain prerequisite courses for admission to these programs. The purpose of this minor is to provide the background that a non-science major must have to complete a successful application to medical school or other professional programs in dentistry, optometry, physician associate, pharmacy, and other health programs.

Students pursuing a degree in Biomedical Sciences or Chemistry may not declare the Pre-Professional Health minor.

## Program Requirements

Code	Title	Hours
<b>Required Courses</b>		
BIO 111	Cell and Molecular Biology <sup>1</sup>	4
BIO 307	Human Anatomy and Physiology I	3
BIO 308 or BIO 348	Human Anatomy and Physiology II Vertebrate Physiology	3
BIO 332	Careers in Biomedical Sciences	1
CHE 111 & 111L	General Chemistry and General Chemistry Lab I <sup>1</sup>	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
Choose from one of the following:		3-4
CHE 362 & 362L	Organic Chemistry II and Organic Chemistry Lab II	
CHE 430	Biochemistry of Macromolecules	
PHI 383	Health & Biomedical Ethics	3
PHY 131 or PHY 201	College Physics I University Physics I	5
PHY 132 or PHY 202	College Physics II University Physics II	5
<b>Total Hours</b>		<b>39-40</b>

1

May fulfill General Education Element 4 requirements. Other recommended courses from General Education: 6 credits of ENG (AP credit is not accepted at some medical schools), CMS 210 Public Speaking, SOC 131 Introductory Sociology, PSY 200 Introduction to Psychology and higher, MAT 120 Trigonometry or MAT 234 Calculus I depending on the program, ANT course.

BIO 112 Ecology and Evolution, BIO 320 Principles of Microbiology, and STA 270 Applied Statistics may also be required for admission to some professional schools. Students will need to check with each program for their particular entrance requirements. Certain schools may require more courses than are in this minor.

## Course Numbering

### Course Numbering

Courses are numbered according to the following plan:

Number	Description
000-099	are remedial non-degree credit courses
100-199	are primarily for freshmen
200-299	are primarily for sophomores
300-399	are primarily for juniors
400-499	are primarily for seniors
500-599	are primarily for seniors and are linked with 700 level graduate courses

A student may not take a course numbered more than one year above his/her classification level without advisor permission. To take courses numbered 300 and above in The School of Business see the College of Business and Technology section for requirements for BBA degree.

Special approval must be obtained from the dean of the college offering a 500#level course in order for junior-level students to enroll. (Students of less than junior status or unapproved juniors cannot be admitted to a 500-level course and will be disenrolled by the Registrar if such an enrollment occurs.)

## Accreditations and Memberships

Eastern Kentucky University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, masters, educational specialist, and doctorate degrees. Degree-granting institutions also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Eastern Kentucky University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website ([www.sacscoc.org](http://www.sacscoc.org)) (<https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.sacscoc.org%2F&data=05%7C01%7CShannon.Tipton%40eku.edu%7C5b4c19b0db8c4055dae208daf32e8cc1%7Ce23043271af04dee83fbc1b2fd6d45b1%7C0%7C0%7C638089678497515429%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luZmZiLCJBTiI6IklhaWw%3D&reserved=0>)).

(<https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.sacscoc.org%2F&data=05%7C01%7CShannon.Tipton%40eku.edu%7C5b4c19b0db8c4055dae208daf32e8cc1%7Ce23043271af04dee83fbc1b2fd6d45b1%7C0%7C0%7C638089678497515429%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luZmZiLCJBTiI6IklhaWw%3D&reserved=0>)).

- Memberships (p. 566)
- Specialized Accreditations (p. 567)

## Memberships

### Memberships

- AACSB International - The Association to Advance Collegiate Schools of Business
- Academy of Criminal Justice Sciences
- Academy of Nutrition and Dietetics
- Aircraft Owners and Pilots Association
- American Association of Airport Executives (AAAE)
- American Association of Colleges of Nursing
- American Association of Colleges for Teacher Education
- American Association of Collegiate Registrars and Admission Officers
- American Association of Educational Service Agencies
- American Association of Family and Consumer Sciences
- American Association of State Colleges of Agriculture and Renewable Resources
- American Association of State Colleges and Universities
- American Association of University Women
- American Association for Paralegal Education
- American College Health Association
- American Conference of Academic Deans
- American Correctional Association
- American Council for Construction Education (ACCE)
- American Council on Education
- American Council on the Teaching of Foreign Languages
- American Driver and Traffic Safety Education Association
- American Historical Association
- American Hospital Association
- American Health Information Management Association Assembly on Education
- American Mathematical Society
- American Occupational Therapy Association
- American Political Science Association
- American Society of Allied Health Professions
- American Society of Human Genetics
- American Society for Training and Development
- American Statistical Association
- American Technical Education Association
- Associated Schools of Construction (ASC)
- Association for Career and Technical Education (ACTE)
- Association for Computing Machinery
- Association for Education in Journalism and Mass Communication
- Association for Supervision and Curriculum Development
- Association for General and Liberal Studies
- Association for Gerontology in Higher Education
- Association for School, College, and University Staffing, Inc.

- Association of Technology, Management, and Applied Engineering (ATMAE)
- Association of Departments of English
- Association of Departments of Foreign Languages
- Association of Environmental Health Academic Programs
- Association of Governing Boards of Universities and Colleges
- Association of Graduate Faculties in Public Health Nutrition
- Association of Schools of Journalism and Mass Communication
- Aviation Information Resources, Inc.
- Broadcast Education Association
- Broadcast Promotion and Marketing Executives Association
- College Art Association
- College Language Association
- College Placement Council, Inc.
- Conference of Southern Graduate Schools
- Consortium for the Advancement of Undergraduate Statistics Education
- Council for Advancement and Support of Education
- Council of Applied Masters Programs in Psychology
- Council of Colleges of Arts and Sciences
- Council of Graduate Departments of Psychology
- Council of Graduate Schools
- Council on Social Work Education
- Flexographic Technical Association
- Graphic Arts Technical Foundation
- Graphic Communications Council
- International Graphic Arts Education Association
- International Reading Association
- International Society of Weekly Newspaper Editors
- International Technology and Engineering Education Association (ITEEA)
- International Television Association
- Kentucky Academy of Science
- Kentucky Association of Department of English
- Kentucky Aviation Association (KAA)
- Kentucky Broadcasters Association
- Kentucky Communication Association
- Kentucky Occupational Therapy Association
- Kentucky Agriculture Council
- Kentucky Paramedic Association
- Kentucky Press Association
- Kentucky Recreation and Park Society
- Kentucky Tourism Council
- Mathematical Association of America
- Mid-South Educational Research Association
- Modern Language Association
- National Athletic Trainers Association
- National Association for Business Teacher Education
- National Association for the Exchange of Industrial Resources
- National Association for Foreign Student Affairs
- National Association of Advisors for the Health Professions
- National Association of College Admission Counselors
- National Association of College and University Attorneys
- National Association of Colleges and Teachers of Agriculture
- National Association of School Music Dealers, Inc.
- National Association of Schools of Music
- National Association of Schools of Public Affairs and Administration
- National Association of Student Personnel Administrators
- National Business Aviation Association (NBAA)
- National Collegiate Athletic Association
- National Collegiate Honors Council
- National Commission for Cooperative Education
- National Communication Association
- National Council of Arts Administrators
- National Council of Teachers of English
- National Environmental Health Association
- National Faculty Exchange
- National Fire Protection Association
- National Intercollegiate Flying Association
- National Intramural Recreational Sports Association
- National Juvenile Detention Association
- National Organization for Associate Degree Nursing
- National Recreation and Park Association
- National Safety Council
- National Society for Experiential Education
- National University Continuing Education Association
- National Wellness Association
- Newspaper Association of America
- Non-land-grant Agricultural and Renewable Resources Universities (NARRU)
- Public Relations Society of America
- Public Relations Student Society of America
- Screen Printing and Graphic Imaging Association
- Society of Professional Journalists
- Southeastern Airport Managers Association
- Southeastern Association of Advisors for the Health Professions
- Southeastern College Art Conference
- Southern Association of Colleges and Schools Commission on Colleges
- Southern Association of Collegiate Registrars and Admission Officers
- Southern Association of Community, Junior, and Technical Colleges
- Southern Council on Collegiate Education for Nursing
- Southern Regional Education Board
- Southern Regional Honors Council
- Teacher Education Council of State Colleges and Universities
- Trainer of School Psychologists
- Travel and Tourism Research Association
- University Aviation Association (UAA)

## Specialized Accreditations

- AACSB International – The Association to Advance Collegiate Schools of Business (AACSB International) for Master of Business Administration, Bachelor of Business Administration in Accounting, Computer Information Systems, Risk Management & Insurance,

- General Business, Management, and Marketing, and Bachelor of Science in Insurance Programs.
- Accreditation Commission for Education in Nursing (ACEN) for Associate Degree in Nursing.
  - Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics for Didactic Program in Dietetics for Bachelor of Science in Food and Nutrition, Dietetics concentration.
  - Accreditation Council for Occupational Therapy Education (ACOTE) for the Master of Science and Doctorate in Occupational Therapy.
  - American Academy of Forensic Sciences – Forensic Science Education Programs Accreditation Commission (AAFS-FEPAC) for Bachelor of Science in Digital Forensics and Cybersecurity and Bachelor of Science in Forensic Science Program (Forensic Biology and Forensic Chemistry concentrations).
  - American Bar Association (ABA) for Associate of Applied Science in Paralegal Studies, Bachelor of Arts in Paralegal Science, and Undergraduate Certificate in Paralegal Science.
  - American Chemical Society (Certification) (ACS) for Bachelor of Science in Chemistry (all options) Program.
  - American Council for Construction Education (ACCE) for Bachelor of Science in Construction Management.
  - American Psychological Association (APA) for Doctor in Psychology.
  - American Speech-Language-Hearing Association (ASHA) for Masters of Arts in Communication Disorders.
  - Association of Technology, Management, and Applied Engineering (ATMAE) for Bachelor of Science in Engineering Technology Management, Bachelor of Science in Cyber Systems Technology, and Associate of Applied Science in Technology.
  - Commission on Accreditation of Allied Health Education Programs - Joint Review Committee on Educational Programs for EMT Paramedic (CAAHEP-EMT) for Bachelor of Science in Emergency Medical Care and Associate of Science in Paramedicine.
  - Commission on Accreditation of Athletic Training Education (CAATE) for Master of Science in Athletic Training.
  - Commission on Collegiate Interpreter Education (CCIE) for Bachelor of Science in ASL and English Interpretation.
  - Commission on Collegiate Nursing Education (CCNE) for Bachelor of Science in Nursing; Master of Science in Nursing; Doctor of Nursing Practice.
  - Commission on Health Informatics and Information Management Education (CAHIIM) for Bachelor of Science in Health Services Administration.
  - Computing Accreditation Commission of ABET (ABET-CAC) for Bachelor of Science in Computer Science (with Concentration in General Computer Science).
  - Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association for Master of Arts in Communication Disorders.
  - Council on Accreditation of Parks, Recreation and Tourism for Bachelor of Science in Recreation and Parks Administration.
  - Council for Accreditation of Counseling and Related Educational Programs (CACREP) for Master of Arts in Clinical Mental Health Counseling, the Master of Arts Education in School Counseling Programs, and the Doctor of Education (Concentration in Counselor Education and Supervision).
  - Council for the Accreditation of Educator Preparation (CAEP) (formerly the National Council for Accreditation of Teacher Education) for CARES (formerly Teacher Education Services), for Bachelor of Science in Elementary Education, Bachelor of Science in Middle Grade Education, Master of Arts Teaching, Master of Arts Education in Elementary Education, Master of Arts Education in Middle Grade Education, Master of Arts Education in Secondary Education, Master of Arts Education in Library Science, Master of Arts Education in Literacy, Master of Arts Education in Gifted Education, Rank I Elementary Education, Rank I Middle Grade Education, Rank I Secondary Education, Rank I Library Science, Business and Marketing Education/Teaching, Career and Technical Education/Teaching, School Psychology – Specialist in Psychology Degree Program, Physical Education/Teaching, Health Education/Teaching, and Family & Consumer Science Education/Teaching Programs.
  - Council on Education for Public Health (CEPH) for Bachelor of Science in Public Health, Master of Public Health, Bachelor of Science in Environmental Health Science and Sustainability.
  - Council on Education for Public Health - Association of Graduate Faculties in Public Health (CEPH) for Master of Science in Community Nutrition.
  - Council on Social Work Education (CSWE) for Bachelor of Social Work.
  - Education of the Deaf and Hard of Hearing Program for Bachelor of Science in Education of the Deaf and Hard of Hearing, Master of Arts Education (Graduate Deaf and Hard of Hearing Certification), Master of Arts Teaching (Deaf and Hard and Hard of Hearing Education).
  - International Fire Service Accreditation Congress (IFSAC) for Bachelor of Science in Fire Protection Administration, Bachelor of Science in Fire Arson and Explosion Investigation, and Bachelor of Science in Fire Protection, and Safety Engineering Technology.
  - Kentucky Board of Nursing (KBN) for Associate of Science in Nursing, Bachelor of Science in Nursing, Master of Science in Nursing, and Doctor of Nursing Practice.
  - National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) for Bachelor of Science in Medical Laboratory Science.
  - National Association of Schools of Music (NASM) for Master of Music and Bachelor of Music.
  - National Association of School Psychologists (NASP) for Specialist in School Psychology Program.
  - National Environmental Health Science and Protection Accreditation Council (EHAC) for Bachelor of Science in Environmental Health Science and Sustainability and Master of in Public Health.
  - Network of Schools of Public Policy, Affairs, and Administration (NSPPAA) (formerly National Association of Schools of Public Affairs and Administration) for Master of Public Administration.
  - North American Association for Environmental Education for the Undergraduate Certificate in Environmental Education and the Graduate Certificate in Environmental Education.
  - Professional Golfers Association of America (PGA) for Bachelor of Business Administration in Marketing (PGA Golf Management Concentration).
  - Public Relations Society of America (Certification) (PRSA) for Bachelor of Arts in Public Relations Program.

# GRADUATE

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## Eastern Kentucky University Graduate Catalog 2022-2023

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Dr. David T. McFaddin

### Board Of Regents

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Office of Institutional Equity of Eastern Kentucky University  
Jones Building, Room 416, CPO 37A  
Richmond, KY 40475-3102  
859-622-8020 v/tdd

The Board of Regents of Eastern Kentucky University does hereby reaffirm the University's commitment to providing educational opportunities to all qualified students regardless of economic or social status and ensuring that participation in all University sponsored activities will be administered in a way that furthers the principles of equal employment and educational opportunities.

Eastern Kentucky University does not discriminate on the basis of disability in the admission or access to educational opportunities, programs or activities. The Director of The Center for Student Accessibility, Whitlock Building 361, CPO 66, Eastern Kentucky University, Richmond, Kentucky 40475, coordinates compliance with all federal, state and local laws and regulations concerning access for disabled individuals. Requests for information concerning the Americans with Disabilities Act and other federal and state laws relating to

disabilities and the rights provided thereunder, as well as all requests for accommodations based upon disability should be directed to this office.

Eastern Kentucky University is committed to providing a healthy and safe environment for its students, faculty and staff through its compliance with the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendment of 1989. In accordance with these laws, students, faculty and staff are hereby notified of the standards of conduct which shall be applicable while on University property, on University business or at University sponsored activities.

By University rules and regulations, federal laws, state laws, and local ordinances, students, faculty and staff are prohibited from the unlawful possession, use, dispensation, distribution, or manufacture of illicit drugs on University property, on University business and/or at University sponsored activities.

Any member of the student body, faculty or staff who violates the University's standards of conduct shall be subject to appropriate disciplinary action up to and including suspension and/or termination. In addition to disciplinary sanctions, students or employees may face prosecution and imprisonment under federal and/or state laws which make such acts felony or misdemeanor crimes. The specifically defined standards of conduct, the disciplinary procedures and possible sanctions appear in the *Student Handbook* and the *Faculty Handbook*.

Continuous efforts are made to make students, faculty and staff aware of the on-campus and off-campus programs which provide information and professional services on matters related to the abuse of alcohol and drugs. For additional information individuals should contact the Eastern Kentucky University Counseling Center.

## Federal Regulations

### Provisions of the Family Educational Rights and Privacy Act of 1974 (as amended) Public Law 93-380

This is to serve notice to all students of Eastern Kentucky University of the rights and restrictions regarding the maintenance, inspection, and release of student records contained in the Family Educational Rights and Privacy Act of 1974 (FERPA), as amended. The University is composed of five colleges and offers a wide variety of services to students. Each college and service requires the maintenance of some records concerning students enrolled in a particular college or participating in a nonacademic service. The location and type of record maintained by the University depends upon the field of study or service in which the student is enrolled. The following is a list of the types of records maintained by the University for students:

1. Grade reports
2. Transcripts
3. Curriculum information
4. Applications for graduation
5. Correspondence with students, if any
6. Withdrawal records, if applicable
7. Admission forms
8. ACT test scores
9. Student teacher evaluations, if applicable
10. Letters of recommendation, if applicable
11. Nominations for awards, if applicable
12. Biographical data
13. Evaluation forms, if applicable

14. Weekly student teacher logs, if applicable
15. Mid-term evaluation, if applicable
16. Records of school visitations, if applicable
17. Physical education requirement waivers
18. Field training evaluations and correspondence, if applicable
19. Professional conduct agreements and liability insurance coverage

1. **Access to Records:** In general, the records maintained by the University are available only to the student, to University personnel with legitimate educational interests, to other institutions where the student is seeking financial aid, and to authorized representatives of the Comptroller General of the U.S., the Secretary of Education, or an administrative head of an education agency, in connection with an audit or evaluation of federally support programs, and as provided by Section 164.283 of the Kentucky Revised Statutes. However, information may be released by the institution to appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of a student or other persons. Records may also be furnished in compliance with a judicial order or pursuant to a subpoena or with the consent of the student.

Students may inspect and review all records pertaining to them within forty-five (45) days of making request for same, except for

- a. records created or maintained by a physician, psychiatrist, psychologist or other recognized professional or paraprofessional acting or assisting in a professional capacity in connection with treatment of the student (except that the student may have these records reviewed by a physician or appropriate professional designated by the student),
- b. financial records of the student's parents,
- c. confidential letters and recommendations put in the files prior to January 1, 1975, and
- d. confidential recommendations relating to admission, applications for employment, or honors, if the student has waived his/her right to review such records.

Where a particular record cannot be reviewed by a student without revealing confidential information relating to other students, the records custodian will inform the student, upon request, of the contents of the record pertaining to that student.

Parents who claim a student as a dependent may present their federal tax declaration, in lieu of having the student's written consent, to gain access to information concerning their children's grades.

2. **Procedures for Challenge:** A student who believes that any record maintained by the University pertaining directly to that student is inaccurate, misleading, or otherwise violative of the right of privacy of the student as provided by Title IV of Pub. L. 90-247, as amended, and Publ. L. 93-380 as amended by Senate Joint Resolution 40 (1974) may request a hearing before a panel of three persons appointed by the President of the University. The panel may direct that appropriate action be taken to correct, explain, or expunge the record(s) challenged.

Request for hearings should be addressed to the

Office of University Counsel  
Eastern Kentucky University  
Coates Room 212, CPO 40A  
521 Lancaster Avenue

Richmond, Kentucky 40475-3102.

3. **Directory Information:** The University may release information without the student's consent where the information is classified as "directory information." The following categories of information have been designated by the University as directory information: name, address, telephone listing, email address, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous education institution attended by the student. Students who do not wish such information released without their consent should notify the Student Records Office in writing. Any such request should be sent to

Office of the Registrar, Office of Academic Records/Transcripts  
Eastern Kentucky University  
Whitlock Building Room 239, CPO 58  
521 Lancaster Avenue  
Richmond, Kentucky 40475-3158.

4. **Notification of Rights Under FERPA for Postsecondary Institutions:**

The Family Educational Rights and Privacy Act affords students certain rights with respect to their education records. They are:

- a. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- b. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

- c. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate education interest

if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

- d. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA are:

Family Policy Compliance Office  
U.S. Department of Education  
600 Independence Avenue SW  
Washington, DC 20202-4605.

## Student Right-To-Know Act (Pub. L. 101-542)

### Eastern Kentucky University 1999-2000

Section 103 of the Student Right-To-Know and Campus Security Act of 1990 (Public Law 101-542) as amended by the Higher Education Technical Amendments of 1991 (Public Law 102-26) requires public disclosure of relevant graduation rate information for students enrolled in colleges and universities receiving federal financial assistance annually beginning July 1, 1993. Graduation rate information is published each year in the *University Handbook for Students* or may be obtained upon request from the

Office of the Executive Vice President for Academics and Provost  
Coates Administration Building  
Room 110, CPO 30A  
521 Lancaster Avenue  
Richmond, Kentucky 40475-3102.

## About Eastern Kentucky University Introduction

Eastern Kentucky University is a regional, coeducational, public institution of higher education offering general and liberal arts programs, pre-professional and professional training in education and various other fields at both the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, Eastern Kentucky University has a distinguished record of more than a century of educational service to the Commonwealth.

Situated near the heart of the Bluegrass, Richmond is served by a network of major highways which makes Eastern Kentucky University easily accessible from all parts of Kentucky and surrounding states. Richmond is 26 miles southeast of Lexington, Kentucky. Interstate Highways I-75 (north-south) and I-64 (east-west) make the metropolitan areas of Cincinnati, 112 miles to the north, and Louisville, 110 miles to the west, within convenient distance by automobile. Richmond is also served by U.S. Route 25 from south Eastern Kentucky and Kentucky Route 52 from the east and west. The Kentucky Turnpike and the Mountain, Hal Rogers, and Cumberland Parkways provide even greater accessibility by automobile since the city is located near the convergence of these arterial highways into the interstate system.

Richmond, the county seat of Madison County, is an expanding community of approximately 30,000 population.

In and around Richmond are many areas of historic and scenic interest. Boonesborough State Park, birthplace of Kentucky, is located 12 miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

## History

The Kentucky General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. Beckham signed the bill into law on March 21, 1906. On May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of the old Central University, founded in 1874, in Richmond, Kentucky, as the site of the new school. On June 2, 1908, Ruric Nevel Roark was chosen President of the Normal School and the training of teachers was begun.

In 1922, Eastern Kentucky University became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts degree in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the college and granted the college the right to award nonprofessional degrees.

The most significant day since its founding came for Eastern on February 26, 1966, when Governor Edward T. Breathitt signed into law a bill renaming the institution Eastern Kentucky University (EKU) and sanctioning the awarding of graduate degrees in academic fields other than education.

During this period of time, Eastern Kentucky University has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the University today serves thousands of Kentuckians. The curriculum leads to associate degrees, baccalaureate degrees, and an expanding graduate program that currently offers degrees at the master's level in many other fields as well as the already well-established Master of Arts degree in Education and the various fifth- and sixth-year leadership programs in education. Specialist degree programs have been implemented in education and psychology.

In 2008, EKU offered its first doctoral degree, the Doctor of Education (Ed.D.). In addition to these programs, Eastern Kentucky University offers cooperative doctoral programs with cooperating institutions.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its historic function of preparing quality teachers for the elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas and graduate programs, enable Eastern to serve the Commonwealth as a regional comprehensive university.

## Experience Excellent: EKU's 2022-2030 Strategic Plan

### Mission Statement

Eastern Kentucky University is the School of Opportunity where everyone belongs. World class faculty and staff create opportunities for personal

growth through exceptional experiences, to ensure students realize their fullest potential and achieve excellence. EKU graduates shape the success and vitality of their professions and communities.

## Vision

Eastern Kentucky University will be excellent in all that we choose to do.

## Strategic Priorities

### Goal 1: Knowledge

Knowledge is at the center of EKU's commitment to serve as the School of Opportunity. From academic teaching and learning to experiential co- and extracurricular activities, EKU strategically advances academic and student success programs that support EKU's diverse learners.

### Goal 2: Innovation

Innovative thinking and bold action will elevate and differentiate EKU. Innovation will enhance organizational stewardship, intellectual and creative capacity, and economic vitality within EKU and the communities we serve.

### Goal 3: Transformation

EKU is dedicated to transforming lives and communities. EKU's learning environments support intellectual growth, creativity, empowerment, and life-changing experiences by centering access, equity, dignity, respect, and inclusivity.

## Guiding Values

**Inclusion:** Community engagement, Diversity of people and perspectives, Professional growth, Hospitality, Celebration

**Trust:** Consistency, Effective communication, Accountability, Efficiency, Leadership

Since its inception in 1874, Eastern Kentucky University (then known as Central University) has been driven by core values. Although its mission has evolved and expanded to meet the changing needs of citizens of the Commonwealth (and increasingly other places in the world), core values are still an integral part of the University community. Values are the code of organizational conduct. They guide decision-making in all parts of the University. They direct our actions and must inspire all of us in the EKU community to be true to them. The EKU community is committed to embodying these values in our policies and procedures in our day-to-day activities to accomplish our mission and achieve our vision. EKU has been and will continue to be guided by the following values when planning strategies and implementing decisions regarding the University community's teaching, scholarly, and service activities.

## Residency

- Student Residency (p. 572)
- Residency Appeals Policy and Procedures (p. 577)

## Student Residency

Since registration and other fees and residence hall room rents are subject to change periodically, no attempt is made in this publication to itemize these costs. This information is available from the Office of Admissions prior to the beginning of each academic year.

Any veteran of the Armed Forces of the United States or National Guard who is eligible for Post-9/11 GI Bill<sup>®</sup> benefits who enrolls as a student in the university as a non-Kentucky resident will be charged no more than the maximum tuition reimbursement provided under the Post-9/11 GI Bill<sup>®</sup> to public universities for eligible Kentucky residents. Veterans must submit a DD-214 or VA Certificate (Letter) of Eligibility for Post 9-11 (Chapter 33) GI Bill<sup>®</sup> benefits through the Office of Military and Veterans Affairs to the Office of Admissions to validate their eligibility for this provision.

**13 KAR 2:045. Determination of residency status for admission and tuition assessment purposes.**

**Relates to:** KRS 13B, 164.020, 164.030, 164A.330(6), 38 U.S.C. 3301-3325

**Statutory Authority:** KRS 164.020(8)

## Necessity, Function, and Conformity

KRS 164.020(8) requires the Council on Postsecondary Education to determine tuition and approve the minimum qualifications for admission to a state-supported postsecondary education institution and authorizes the Council to set different tuition amounts for residents of Kentucky and for nonresidents. This administrative regulation establishes the procedure and guidelines for determining the residency status of a student who is seeking admission to, or who is enrolled at, a state-supported postsecondary education institution.

## Section 1. Definitions

1. "Academic term" means a division of the school year during which a course of studies is offered, and includes a semester, quarter, or single consolidated summer term as defined by the institution.
2. "Continuous enrollment" means enrollment in a state-supported postsecondary education institution at the same degree level for consecutive terms, excluding summer term, since the beginning of the period for which continuous enrollment is claimed unless a sequence of continuous enrollment is broken due to extenuating circumstances beyond the student's control, such as serious personal illness or injury, or illness or death of a parent.
3. "Degree level" means enrollment in a course or program which could result in the award of a:
  - a. Certificate, diploma, or other program award at an institution;
  - b. Baccalaureate degree or lower, including enrollment in a course by a non-degree-seeking post-baccalaureate student;
  - c. Graduate degree or graduate certification other than a first-professional degree in law, medicine, dentistry, or "Pharm. D"; or
  - d. Professional degree in law, medicine, dentistry, or "Pharm. D".
4. "Dependent person" means a person who cannot demonstrate financial independence from parents or persons other than a spouse and who does not meet the criteria for independence established in Section 5 of this administrative regulation.
5. "Determination of residency status" means the decision of a postsecondary education institution that results in the classification of a person as a Kentucky resident or as a nonresident for admission and tuition assessment purposes.
6. "Domicile" means a person's true, fixed, and permanent home and is the place where the person intends to remain indefinitely, and to which the person expects to return if absent without intending to establish a new domicile elsewhere.

7. "Full-time employment" means continuous employment for at least forty-eight (48) weeks at an average of at least thirty (30) hours per week.
  8. "Independent person" means a person who demonstrates financial independence from parents or persons other than a spouse and who meets the criteria for independence established in Section 5 of this administrative regulation.
  9. "Institution" means an entity defined by KRS 164.001(12) if the type of institution is not expressly stated and includes the Kentucky Virtual University, the Council on Postsecondary Education, and the Kentucky Higher Education Assistance Authority.
  10. "Kentucky resident" means a person determined by an institution for tuition purposes to be domiciled in, and a resident of, Kentucky as determined by this administrative regulation.
  11. "Nonresident" means a person who:
    - a. Is domiciled outside Kentucky;
    - b. Currently maintains legal residence outside Kentucky; or
    - c. Is not a Kentucky resident as determined by this administrative regulation.
  12. "Parent" means one (1) of the following:
    - a. A person's father or mother; or
    - b. A court-appointed legal guardian if:
      - i. The guardianship is recognized by an appropriate court within the United States;
      - ii. There was a relinquishment of the rights of the parents; and
      - iii. The guardianship was not established primarily to confer Kentucky residency on the person.
  13. "Preponderance of the evidence" means the greater weight of evidence or evidence that is more credible and convincing to the mind.
  14. "Residence" means the place of abode of a person and the place where the person is physically present most of the time for a non-educational purpose in accordance with Section 3 of this administrative regulation.
  15. "Student financial aid" means all forms of payments to a student if one (1) condition of receiving the payment is the enrollment of the student at an institution, and includes student employment by the institution or a graduate assistantship.
  16. "Sustenance" means:
    - a. Living expenses, such as room, board, maintenance, and transportation; and
    - b. Educational expenses, such as tuition, fees, books, and supplies.
3. Unless otherwise indicated, this administrative regulation shall apply to all student residency determinations, regardless of circumstances, including residency determinations made by:
    - a. The state-supported institutions for prospective and currently-enrolled students;
    - b. The Southern Regional Education Board for contract spaces;
    - c. Reciprocity agreements, if appropriate;
    - d. The Kentucky Virtual University;
    - e. Academic common market programs;
    - f. The Kentucky Educational Excellence Scholarship Program; and
    - g. Other state student financial aid programs, as appropriate.

### Section 3. Determination of Residency Status; General Rules

1. A determination of residency shall include:
  - a. An initial determination of residency status by an institution:
    - i. During the admission process;
    - ii. Upon enrollment in an institution for a specific academic term; or
    - iii. For admission into a specific academic program;
  - b. A reconsideration of a determination of residency status by an institution based upon a changed circumstance; or
  - c. A formal hearing conducted by an institution upon request of a student after other administrative procedures have been completed.
2. An initial determination of residency status shall be based upon:
  - a. The facts in existence when the credentials established by an institution for admission for a specific academic term have been received and during the period of review by the institution;
  - b. Information derived from admissions materials;
  - c. If applicable, other materials required by an institution and consistent with this administrative regulation; and
  - d. Other information available to the institution from any source.
3. An individual seeking a determination of Kentucky residency status shall demonstrate that status by a preponderance of the evidence.
4. A determination of residency status shall be based upon verifiable circumstances or actions.
5. Evidence and information cited as the basis for Kentucky domicile and residency shall accompany the application for a determination of residency status.
6. A student classified as a nonresident shall retain that status until the student is officially reclassified by an institution.
7. A student may apply for a review of a determination of residency status once for each academic term.
8. If an institution has information that a student's residency status may be incorrect, the institution shall review and determine the student's correct residency status.
9. If the Council on Postsecondary Education has information that an institution's determination of residency status for a student may be incorrect, it may require the institution to review the circumstances and report the results of that review.
10. An institution shall impose a penalty or sanction against a student who gives incorrect or misleading information to an institutional official, including payment of nonresident tuition for each academic term for which resident tuition was assessed based on an improper determination of residency status. The penalty or sanction may also include:

### Section 2. Scope

1. State-supported postsecondary education institutions were established and are maintained by the Commonwealth of Kentucky primarily for the benefit of qualified residents of Kentucky. The substantial commitment of public resources to postsecondary education is predicated on the proposition that the state benefits significantly from the existence of an educated citizenry. As a matter of policy, access to postsecondary education shall be provided so far as feasible at reasonable cost to a qualified individual who is domiciled in Kentucky and who is a resident of Kentucky.
2. In accordance with the duties established in KRS 164.020, the Council on Postsecondary Education may require a student who is neither domiciled in, nor a resident of, Kentucky to meet higher admission standards and to pay a higher level of tuition than resident students.

- a. Student discipline by the institution through a policy written and disseminated to students; or
- b. Criminal prosecution.

#### Section 4. Presumptions Regarding Residency Status

1. In making a determination of residency status, it shall be presumed that a person is a nonresident if:
  - a. A person is, or seeks to be, an undergraduate student and admissions records show the student to be a graduate of an out-of-state high school within five (5) years prior to a request for a determination of residency status;
  - b. A person's admissions records indicate the student's residence to be outside of Kentucky when the student applied for admission;
  - c. A person moves to Kentucky primarily for the purpose of enrollment in an institution;
  - d. A person moves to Kentucky and within twelve (12) months enrolls at an institution more than half time;
  - e. A person has a continuous absence of one (1) year from Kentucky; or
  - f. A person attended an out-of-state higher education institution during the past academic year and paid instate tuition at that institution.
2. A presumption arising from subsection (1) of this section shall only be overcome by preponderance of evidence sufficient to demonstrate that a person is domiciled in and is a resident of Kentucky.

#### Section 5. Determination of Whether a Student is Dependent or Independent

1. In a determination of residency status, an institution shall first determine whether a student is dependent or independent. This provision shall be predicated on the assumption that a dependent person lacks the financial ability to live independently of the person upon whom the student is dependent, and therefore, lacks the ability to form the requisite intent to establish domicile.

A determination that a student is independent shall be one (1) step in the overall determination of whether a student is or is not a resident of Kentucky.

2. In determining the dependent or independent status of a person, the following information shall be considered, as well as other relevant information available when the determination is made:
  - a.
    - i. Whether the person has been claimed as a dependent on the federal or state tax returns of a parent or other person for the year preceding the date of application for a determination of residency status; or
    - ii. Whether the person is no longer claimed by a parent or other person as a dependent or as an exemption for federal and state tax purposes; and
  - b. Whether the person has financial earnings and resources independent of a person other than an independent spouse necessary to provide for the person's own sustenance.
3. An individual who enrolls at an institution immediately following graduation from high school and remains enrolled shall be presumed to be a dependent person unless the contrary is evident from the information submitted.
4. Domicile may be inferred from the student's permanent address, parent's mailing address, or location of high school of graduation.

5. Marriage to an independent person domiciled in and who is a resident of Kentucky shall be a factor considered by an institution in determining whether a student is dependent or independent.
6. Financial assistance from, or a loan made by, a parent or family member other than an independent spouse, if used for sustenance of the student:
  - a. Shall not be considered in establishing a student as independent; and
  - b. Shall be a factor in establishing that a student is dependent.

#### Section 6. Effect of a Determination of Dependent Status on a Determination of Residency Status

1. The effect of a determination that a person is dependent shall be:
  - a. The domicile and residency of a dependent person shall be the same as either parent. The domicile and residency of the parent shall be determined in the same manner as the domicile and residency of an independent person; and
  - b. The domicile and residency of a dependent person whose parents are divorced, separated, or otherwise living apart shall be Kentucky if either parent is domiciled in and is a resident of Kentucky regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to federal or Kentucky income tax provisions.
2. If the parent or parents of a dependent person are Kentucky residents and are domiciled in Kentucky, but subsequently move from the state:
  - a. The dependent person shall be considered a resident of Kentucky while in continuous enrollment at the degree level in which currently enrolled; and
  - b. The dependent person's residency status shall be reassumed if continuous enrollment is broken or the current degree level is completed.

#### Section 7. Member or Former Member of Armed Forces of the United States, Spouse and Dependents; Effect on a Determination of Residency Status

1. A member, spouse, or dependent of a member whose domicile and residency was Kentucky when inducted into the Armed Forces of the United States, and who maintains Kentucky as home of record and permanent address, shall be entitled to Kentucky residency status:
  - a. During the member's time of active service; or
  - b. If the member returns to this state within six (6) months of the date of the member's discharge from active duty.
2.
  - a. A member of the armed services on active duty for more than thirty (30) days and who has a permanent duty station in Kentucky shall be classified as a Kentucky resident and shall be entitled to in-state tuition as shall the spouse or a dependent child of the member.
  - b. A member, spouse, or dependent of a member shall not lose Kentucky residency status if the member is transferred on military orders while the member, spouse, or dependent requesting the status is in continuous enrollment at the degree level in which currently enrolled.
3. Membership in the National Guard or civilian employment at a military base alone shall not qualify a person for Kentucky residency status under the provisions of subsections (1) and (2) of this section. If a member of the Kentucky National Guard is on active duty status for a period of not less than thirty (30) days, the member shall be

considered a Kentucky resident, as shall the spouse or a dependent child of the member.

4. A person eligible for benefits under the federal Post-9/11 Veterans Educational Assistance Act of 2008, 38 U.S.C. 3301-3325, or any other educational benefits provided under Title 38 of the United States Code shall be entitled to Kentucky resident status for purposes of tuition charged at state-supported institutions.
5. A person's residency status established pursuant to this section shall be reassessed if the qualifying condition is terminated.

## Section 8. Status of Nonresident Aliens; Visas and Immigration

1.
  - a. A person holding a permanent residency visa or classified as a political refugee shall establish domicile and residency in the same manner as another person.
  - b. Time spent in Kentucky and progress made in fulfilling the conditions of domicile and residency prior to obtaining permanent residency status shall be considered in establishing Kentucky domicile and residency.
2. A person holding a nonimmigrant visa with designation A, E, G, H-1, H-4 if accompanying a person with an H-1 visa, I, K, L, N, R, shall establish domicile and residency the same as another person.
3.
  - a. An independent person holding a nonimmigrant visa with designation B, C, D, F, H-2, H-3, H-4 if accompanying a person with an H-2 or H-3 visa, J, M, O, P, Q, S, TD, or TN shall not be classified as a Kentucky resident because that person does not have the capacity to remain in Kentucky indefinitely and therefore cannot form the requisite intent necessary to establish domicile as defined in Section 1(6) of this administrative regulation.
  - b. A dependent person holding a visa as described in paragraph (a) of this subsection, but who is a dependent of a parent holding a visa as described in subsection (2) of this section, shall be considered as holding the visa of the parent.
  - c. A dependent person holding a visa described in subsection (2) of this section or paragraph (a) of this subsection, if a parent is a citizen of the United States and is a resident of and domiciled in Kentucky, shall be a resident of Kentucky for the purposes of this administrative regulation.
4. A person shall be a Kentucky resident for the purpose of this administrative regulation if the person graduated from a Kentucky high school and:
  - a. Is an undocumented alien;
  - b. Holds a visa listed in subsections (2) or (3)(a) of this section; or
  - c. Is a dependent of a person who holds a visa listed in subsections (2) or (3)(a) of this section.
5.
  - a. Except as provided in paragraph (b) of this subsection, a person who has petitioned the federal government to reclassify visa status shall continue to be ineligible until the petition has been granted by the federal government.
  - b. A person who has petitioned the federal government to reclassify his or her visa status based on marriage to a Kentucky resident and who can demonstrate that the petition has been filed and acknowledged by the federal government, may establish Kentucky domicile and residency at that time.

## Section 9. Beneficiaries of a Kentucky Educational Savings Plan Trust

A beneficiary of a Kentucky Educational Savings Plan Trust shall be granted residency status if the beneficiary meets the requirements of KRS 164A.330(6).

## Section 10. Criteria Used in a Determination of Residency Status

1.
  - a. A determination of Kentucky domicile and residency shall be based upon verifiable circumstances or actions.
  - b. A single fact shall not be paramount, and each situation shall be evaluated to identify those facts essential to the determination of domicile and residency.
  - c. A person shall not be determined to be a Kentucky resident by the performance of an act that is incidental to fulfilling an educational purpose or by an act performed as a matter of convenience.
  - d. Mere physical presence in Kentucky, including living with a relative or friend, shall not be sufficient evidence of domicile and residency.
  - e. A student or prospective student shall respond to all requests for information regarding domicile or residency requested by an institution.
2. The following facts, although not conclusive, shall have probative value in their entirety and shall be individually weighted, appropriate to the facts and circumstances in each determination of residency:
  - a. Acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining residence and domicile in Kentucky;
  - b. Continuous physical presence in Kentucky while in a nonstudent status for the twelve (12) months immediately preceding the start of the academic term for which a classification of Kentucky residency is sought;
  - c.
    - i. Filing a Kentucky resident income tax return for the calendar year preceding the date of application for a change in residency status; or
    - ii. Payment of Kentucky withholding taxes while employed during the calendar year for which a change in classification is sought;
  - d. Full-time employment of at least one (1) year while living in Kentucky;
  - e. Attendance as a full-time, nonresident student at an out-of-state institution based on a determination by that school that the person is a resident of Kentucky;
  - f. Abandonment of a former domicile or residence and establishing domicile and residency in Kentucky with application to or attendance at an institution following and incidental to the change in domicile and residency;
  - g. Obtaining licensing or certification for a professional and occupational purpose in Kentucky;
  - h. Payment of real property taxes in Kentucky;
  - i. Ownership of real property in Kentucky, if the property was used by the student as a residence preceding the date of application for a determination of residency status;
  - j. Marriage of an independent student to a person who was domiciled in and a resident of Kentucky prior to the marriage; and

- k. The extent to which a student is dependent on student financial aid in order to provide basic sustenance.
3. Except as provided in subsection (4) of this section, the following facts, because of the ease and convenience in completing them, shall have limited probative value in a determination that a person is domiciled in and is a resident of Kentucky:
    - a. Kentucky automobile registration;
    - b. Kentucky driver's license;
    - c. Registration as a Kentucky voter;
    - d. Long-term lease of at least twelve (12) consecutive months of non-collegiate housing; and
    - e. Continued presence in Kentucky during academic breaks.
  4. The absence of a fact contained in subsection (3) of this section shall have significant probative value in determining that a student is not domiciled in or is not a resident of Kentucky.

### Section 11. Effect of a Change in Circumstances on Residency Status

1. If a person becomes independent or if the residency status of a parent or parents of a dependent person changes, an institution shall reassess residency either upon a request by the student or a review initiated by the institution.
2. Upon transfer to a Kentucky institution, a student's residency status shall be assessed by the receiving institution.
3. A reconsideration of a determination of residency status for a dependent person shall be subject to the provisions for continuous enrollment, if applicable.

### Section 12. Student Responsibilities

1. A student shall report under the proper residency classification, which includes the following actions:
  - a. Raising a question concerning residency classification;
  - b. Making application for change of residency classification with the designated office or person at the institution; and
  - c. Notifying the designated office or person at the institution immediately upon a change in residency.
2. If a student fails to notify an institutional official of a change in residency, an institutional official may investigate and evaluate the student's residency status.
3.
  - a. If a student fails to provide, by the date specified by the institution, information required by an institution in a determination of residency status, the student shall be notified by the institution that the review has been canceled and that a determination has been made.
  - b. Notification shall be made by registered mail, return receipt requested.
  - c. Notification shall be made within ten (10) calendar days after the deadline for receipt of materials has passed.
4.
  - a. The formal hearing conducted by an institution and the final recommended order shall be a final administrative action with no appeal to the Council on Postsecondary Education.
  - b. A formal administrative hearing conducted by the Council on Postsecondary Education for residency determinations related to eligibility for the Academic Common Market and Regional Contract Programs shall be conducted pursuant to the provisions of KRS Chapter 13B and 13 KAR 2:070. The recommended

order issued by the President of the Council shall be a final administrative action.

5. A student shall not be entitled to appeal a determination of residency status if the determination made by an institution is because a student has failed to meet published deadlines for the submission of information as set forth in subsection (3) of this section. A student may request a review of a determination of residency status in a subsequent academic term.

### Section 13. Institutional Responsibilities

Each institution shall:

1. Provide for an administrative appeals process that includes a residency appeals officer to consider student appeals of an initial residency determination and which shall include a provision of fourteen (14) days for the student to appeal the residency appeals officer's determination;
2. Establish a residency review committee to consider appeals of residency determinations by the residency appeals officer. The residency review committee shall make a determination of student residency status and notify the student in writing within forty-five (45) days after receipt of the student appeal;
3. (Establish a formal hearing process as described in Section 14 of this administrative regulation; and
4. Establish written policies and procedures for administering the responsibilities established in subsections (1), (2), and (3) of this section and that are:
  - a. Approved by the institution's governing board;
  - b. Made available to all students; and
  - c. Filed with the council.

### Section 14. Formal Institutional Hearing

1. A student who appeals a determination of residency by a residency review committee shall be granted a formal hearing by an institution if the request is made by a student in writing within fourteen (14) calendar days after notification of a determination by a residency review committee.
2. If a request for a formal hearing is received, an institution shall appoint a hearing officer to conduct a formal hearing. The hearing officer shall:
  - a. Be a person not involved in determinations of residency at an institution except for formal hearings; and
  - b. Not be an employee in the same organizational unit as the residency appeals officer.
3. An institution shall have written procedures for the conduct of a formal hearing that have been adopted by the board of trustees or regents, as appropriate, and that provide for:
  - a. A hearing officer to make a recommendation on a residency appeal;
  - b. Guarantees of due process to a student that include:
    - i. The right of a student to be represented by legal counsel; and
    - ii. The right of a student to present information and to present testimony and information in support of a claim of Kentucky residency; and
  - c. A recommendation to be issued by the hearing officer.
4. An institution's formal hearing procedures shall be filed with the Council on Postsecondary Education and shall be available to a student requesting a formal hearing.

## Section 15. Cost of Formal Hearings

1. An institution shall pay the cost for all residency determinations including the cost of a formal hearing.
2. A student shall pay for the cost of all legal representation in support of the student's claim of residency.

Adopted effective April 5, 1991; Amended effective May 16, 1996; Amended effective June 16, 1997; Amended effective July 13, 1998; Amended effective June 7, 1999; Amended effective November 12, 2002; Amended effective April 2, 2010; Amended effective June 9, 2015.

## Residency Appeals Policy and Procedures

### 1. Basis for Residency Classification

The Commonwealth of Kentucky has established a process and corresponding criteria for the determination of residency classification for students seeking admission to, or enrolled in, public institutions of higher education. The Council on Postsecondary Education (hereinafter referred to as "CPE") has established Kentucky Administrative Regulation 13 KAR 2:045 (hereinafter referred to as "the Regulation") to be followed by all public institutions of higher education in the Commonwealth concerning residency classification. This Regulation can be found in the current Undergraduate Catalog and the current Graduate Catalog and copies are available upon request from the Office of Admissions, located in the Whitlock Building, Room 112 or by calling (859) 622-21-6 or 1-800-465-9191.

### 2. Institutional Administration of the Residency Policy

The Council on Postsecondary Education authorizes each institution to establish a procedure for the determination of residency classification based upon the Regulation.

#### 2.1 Office of Admissions

The Office of Admissions  
Whitlock Building, Room 112, CPO 54  
521 Lancaster Avenue  
Richmond, KY 40475-3154

The Office of Admissions at Eastern Kentucky University serves as the coordinating office for institutional implementation of the Regulation. Instructions for filing applications for reclassification and copies of the Regulation are available in this office. Also, Admissions staff members are available to answer questions regarding policy and procedures.

#### 2.2 Initial Classification

The initial determination of residency status is made by the University based upon the credentials submitted by an applicant for admission to the University in accordance with the Regulations.

#### 2.3 Appeal of Residency Status

Once an initial classification of residency is made by the Office of Admissions, it is the student's responsibility to initiate an appeal of such classification. Request for reclassification must be filed with the Dean of Students Office **no later than thirty (30) calendar days** after the first full day of classes of the fall or spring academic term for which reclassification is sought or not later than ten (10) calendar days after

the first day of class for the summer term. Requests for reclassification are to be made in affidavit form on the form available from the Office of Admissions or the Dean of Students Office. A student may apply only once during an academic term. A student classified as a non-resident will retain that status until a change is brought about by successful appeal. If an appeal results in a change of classification, the change will not be effective earlier than the semester during which the appeal is filed. If a student is initially classified non-resident but does not enroll the semester for which the student originally applied, the residency classification will be reassessed for subsequent semesters.

#### 2.4 Affidavit (Application for Reclassification)

Affidavits will not be accepted unless the form is fully completed, properly signed and notarized. In no case will a decision be granted without an affidavit and all required supporting documentation.

#### 2.5 Documentation

Because of the variety of factors related to establishing residency for tuition purposes, the number of documents required to complete an appeal may vary from case to case. In all cases, the University may require certification of authenticity of documents.

It is the appealing student's responsibility to provide sufficient documentation to clarify circumstances related to the appeal. In all cases, circumstances related to establishing domicile must be verifiable.

#### 2.6 Review of the Residency File by the Residency Appeals Officer

A Residency Appeals Officer designated by the University shall review the affidavit and documentation and notify the student, in writing, within fourteen (14) days of making a determination. Students who do not agree with the Residency Appeals Officer's determination may appeal his/her residency status to the University's Residency Review Committee within fourteen (14) days of the Residency Appeals Officer's determination.

### 3. University Residency Review Committee

Pursuant to the Regulation, Eastern Kentucky University has a Residency Review Committee (hereinafter referred to as the "Committee") to review and evaluate student affidavits for reclassification and to consider changes in the residency classification.

#### 3.1 Timely Appeal

The Student must notify the Residency Appeals Officer in writing, if he or she wishes his/her case to be reviewed by the Committee, within fourteen (14) calendar days after notification of the Residency Appeals Officer's determination. The Residency Appeals Officer shall immediately forward the request and the student's residency file to the Chair of the Committee.

#### 3.2 Committee Membership

The Residency Review Committee shall be comprised of three members: the Executive Director for Enrollment Management; a member of the Faculty-at-Large, who shall be appointed annually by the Faculty Senate; and a member of the student body, who shall be appointed by the Office of the Vice President for Student Affairs from a list of students recommended by the Student Association.

#### 3.3 Determination of the Committee

The Committee shall issue a written decision citing the section of the Regulation on which the decision is based. The Committee may vote to

defer a case for additional documentation, or the Committee may make a decision contingent upon conditions prescribed by the Committee. The Chair of the Committee will then determine when and whether contingencies are met.

### 3.4 Notification of Decision

The Committee shall make a determination of student residency status and notify the student, in writing, within forty-five (45) days after receipt of the student appeal. Decisions denying appeals are communicated to the student by certified mail, return receipt requested. In all cases where the Committee reaches a determination granting in-state residency status, copies of the letter of notification will be sent to the Office of Admissions, Student Accounting Services, the Registrar's Office, and Student Financial Assistance.

## 4. Request for Formal Hearing

Pursuant to the Regulation, the University shall provide a formal hearing in the event a student wishes to appeal the determination of the Residency Review Committee.

### 4.1 Timely Request

A student who wishes to appeal the determination of the Committee shall be granted a formal hearing by the University if the student notifies the Executive Director for Enrollment Management, Whitlock Building, Room 436, CPO 69, Richmond, KY 40475-3163 in writing, within fourteen (14) calendar days after notification of the Residency Review Committee's determination. The Executive Director for Enrollment Management shall immediately forward the request and the student's residency file to the Office of the President.

### 4.2 The Hearing Officer

Upon receipt of a request for a formal hearing, the University President shall appoint a Hearing Officer to conduct the hearing. The Hearing Officer shall not be a person involved in determinations of residency at a public institution of higher education in Kentucky (including the Kentucky Commonwealth Virtual University) and shall not be an employee of the same organizational unit as the Residency Appeals Officer.

### 4.3 Formal Hearing Procedures

The hearing shall be conducted in accordance with the following procedures:

#### 4.3.1. Notice of Hearing

**4.3.1.a.** The University shall conduct the hearing as soon as practicable and shall give notice of the hearing to the parties not less than twenty (20) days in advance of the date set for the hearing. A reasonable effort shall be made to schedule the hearing on a date that is convenient to all parties involved.

**4.3.1.b.** The hearing notice shall be served on all parties by certified mail, return receipt requested, to the last known addresses of the parties, or by personal service.

**4.3.1.c.** The notice shall be in plain language and shall include:

- the date, time and place of the hearing;
- the name, official title, and mailing addresses of the Hearing Officer;

- the names, official titles, mailing addresses, and, if available, telephone numbers of all parties involved in the hearing, including the counsel or representative of the University; and
- a statement advising the student of his/her right to legal counsel.

### 4.3.2. Hearing Procedure

**4.3.2.a.** The Hearing Officer shall conduct the hearing and all related proceedings in a manner which will promote the orderly and prompt conduct of the hearing.

**4.3.2.b.** To the extent necessary for the full disclosure of all relevant facts and issues, the Hearing Officer shall give all parties the opportunity to respond, present evidence and argument, conduct cross-examination, and submit rebuttal evidence.

**4.3.2.c.** Any party to the hearing may participate in person or be represented by counsel. A student shall pay for the cost of all legal representation in support of the student's claim or residency. Legal counsel for the student must file a notice of appearance with the Hearing Officer prior to the date of the hearing.

**4.3.2.d.** The Hearing Officer may conduct all or part of the hearing by telephone, television, or other electronic means, if each party to the hearing has an opportunity to hear, and if technically feasible, to see the entire proceeding as it occurs, and if each party agrees.

**4.3.2.e.** The hearing shall be open to the public unless specifically closed pursuant to a provision of law. If the hearing is conducted by telephone, television, or other electronic means, and is not closed, public access shall be satisfied by giving the public an opportunity, at reasonable times, to hear or inspect the University's records.

### 4.4 Findings of Fact; Evidence; Recording of Hearing; Burden of Proof

**4.4.1.** Findings of fact shall be based exclusively on the evidence on the record.

**4.4.2.** All testimony shall be made under oath or affirmation.

**4.4.3.** Objections to evidence presented may be made by any party and shall be noted in the record.

**4.4.4.** The University shall be responsible for having all testimony, motions and objections in a hearing accurately and completely recorded. Any person, upon request, may receive a copy of the recording or a copy of the transcript, if the hearing has been transcribed, at the discretion of the University, unless the hearing is closed by law. The University may prepare a transcript of a hearing or a portion of a hearing upon request but the party making the request shall be responsible for the transcription costs. The form of all requests and fees charged shall be consistent with KRS 61.870 to 61.884.

**4.4.5.** Unless otherwise provided by state or federal law, the student appealing the residency decision has the burden of proving the student's right to having his/her residency status changed. The student has the ultimate burden of proof of persuasion as to this issue to be shown by a preponderance of evidence in the record. Failure to meet the burden of proof is grounds for a recommended order from the Hearing Officer.

### 4.5 Prohibited Communications

**4.5.1.** The Hearing Officer shall not communicate off the record with any party to the hearing or any other person who has a direct or indirect

interest in the outcome of the hearing, concerning any substantive issue, while the hearing is pending.

## 4.6. Recommended Order

**4.6.1.** The Hearing Officer shall complete and submit to the University President, no later than sixty (60) days following receipt of the student's residency file, a written recommended order which shall include the Hearing Officer's findings of fact, conclusion of law, and recommended disposition of the hearing.

**4.6.2.** A copy of the Hearing Officer's recommended order shall also be sent to each party in the hearing. Each party shall have fifteen (15) days from the date the recommended order is mailed within which to file exceptions to the recommendations with the University President. The recommended order may be sent by regular mail to the last known address of the party.

## 4.7. Final Order

**4.7.1.** In making the final order, the University President shall consider the record including the recommended order and any exceptions filed by, or on behalf of, the student.

**4.7.2.** The University President may accept the recommended order of the Hearing Officer and adopt it as the University's final order, or he or she may reject or modify, in whole or in part, the recommended order, or he or she may send the matter, in whole or in part, back to the Hearing Officer for further proceedings as appropriate.

**4.7.3.** The final order shall be in writing. If the final order differs from the recommended order, it shall include separate statements of findings of fact and conclusions of law.

**4.7.4.** The University President shall render a final order within thirty (30) days after receipt of the recommended order unless the matter is sent back to the Hearing Officer for further proceedings.

**4.7.5.** A copy of the final order shall be transmitted to each party or to his/her attorney of record by certified mail, return receipt requested, sent to the last known address of the parties, or by personal service. A copy of the final order shall also be sent to the Office of Admissions, Student Accounting Services, the Registrar's Office, and Student Financial Assistance.

## 5. Records

All official files and materials relating to a student's appeal of an initial residency determination shall be returned to the Office of Admissions to be placed with the application for admissions at whatever point in the process the appeals procedure is terminated.

## Student Support and Services

- Division of Finance & Administration & Treasurer (p. 579)
- Other Student Services (p. 581)

## Division of Finance & Administration & Treasurer

The Division of Finance and Administration coordinates the following areas of University operations:

1. Accounting and Financial Services,
2. Budgeting & Financial Planning,
3. Business Services,
4. ECU Center for the Arts,
5. Facilities Management,
6. Human Resources,
7. Information Technology Services,
8. Parking & Transportation,
9. University Police & Public Safety,
10. Environmental Health & Safety,
11. Purchases & Stores,
12. Sustainability,
13. Student Accounting Services, and
14. University Card Services.

Additionally, the following contractual departments report to the University through the Division of Finance and Administration:

1. ECU Dining Services,
2. ECU Bookstore, and
3. University pouring rights.

Students may view the mission statement of each of the above areas by visiting the Division of Finance and Administration web page at <http://www.financialaffairs.eku.edu>.

## Financial Obligations of the Student

Any student or former student who is indebted to the University and who fails to make satisfactory settlement within a time limit prescribed is liable for administrative action. Students who are indebted to the University may not register at the University nor will their transcript or diploma be released until the debt is paid. Any student indebted to the University who cannot meet his or her financial obligations within the time limit prescribed is responsible for calling on the division of Student Accounting Services and explaining the reasons for failure to pay. Students who fail to pay their account balance in a timely manner may also be liable for additional collection costs incurred by the University in collecting the amount owed.

## Refund Policy

No refund can be made on certain class fees and optional fees as established by the Eastern Kentucky University Board of Regents. Students wishing to withdraw from courses must do so online via EKUDirect (on the ECU home page at [www.eku.edu](http://www.eku.edu) (<http://www.eku.edu>)). When a student officially withdraws from the University or from any course or courses for which hourly rates apply, tuition and fees will be adjusted in the following manner:

Time Period <sup>1</sup>	Refund
During add/drop period for any class (for full semester classes = 1st week)	100%
From end of 1st week through end of 2nd week of class	75%
From end of 2nd week through end of 3rd week of class	50%

From end of 3rd week through end of 4th week of class	25%
After the 4th week of class	0%

1

Partial semester courses vary in length and the percentage of refunds and the effective dates will be modified accordingly.

This policy applies to refundable fees only; non-refundable fees are not included. In no case shall a refund of rent be made to a person who remains a student but moves from University housing at his or her convenience.

## Financial Appeals

An appeals process exists for students who feel that individual circumstances warrant exceptions from published policy. Financial appeals may be submitted if a student had an unforeseeable and unavoidable situation during the semester the charges were incurred that prevented them from attending classes and completing the semester. All appeal letters should be submitted by the student in writing clearly stating the reason for the appeal.

Documentation should be attached to all appeal letters to validate the situation. Circumstances that do not qualify for financial appeal include pre-existing conditions, routine pregnancy, employment opportunities and financial hardship, including denial of financial aid. In most cases, any refund that is the result of an approved appeal will be returned to the source of the payment, the student, the financial aid lender, or a third party entity. Financial appeals should be submitted to the

Financial Appeals Committee  
Whitlock Building CPO 60  
521 Lancaster Avenue  
Richmond, KY 40475.

Any student whose appeal is denied by the initial Financial Appeals Committee may ask to have their appeal reviewed by a second, escalated Financial Appeals Committee.

## Barnes & Noble at ECU Bookstore

Powell Building  
Phone: (859) 622-2696  
Fax: (866) 504-8325  
[www.shopeku.com](http://www.shopeku.com) (<http://www.shopeku.com>)

Barnes & Noble is the University's partner in delivery of ECU BookSmart which provides free textbooks to all ECU undergraduate students. The Barnes & Noble at ECU Bookstore is located in the heart of campus on the Plaza Level of Powell Building (The Student Center). The Bookstore is the place for one-stop shopping for all ECU licensed merchandise, graduate textbooks, and much more. It offers a wide variety of products, services, and events including:

- Class supplies
- Trade books, gift items, greeting cards, diploma frames, nursing shop.
- Convenience items
- Adidas, Under Armour, Nike, Champion, Cutter & Buck, and much more.
- Computers and computer supplies

- Backpacks
- Barnes & Noble gift cards
- Book signings
- Graduation regalia
- Faculty receptions

The Barnes & Noble at ECU Bookstore works diligently with departments, faculty and staff to ensure that the course materials required for each class are readily available to students either through the BookSmart program for purchase by graduate students. Textbook adoptions are required from departments and faculty by these dates:

- March 1 For the upcoming **SUMMER** sessions
- April 1 For the upcoming **FALL** semester
- October 1 For the upcoming **SPRING** semester

Regular ECU Bookstore hours are:

Day	Hours
Monday-Thursday	7:45 a.m. - 6:00 p.m.
Friday	7:45 a.m. - 5:00 p.m.
Saturday	11:00 a.m. - 3:00 p.m.

## Card Services

Powell 08-E (Plaza Level)  
Phone: (859) 622-2179  
Fax: (859) 622-8089  
<https://cardservices.eku.edu/>

Card Services provides students with a variety of services related to their ECU student identification card, the Colonel Card. This identification card is used for meal plans, Colonel Cash, campus vending machines, and the ECU Bookstore. In addition, ECU has partnered with US Bank to add optional banking solutions.

Card Services is responsible for issuing a new or a replacement identification card and will assist with troubleshooting potential card issues experienced by students, faculty, and staff. Students, faculty, and staff may purchase meal plans and add funds to their card accounts in the Card Services Office.

The Colonel Card will allow students access to the following:

- Athletic events
- University Library facilities
- Campus Recreation
- University sponsored events
- Student Health Services

The Colonel Card has three different associated accounts:

- Colonel Cash – This is a prepaid account that can be used at all ECU Dining Services locations, the ECU Bookstore, campus vending machines, and a select number of participating off-campus merchants. This account will carry balances over from semester-to-semester.

- Meal Plans – EKU Dining Services has several different meal plans to accommodate any student's needs. Meal plans can be used at any EKU Dining Services location. Students under the residential requirement must select a meal plan meeting the residential meal plan requirement

All other students enrolled in nine (9) or more credit hours are required to participate, at a minimum, in the \$300 Dining Dollar program (refundable). Meal plans may be upgraded any time during the semester and downgraded only within the first two (2) weeks of the semester.

- Optional Flex - This is a prepaid account that can be used at any EKU Dining Services location. Please check with EKU Dining Services regarding terms and conditions associated with this account.

Students may purchase meal plans by logging into MyEKU or add funds to their accounts by logging into *EKU GET Funds*. Acceptable methods of payment for meal plans, Optional Flex, or Colonel Cash accounts are Visa and MasterCard. Meal plans, when selected on MyEKU, will be assessed to the student account.

Card Services follows the University holiday schedule and is open daily during the University's normal business hours:

Monday through Friday 8:00 a.m. – 4:30 p.m.

The Colonel Card is property of Eastern Kentucky University and is issued for convenience. It must be presented (or surrendered) upon request by authorized officials of the University. Any expenditure associated with the use of this card is the responsibility of the holder until it is reported lost/stolen. A fee will be charged for damage made to the identification card or if the card is lost or stolen. The loss of a card must be reported immediately to Card Services, Powell 08-E, (859) 622-2179.

### **EKU Dining Services**

Case Dining Hall, 101  
Phone: (859) 622-3691  
Fax: (859) 622-6226  
[www.ekudining.com](http://www.ekudining.com) (<http://www.ekudining.com>)

EKU Dining Services offers a variety of dining alternatives including fresh food options, an assortment of national-brand restaurants, catering, and athletic concessions. It is the goal of EKU Dining Services to provide high quality and satisfying dining experiences for the entire campus community.

Case Kitchen and Stratton Café offer freshly cooked dining options in a comforting atmosphere. Lower Case Food Court offers Chick-fil-A, Moe's Southwest Grill, Panda Express, P.O.D. (Provisions on Demand) Express, and Subway.

In other areas of campus, EKU Dining Services boasts a variety of dining options including Java City in the Crabbe Library; Einstein Bros. Bagels in the Weaver Building offering gourmet coffees, bakery items, as well as grab & go salads and sandwiches; as well as Starbucks and The Corner, offering Zen Sushi and the Colonel's Grill, located in the Powell Student Center.

EKU Dining Services provides full-service catering and a dedicated catering staff for both on- and off-campus events. A special Student Catering Guide is available to accommodate the dynamic requests and requirements of students.

## **Other Student Services**

### **The International Alumni Association**

Alumni Center at Blanton House  
Phone: (859) 622-1260  
Fax: (859) 622-6620  
[www.alumni.eku.edu](http://www.alumni.eku.edu) (<http://www.alumni.eku.edu>)

The Eastern Kentucky University International Alumni Association serves as a link between the University and its alumni by maintaining records, fostering communication, and sponsoring programs and activities designed to enhance this relationship.

All Eastern Kentucky University degree recipients and former students with 25 or more credit hours are considered alumni of EKU. The International Alumni Association is served by a board of 30 alumni volunteers, representing the diversity of our alumni constituency, who meet three times annually. Their work includes selection of the Alumni Awards, Alumni Scholarship recipients and general committee work.

The Alumni Association coordinates multiple gatherings across the nation to encourage alumni and friends of EKU to come together. The greatest of these is Homecoming and Reunion Weekend held annually in the fall. This celebration brings alumni back to campus to reconnect with their classmates and learn more about University improvements and initiatives.

The International Alumni Association encourages fellow alumni to advocate in a positive way for EKU both online and among friends, attend EKU sponsored events, give back to the university financially, and volunteer your time by serving on an advisory board, referring a student, or assisting with an event. We encourage alumni from the past to complete these four fundamental actions to impact the future.

### **Colonel's Cupboard**

212 Commonwealth Hall  
Phone: (859) 622-3855  
Email: [food.pantry@eku.edu](mailto:food.pantry@eku.edu)  
[www.communityservice.eku.edu/cupboard](http://www.communityservice.eku.edu/cupboard) (<http://www.communityservice.eku.edu/cupboard/>)

### **Who We Are**

The Colonel's Cupboard is an initiative of the Office of Student Life & First-Year Experience, opened in 2014. The Cupboard was started to fight the growing problem of food insecurity on campuses across the nation. Today, we strive to help students succeed by providing them with their basic needs of food, clothing, and toiletry items. We are entirely run off of donations from EKU students, faculty, and staff, as well as community members. All enrolled students at the university are eligible to use the Cupboard.

### **What We Do**

- Provide food, clothing, and toiletry items to any currently enrolled student who has a need.
- Connect students with other resources, on and off campus, to help with other needs.
- Provide educational materials about food insecurity, healthy eating, etc.

- Host volunteers, both groups and individuals, who want to give back on campus.
- Donate overstocked goods to other local food pantries in need.

### How it Works

- Complete the form at [communityservice.eku.edu/cupboard](http://communityservice.eku.edu/cupboard) (<http://www.communityservice.eku.edu/cupboard/>) or email [food.pantry@eku.edu](mailto:food.pantry@eku.edu) to make an appointment.
- Stop by the Colonel's Cupboard in Commonwealth Hall during open hours to "Shop" for your needs, or pick up a prepackaged food box at one of our partner locations

## EKU Police

EKU Police Department and 911 Center  
701 Vickers Drive  
Phone: (859) 622-1111  
Fax: (859) 622-947  
[www.police.eku.edu](http://www.police.eku.edu) (<http://www.police.eku.edu>)

The EKU Police Department is a fully accredited law enforcement agency available 24-hours a day, 7 days a week. For emergencies from a campus phone, dial 911, or (859) 622-1919 from any phone. For non-emergencies please call (859) 622-1111. We recommend you program these numbers into your phone as favorites. You should call EKU Police to report all crimes and for any matters requiring a police, fire, medical, or hazardous materials response.

The mission of the Eastern Kentucky University Police Department is to enhance the quality of life by providing a safe and secure environment through professional service to the community. The success of our mission depends on this partnership utilizing a community policing philosophy. The Department places a high priority on honesty and integrity and values the need for effective and open communication with the community we serve. We value our employees and are committed to their professional development.

EKU Police provide 24-hour patrols of the EKU campus, including buildings, parking lots, residence halls, and grounds. EKU Police officers have county-wide law enforcement authority, although primary jurisdiction encompasses all University property and all roads and streets adjacent to the campus. The EKU Police also have the authority to investigate crimes committed on University property located anywhere in the state.

The EKU Police Department includes 24 sworn police officers and seven dispatchers. EKU Police maintain high visibility on campus with motor vehicles, bicycles, and foot patrol. The EKU Police Department maintains a Daily Crime & Fire Log available to the public at <https://crimelog.eku.edu/> (<https://crimelog.eku.edu/>) Crimes occurring on EKU properties and fires occurring in student housing are listed here in an ongoing effort to help you make informed decisions regarding your safety and security.

The Eastern Kentucky University Police Department has an excellent working relationship with state, local, and federal law enforcement agencies, and other emergency providers. Visit the Department web page at <https://police.eku.edu/> to find links to the Daily Crime Log, the Annual Security and Fire Safety Report, Crime Prevention tips, and much more. You can also connect with EKU Police on Twitter, Facebook, and Instagram.

## Parking & Transportation Services

Commonwealth Hall, Room 212  
Phone: (859) 622-7275  
[www.parking.eku.edu](http://www.parking.eku.edu)

Eastern Kentucky University Parking & Transportation Services provides parking and transportation services in support of the University's mission, by providing quality customer service and proper management of parking and transportation resources. This mission is accomplished by enforcing applicable parking rules and regulations, providing safe and efficient transportation services, conveying a positive attitude, and requiring the highest standards of personal and professional conduct.

Parking Services provides parking information, registers vehicles for the campus community and visitors, coordinates parking for special events and enforces parking rules and regulations. Transportation Services provides day and evening transit services and motor pool/fleet services.

See the Parking and Transportation website ([www.parking.eku.edu](http://www.parking.eku.edu) (<https://www.parking.eku.edu>)) for additional parking and transportation information including parking regulations, transit schedules, and hours of operation.

### Student Automobiles

In order to facilitate parking for all students, faculty, and staff, Eastern Kentucky University requires the registration of all motor vehicles utilizing campus parking facilities. Vehicle registration information can be obtained by contacting Parking Services at (859) 622-7275 or by visiting <https://eku.nupark.com/portal> (<https://eku.nupark.com/portal/>). During the registration period, prior to the first day of classes, students registering for classes may park in any legal, non-reserved parking space in all areas, except employee parking lots (Zone E) which are marked by yellow signs.

After the commencement of classes, residential hall lots (Zone R), which are marked by blue signs, are restricted to residence hall permits 24-hours per day, seven days a week. Grand Campus Lot, which is marked by purple signs, is restricted to Grand Campus permits 24-hours per day, seven days a week. Enforcement of employee and commuter parking (Zone C) regulations begins at 2:00 a.m. Monday-Friday. Commuter permits are also valid from 4:30 p.m. to 7:00 p.m. in employee (Zone E) parking lots. The Jones Lot is an exception to this rule and is reserved for employees only until 9:00 p.m. Evening parking for unregistered vehicles without permits is available in the Alumni Coliseum Lot from 4:30 p.m. to 2:00 a.m., Monday through Friday, and all-day Saturday and Sunday. Visitors may register for temporary parking by visiting <https://eku.nupark.com/portal> (<https://eku.nupark.com/portal/>). Visitors are permitted to park in the Alumni Coliseum Lot with a valid visitor permit.

## Speech-Language-Hearing Clinic

Wallace Building 245  
Phone: (859) 622-4444  
[www.slhclinic.eku.edu](http://www.slhclinic.eku.edu) (<http://www.slhclinic.eku.edu>)

The Communication Sciences and Disorders Department offers free therapy services to students, faculty, staff, and members of the community at the Speech-Language-Hearing Clinic in Wallace 245.

Diagnostic and clinical treatment services provided by the Clinic include the following:

1. Screening for speech, language, swallowing, and hearing problems.
2. Assessment and treatment of articulation disorders, phonological delays, delayed or disordered language, stuttering, voice disorders including laryngectomy, swallowing, speech and language problems resulting from stroke or head injury, language disorders related to learning disability, and speech and language problems of individuals in areas of exceptionality such as mental handicap, developmental delay, cerebral palsy, cleft palate, hearing impairment, autism spectrum disorder, and emotional/behavioral disorder.
3. Accent modification for speakers of English as a second language and those desiring Standard English skills.

Anyone interested in the above services should contact the Clinic Office Associate at (859) 622-4444, Wallace 245, or visit the Clinic website: [www.slhclinic.eku.edu](http://www.slhclinic.eku.edu) (<http://www.slhclinic.eku.edu>)

## Student Publications

Eastern Kentucky University provides a variety of laboratory experiences through student publications. The Eastern Progress Media Network has been established to provide professional involvement in the activities of The Eastern Progress, the University's student online and print publication. Academic and support units coordinate the institutional support of student publications but do not govern the content. The courts have consistently held that where a tradition of student decision making exists in student publications, those publications are afforded the same Constitutional First Amendment protection as other publications. Concomitant with those rights, go certain responsibilities, which also accrue to the student publications. Accordingly, the responsibility for the content of the publications is that of the student editors and writers and not Eastern Kentucky University or its Board of Regents.

The **Eastern Progress Media Network** is a learning lab for students interested in media, marketing and public relations. The EPMN produces a newspaper and online multimedia content and is the official student publication of the University. All students are encouraged to take advantage of the journalism and advertising training it offers. Since its establishment in 1922, The Progress has been rated as an All American Newspaper by Associated Collegiate Press and a Medalist paper by Columbia Scholastic Press Association. The Progress and its student journalists have won many state and national awards, including countless Kentucky Press Association honors, national Pacemakers and Gold Crown awards. In January 2019, student journalists at the Eastern Progress Media Network and other state campus publications were recognized as KPA's Most Valuable Member. Reach the Progress online at [www.easternprogress.com](http://www.easternprogress.com) (<http://www.easternprogress.com>).

**Aurora** is a magazine of student writings published by its student staff to encourage interest in literary activity. Aurora accepts poems, one-act plays, short stories, prose sketches, and essays from any Eastern student. Editions are published in the fall (online by the ENG 420 Stylistics, Editing, Publishing class) and spring (hard copy). Cash prizes are awarded for the best works (fiction and poetry) at the time of the spring publication.

## Technology and Related Resources

IT Service Desk, Keen Johnson Basement  
Phone: (859) 622-3000  
Website: [it.eku.edu](http://it.eku.edu) (<http://it.eku.edu>)

Password & Accounts are sent by mail or communicated through the Slate portal to all students when admitted to EKU.

- Students receive a nine-digit EKU ID number which is your unique ID for all official records. This ID starts with "900" or "901".
- Each student also receives an EKU username. The username is based on your first name\_last name (e.g., John Smith = john\_smith12). Your username and password provide secure access to Wi-Fi, campus computers, and other electronic resources. Your single sign-on (SSO) for services like myEKU and Blackboard and email is YourUsername@mymail.eku.edu.
- Reset your password at the website <https://it.eku.edu/password> (<https://it.eku.edu/password/>)
- Reset your two-factor authentication (2FA) settings at the website [it.eku.edu/2FA](https://it.eku.edu/2FA)
- myMail (student email account) is provided through Microsoft. Students may retain their EKU email address upon graduation from EKU: [it.eku.edu@mymail](mailto:it.eku.edu@mymail) (<https://it.eku.edu/mymail/>)
- Microsoft Office 365 is free for all registered students and is available to download through their official myMail account. <https://it.eku.edu/support/office-365-education> (<https://it.eku.edu/support/office-365-education/>)
- Google Workspace (formerly G Suite) and Office 365 for Education are available to all employees and students while employed or while a current student. <https://it.eku.edu/collaboration> (<https://it.eku.edu/collaboration/>)

IT Geeks are EKU students' first point of contact for all service issues, questions, troubleshooting and consultation. Call 859-622-GEEK (4335) or email [geeks@eku.edu](mailto:geeks@eku.edu). The IT Geeks also offer electronic equipment checkouts (laptops, calculators, cameras, etc.). The Geek Innovation Center is free for EKU students and includes a makerspace, podcast room, VR, gaming, video lab, and Colonel Oasis wellness space. Visit the website [geeks.eku.edu](http://geeks.eku.edu)

Computer Labs are located in the Crabbe Library Atrium (Room 207) and in other locations across campus. For a list of all computer labs, visit the website [it.eku.edu/computer-labs-eku-campus](http://it.eku.edu/computer-labs-eku-campus) (<https://it.eku.edu/computer-labs-eku-campus/>)

The IT Website offers more than 300+ support articles about EKU technology. The IT Search is keyword specific. Visit [it.eku.edu](http://it.eku.edu) to view the support articles and find out more about IT at EKU.

Login to EKU The EKU homepage has a menu for easy login access to myEKU, Blackboard, Student Email, and Degree Works.

myEKU (formerly EKU Direct) provides access to a wide range of data for students from admission through graduation. Students register for classes, obtain parking permits, check grades and more with myEKU. Log in to myEKU at [my.eku.edu](https://my.eku.edu). (<https://my.eku.edu>)

Blackboard is EKU's course management system. Students are automatically enrolled in Blackboard upon registration. Course sites do not appear for students until the instructor opens them. Blackboard is used for all online courses and many on-campus courses. Learn more at [it.eku.edu/blackboard](http://it.eku.edu/blackboard), and log in at [learn.eku.edu](http://learn.eku.edu).

Degree Works helps students plan an academic roadmap to graduation. Degree Works, along with your advisor, will ensure you are on the right track to graduate. View Degree Works information at [registrar.eku.edu/DegreeWorks](http://registrar.eku.edu/DegreeWorks). (<https://registrar.eku.edu/DegreeWorks/>)

ResNet is the EKU residential network and provides high-speed wired and wireless internet access in all residence halls. Wired connections are recommended for devices that support that option. To connect to the

campus wireless (Wi-Fi) network, visit [it.eku.edu/getconnected](https://it.eku.edu/getconnected) (<https://it.eku.edu/getconnected/>). To connect wireless devices that do not support network login, visit [it.eku.edu/byod](https://it.eku.edu/byod). (Note: Students should connect to `eku_secure5GHz` instead of the guest Wi-Fi network. For connection support articles, visit [it.eku.edu/support/wireless-network](https://it.eku.edu/support/wireless-network) (<https://it.eku.edu/support/wireless-network/>.) To view all articles related to wireless at [it.eku.edu](https://it.eku.edu), type “wireless” into the IT website search bar.

Peer-to-peer software is not permitted on the EKU network. Downloading copyrighted materials is illegal and prohibited.

Acceptable Use of Information Technology Resources: [it.eku.edu/codeofethics](https://it.eku.edu/codeofethics/). (<https://it.eku.edu/codeofethics/>)

Phishing and Spam: IT @ EKU will NEVER request passwords or other personal information via email. Messages requesting such information are fraudulent. Forward all suspicious messages to [spam@eku.edu](mailto:spam@eku.edu). In the unlikely event the message is legitimate, we will tell you.

## Emergency Management & Security

### Adams House

424 Lancaster Ave

Division of Public Safety

Phone: (859) 622-1111

<http://emergency.eku.edu/>

### Emergency Notifications:

Rave Mobile Safety is EKU's primary mass notification system. The University has implemented a multi-modal emergency notification system to inform the community about incidents and emergencies affecting campus. Realizing that message redundancy is a necessity, EKU has seven primary notification methods available for the community. Any one, or a combination, of these alert methods may be used depending on the nature and severity of the event. More information about Situational Awareness, Emergency Notifications, and Timely Warnings can be found at the following web page: <https://emergency.eku.edu/situational-awareness-%E2%80%93-emergency-notifications-and-timely-warnings> (<https://emergency.eku.edu/situational-awareness-%E2%80%93-emergency-notifications-and-timely-warnings/>)

### Systems Include:

- Sirens - Audible sirens can be broadcast over four loudspeakers strategically placed on campus. This system can be activated by the EKU Division of Public Safety as well as the Madison County Emergency Management Agency for weather and community emergency notifications.
- Text Messaging - An opt-out notification where a text message can be received on your mobile phone. EKU and Rave do not charge for this service; however, your carrier may have standard text messaging charges. (Note: Students should periodically check their mobile phone numbers when their numbers change and make corrections as necessary.)
- Voice Messaging - An opt-out notification where a voice message can be received on your mobile or home phone. (Note: Students should periodically check their mobile phone numbers when their numbers change and make corrections as necessary.)
- Email Messaging - This notification provides an email message about an event. Current students, faculty, and staff are automatically registered to receive notifications on their EKU email account and cannot opt-out of this type of notification. You can opt-in to

receive emails on other email accounts. Community members are encouraged to check their email frequently throughout the day to be sure they see any message sent by this alert method.

- RSS Feeds - A message can be posted on the Emergency Management, Police Department, or University web pages.
- Network Messaging - A visual notification can be made across computers connected to the EKU network. When an alert is sent out, a pop-up box appears on your screen. No personal information is gathered or transmitted with the use of this alerting system.
- Social Media - EKU can use Twitter and Facebook to send notifications to the community. These social systems require the user to check to receive any messages posted. Follow @EKUEmergency on Twitter and like EKU Emergency Management on Facebook.

Review your contact information in Rave Mobile Safety

### Rave Mobile Safety:

Current Students, Faculty, and Staff are Already Registered:

- Log on to MyEKU
- <https://experience.elluciancloud.com/eku/>
- Use your Single Sign On (SSO) authentication.
- Under the EKU Links Card, click on the Rave Emergency Notifications link.
- Under My Account you can check and edit your Mobile Phones, your Voice Only Line Contacts, and your Email. Click the Add Buttons to add additional Mobile Phones, Voice Only Line Contacts, and Emails.
- If you are affiliated with certain groups, like Model Lab School or the EKU Regional Campuses, you can join them to receive notifications that they send out.
- Click the Groups tab, select the desired group(s) from the Official Groups list by clicking Action, and selecting Join at the Group Status.
- You can leave any group by selecting the group(s) and at the Group Status and clicking Leave.
- Email messages are automatically sent to all current EKU email addresses. You cannot opt-out of receiving messages on your EKU email account.
- Texts and voice calls are also automatically entered into the system and you can opt-out of these notifications if you desire. Please give careful consideration to opting-out, however, because once you opt-out, you will no longer receive important emergency information intended to help you to stay safe. (Note: Students should check their mobile phone numbers at the beginning of every semester and make changes as their circumstances change.)
- EKU and Rave do not charge for text service; however, your carrier may have standard text messaging charges.

Other Community Members:

- While current EKU employees, and registered EKU students, are automatically enrolled in Rave Mobile Safety – Emergency Notifications. Other community members and visitors may SMS (Text) to opt-in. Be informed. Text “EKUAlerts” to 67283 (MRAVE), 226787 (CAMPUS), 78015, or 77295.
- Once registered, you can opt out of text messages at any time. Texting “STOP” to any of the short codes will cancel alert messages. Texting “START” to any of the short codes will resume/reinstate the alert messages. STOP and START are not case sensitive.

- Rave does not charge subscribers to send or receive text messages. Standard or other messaging charges may apply depending upon your wireless carrier plan and subscription details.
- Text messages are sent on an as-needed basis. This service is provided per the Terms of Use and Privacy Policy which can be found at the following web pages:
  - <https://www.getrave.com/help/Terms.action> (<https://www.getrave.com/help/Terms.action/>)
  - <https://www.getrave.com/help/Privacy.action> (<https://www.getrave.com/help/Privacy.action/>)
- Report a Tip – Allows you to report tips on a variety of topics and gives you an option of attaching a photo or video. The tips are automatically routed to the appropriate office(s).
- Health & Safety Toolbox – Has options to contact the ECU Police, the Counselling Center, Student Health Services, and Center for Student Accessibility.
- Campus Maps – Provides access to a Parking Map, Enhanced Shelter In Place Buildings, and Evacuation Assembly Areas.
- Emergency Plans – Contains the University's planned response to emergency situations. This is the content of the University Emergency Action Plan and provides important information about what you can do to protect yourself if an emergency does occur.
- Support Resources – Has options to contact University Housing, Facilities Management, Libraries, and Student Affairs.
- Manage Profile – Under the About/Preferences button, users can manage their profile and add information to help emergency responders. This information is only available to and used by the ECU Division of Public Safety for emergency purposes. It allows individuals to volunteer information to help us keep you safe. Items the user can volunteer include Allergies, Medications, On-Campus Primary Address/Location, Secondary or Additional Addresses/ Locations (for individuals whose work or studies take them to multiple locations on campus), Permanent Address, Additional Phone Numbers, Emergency Contact Name and Phone Number. The more information volunteered, the more effectively we can find you and help you should the need arise.

### Living Safely at ECU

Life can be unpredictable. The Division of Facilities Management & Safety asks that all our community members download the ECU S.A.F.E. App.

For maximum utility, you must turn on location services for this app so that your location can be checked and sent to Public Safety, or to one of your Contacts. Privacy is your concern, and you decide whether to enable your location services. Enabling this feature, on your mobile phone, for this app, helps people get to you when you need assistance.

The free personal safety app is available for download on both the Apple and Android platforms at

Apple: <https://apps.apple.com/us/app/s-a-f-e-safety-app-for-eku/id1550124036> (<https://apps.apple.com/us/app/s-a-f-e-safety-app-for-eku/id1550124036/>) and

Android: <https://play.google.com/store/apps/details?id=com.cutcom.apparmor.eku> (<http://catalogs.eku.edu>)

Apple: <https://apps.apple.com/us/app/s-a-f-e-safety-app-for-eku/id1550124036/>

The app puts various safety services at the fingertips of users:

- Push Notifications – Allows users to receive emergency notifications and timely warnings sent from Public Safety, via ECU Alerts, using our email alert method. (Note: Community members, who are not ECU employees or ECU students, can SMS to Opt-In for emergency notifications sent from Public Safety, using our text alert method. Be informed. Text "EKUAlerts" to 67283 (MRAVE), 226787 (CAMPUS), 78015, or 77295.)
- ECU News Feed – Displays recent tweets from @eku.
- Emergency HELP – Contains buttons to Call 911 if you are off the ECU Richmond Campus, Call ECU Police if you are on the Richmond Campus, chat with ECU Police via text for the deaf or hard of hearing or when it is not safe for you to speak. Emergency Call checks your physical location and determines that if you are inside the campus geofence, your call goes to ECU Police, and if you are outside the campus geofence, your call goes to 911 for help.
- Safety Escort/Friend Walk – Has options to contact the ECU Police, to request a safety escort on the Richmond Campus, or allows you to send your location in real-time to a friend, so they can watch you as you travel to your destination.
- Mobile BlueLight ALARM – Contains a button that simultaneously sends your location to ECU Police and makes a phone call to ECU Police. ECU Police can receive your location in real-time on their Dashboard and they can speak with you on the phone.
- WorkAlone – Allows you to start a session with either a personal contact, anywhere, or with Public Safety if you are on the Richmond Campus. This feature will automatically check in on you while working or studying alone and can automatically trigger a call to your personal contact or Public Safety if you fail to check-in at the allotted time, or if you press the emergency button.

We are proud of our strong partnership with the Student Government Association as we collaborate to provide safety resources, such as this app, that benefits our entire campus community. Colonels care for one another and this app provides a platform for our community to look out for one another by reporting issues, communicating directly with the ECU Police Department, providing tips, watching friends virtually walk, and other safety items.

## Office of Student Success and Student Affairs

Dr. Tanlee Wasson

Vice President of Student Success, Student Affairs and Institutional Effectiveness

Powell Building 110

(859) 622-8947

[www.studentaffairs.eku.edu](http://www.studentaffairs.eku.edu) (<http://www.studentaffairs.eku.edu>)

The Office of Student Success and Student Affairs is dedicated to providing quality services, leadership experiences, and learning opportunities designed to help students achieve their goals while enhancing personal development and well-being. To ensure that students gain the most from their college experience, Student Success offers a wealth of academic support resources, student services and social enrichment opportunities to foster exploration, discovery, growth and achievement. By fully engaging in all aspects of your education, you'll receive an immeasurable return on your investment of time and dedication throughout your life.

- Bratzke Student-Athlete Academic Success Center (p. 586)
- Campus Recreation (p. 586)
- Center for Student Accessibility (p. 587)
- Counseling Center (p. 587)

- Dean of Students (p. 587)
- ECU Housing and Residence Life (p. 588)
- Financial Aid (p. 588)
- Libraries (p. 590)
- Meditation Chapel (p. 590)
- NOVA Program (TRiO Student Support Services) (p. 591)
- Office of Admissions (p. 591)
- Office of Military and Veterans Affairs (p. 591)
- Office of Multicultural Student Affairs (p. 592)
- Student Conduct and Community Standards (p. 592)
- Student Health Services (p. 593)
- Student Life and First-Year Experience (p. 593)

## Bratzke Student-Athlete Academic Success Center

Ms. Monika Banbel, Director  
 Alumni Coliseum 103  
 (859) 622-1359  
[www.saasc.eku.edu](http://www.saasc.eku.edu) (<http://www.saasc.eku.edu>)

The Bratzke Student-Athlete Academic Success Center provides an academic support program and a multifaceted academic resource for all student-athletes competing on NCAA varsity teams on ECU's campus. The Center provides opportunities and services to enhance the student-athlete's academic performance, as well as monitoring progress to ensure all student-athletes meet their academic eligibility requirements as determined by the NCAA, OVC, and ECU.

Bratzke Center programs include academic advising, academic monitoring, mentoring, supervised study hall, tutoring, and personal counseling, as well as referrals to other academic support programs on campus. Each student athlete's academic progress is monitored closely each semester to facilitate graduating with the highest grade point average possible, while maintaining NCAA eligibility throughout their collegiate athletic career.

The Bratzke Center also sponsors a Life Skills program designed to promote student-athlete growth in five commitment areas: academics, athletics, personal development, service, and career development. Throughout the year the Center plans and coordinates outreach activities for student-athletes in support of the local community and Eastern Kentucky.

## Campus Recreation

Matt Roan, Vice President for Athletics and Recreation  
 Fitness and Wellness Center, SRC 105  
 Phone: (859) 622-6751  
 Fax: (859) 622-6754  
[www.campusrec.eku.edu](http://www.campusrec.eku.edu) (<http://www.campusrec.eku.edu>)

The Department of Campus Recreation provides a variety of diverse facilities and recreational opportunities to the university community. The department promotes wellness for students, faculty and staff by encouraging the development of lifelong skills and positive attitudes through health education, fitness programs, adventure programs, and competitive sports.

Campus Recreation oversees the operation of the **Fitness & Wellness Center**. The Fitness and Wellness Center is a state-of-art facility which includes:

- Full line of weight and fitness equipment
- Locker Rooms
- Climbing Wall
- Bouldering Wall
- Group Exercise Room
- Multipurpose gymnasiums
- Indoor Track
- Student Lounge with computers
- Full Swing Golf Simulator

Coming in Fall 2019, the brand new state-of-the-art recreation center will include (in addition to the list above):

- An aquatic center
- Sauna
- Outdoor activity space
- 2 additional courts
- 2 additional group fitness studios

## Fitness Program

The Fitness Program offers a variety of group fitness classes each week and are taught by trained, motivated and friendly instructors. All fitness levels are welcome and each group fitness class is offered at no charge. Examples of group fitness classes are yoga, Pilates, group cycling, Zumba, and much more.

For those who need a more personal touch, we offer very affordable personal training by certified personal trainers. Personal training is a great way to attain one-on-one instruction incorporating exercise plans, goal-setting and health education.

## Adventure Programs

Adventure Programs offers a wide variety of trips and workshops each semester. Previous trips have included: hiking and camping, backpacking, kayaking/canoeing, spelunking, white water rafting, climbing, canyoneering. The climbing and bouldering walls are an exciting and engaging alternative to traditional exercise. In addition, Adventure Programs provides an extensive amount of outdoor equipment so you may embark on your own adventures. Examples of outdoor rental equipment are tents, mountain bikes, kayaks, cook stoves, canoes and much more.

## Competitive Sports

Competitive Sports have been a campus tradition at ECU for over 50 years. Students play with their friends or organizations and compete against fellow Eastern students. Examples of activities offered are flag-football, soccer, volleyball, corn hole, dodge ball, golf, basketball, and much, much more. There are also numerous individual and dual events. For the more competitive athlete, we also supervise student lead Sport Clubs. Clubs compete on a regional and national level against other universities and colleges.

## Health Promotion

Health Promotion is a peer education program geared towards empowering students with knowledge and facts concerning health

issues. Health Promotion presents information on alcohol, obesity, sex, drug abuse, eating disorders, tobacco, and much more. The aim is not to enforce ideas but to assist students in making better informed decisions by providing students with the proper tools, knowledge, and self-worth.

## Employment

EKU Campus Recreation is one of the largest student employers on campus. We have a variety of opportunities to join our dedicated and friendly staff! All open positions will be posted on [jobs.eku.edu](http://jobs.eku.edu) (<http://jobs.eku.edu>). Here are some entry level positions we employ, and most have opportunities for advancement:

- Facility Attendant
- Group Exercise Instructor
- Marketing Assistant
- Intramural Referee
- Health Promotion Peer Educator
- Climbing Wall Attendant
- Personal Trainer
- Graphic Designer
- Lifeguard

## Center for Student Accessibility

Dr. Kelly Cogar, Senior Director  
Whitlock Building 361, CPO 66  
Phone: (859) 622-2933  
[www.accessibility.eku.edu](http://www.accessibility.eku.edu) (<http://www.accessibility.eku.edu>)

The Center for Student Accessibility (CSA) assists students by coordinating campus and program accessibility as well as providing support in the attainment of educational goals. CSA is located in the Whitlock Building, Room 361. Appointments are made by calling (859) 622-2933 or by email at [accessibility@eku.edu](mailto:accessibility@eku.edu).

Students requesting services, including deaf and hard of hearing students, are required to submit a completed application for services and current health-related documentation. Applications, documentation guidelines, and additional information is available at the CSA website. Services are individualized and may include academic adjustments that do not impede the academic integrity of the course, digital books, equipment loans, interpreters, note-taking software, testing accommodations and other services.

CSA offers **Project Success**, a comprehensive program for students diagnosed with specific learning disabilities, Attention Deficit Disorder and other health conditions to support their academic success at EKU. Project Success provides participating students with intensive academic coaching and tutoring support.

## ADA/504 Coordinator

The ADA/504 Coordinator serves the University by hearing individual ADA cases including appeals for course substitutions, waivers and other accessibility-related cases and as a member of the ADA Appeals Committee. Appointments with the ADA/504 Coordinator are made by contacting Dr. John Dixon, [John.Dixon@eku.edu](mailto:John.Dixon@eku.edu)

## Counseling Center

Whitlock Building 571  
Phone: (859) 622-1303

Fax: (859) 622-1305  
<https://counselingcenter.eku.edu/>

The University Counseling Center offers services designed to promote the success of students in achieving their academic, social and personal goals. The Counseling Center staff consists of licensed clinicians who provide counseling both individually and in groups. Counseling is offered on a time-limited basis. Referral is provided when the need for counseling services is beyond the role and scope of the Counseling Center. Psychiatric services are available on a limited basis for students receiving counseling in the Counseling Center when medication is indicated. Counseling relationships are considered confidential as delineated by the American Psychological Association (APA) Code of Ethics and, to the extent permitted by law, federal and Kentucky state laws.

## Counseling Services

Counseling is viewed as another form of learning while in college. Typical college student concerns that may result in counseling are: adjustment to college, interpersonal conflicts, dealing with loss, test anxiety, time management, stress, academic pressures, anxiety, depression, motivation, making health decisions, traumatic experiences, eating concerns and choice of a major. Students can make appointments by calling (859) 622-1303 or dropping by the Counseling Center.

## Rapid-Access Services

The EKU Counseling Center offers many services that are available on a drop-in basis, including: workshops, biofeedback, guided meditation, and drop-in groups. Be sure to check out our website: [counselingcenter.eku.edu](http://counselingcenter.eku.edu) (<http://counselingcenter.eku.edu>) for the semester schedule of services.

## QPR Suicide Prevention Training

The EKU Counseling Center offers training in suicide prevention and only takes an hour! Participants learn: warning signs that someone might be considering suicide, how to have a caring conversation with someone about whom they are concerned, how to persuade that person to get help, and where to refer them for that assistance. Everyone can be a partner in suicide prevention.

## Services for Faculty and Staff

The Counseling Center staff also provides consultation to the University community on referral and how to be most helpful to the distressed student. When a faculty member wishes to refer a student for immediate help, it is recommended that the faculty member call and speak with a staff member for consultation to discuss the appropriate action. A downloadable document called "The Decision Making Tree" offers step-by-step guidelines on how to respond to students in distress at the Counseling Center Web site at: <http://www.counseling.eku.edu/>

## Dean of Students

Dr. Lara Vance, Dean  
Whitlock Building 538  
Phone: (859) 622-2402  
Fax: (859) 622-3047  
[www.dos.eku.edu](http://www.dos.eku.edu) (<http://www.dos.eku.edu>)

The Dean of Students office promotes student success and development across all offices and serves as the primary contact point for students.

The Dean collaborates with various departments, stays up-to-date on available student resources, and responds to student crisis.

## EKU Housing and Residence Life

Karen Peavler, Interim Executive Director  
Whitlock Building 552  
Phone: (859) 622-1515  
Fax: (859) 622-8384  
www.housing.eku.edu (<http://www.housing.eku.edu>)

EKU Housing & Residence Life fosters the development, engagement, and success of our residential community by providing an inclusive home that enhances the collegiate experience. Campus living offers opportunities that will help you excel academically, develop leadership skills and connect with life-long friends. You will meet students from all walks of life gathered together as part of a vibrant, close-knit community.

We offer Living Learning Communities (LLCs), which consist of students with similar majors and interests who live on the same floor/floors of a residence hall. Live and learn with others who share your goals, career interests and life passions!

All single, full-time undergraduate students under the age of 21 prior to the first day of classes, having fewer than 60 credit hours, or having lived in a residence hall less than four academic semesters (fall/spring) are required to live in University residence hall facilities. Exception is made for students residing with their parent(s) at their parent's principle residence within 50 miles of the Richmond campus. Students living with parents must submit a verification form which is available through the housing office or at [www.housing.eku.edu](http://www.housing.eku.edu) (<http://www.housing.eku.edu>). Students may request exemption to the residency requirement under specific circumstances to the Executive Director.

Each residence hall is equipped with the following services that come as part of the basic room rental rate:

### Cable Television

All major network and major cable stations are offered with any cable-ready television at no cost. Enhanced services and premium channels are available at an additional charge. For additional information, contact the College Cable Services, Inc. at 800-472-2054 ext. 222.

### Phone Services

Basic phone service is provided for all residents. Each room is equipped with one phone line. Residents are asked to provide their own touch tone phone. In order to dial long distance, students may use any calling card. Enhanced phone features are available at an additional charge. For additional information on enhanced services or long distance, contact EKU Telecommunication Services at (859) 622-1903.

### Laundry Rooms

Several washers and dryers are located in every residence hall. All the machines are operated by coin or Colonel Dollars. All laundry machines are **free** for on campus residents.

### ResNet

All rooms come equipped with two high-speed internet connections. Wireless network access is also available. For more information about

equipping your computer for Internet access, visit [www.resnet.eku.edu](http://www.resnet.eku.edu) (<http://www.resnet.eku.edu>).

## Study Rooms

Within most residence halls are open, quiet rooms in which to study.

## Vending

All residence halls are serviced with a variety of drink and snack vending machines. The machines are coin operated, and many accept credit card processing as well.

Social, educational, and service-learning programs are offered and organized by University Housing staff in all of our residence halls. These programs range from movie nights on the residence hall floors to volunteering for Habitat for Humanity. Most often, the RAs on each floor host social programming so that the residents can get to know each other and enjoy their housing experience even more. Many of the University Housing programs are open to all campus residents.

EKU Housing & Residence Life has traditional residence halls, enhanced traditional halls (each room has built-in wardrobes and a sink), suite style halls and apartment style halls.

#### Features include:

- Large recreation rooms
- Indoor gas fireplaces
- Study rooms
- Computer labs
- Kitchen and laundry areas
- Indoor / Outdoor programming space
- Large and small classrooms space
- Leadership opportunities

Visit [housing.eku.edu](http://housing.eku.edu) (<http://housing.eku.edu>) for rates, floor plans and more details.

## Financial Aid

Whitlock Building 251  
Phone: (859) 622-2361  
Fax: (859) 622-2019  
Email: [finaid@eku.edu](mailto:finaid@eku.edu)

Financial assistance is available to help students offset the cost of their college education. There are five types of financial aid: grants, loans, employment, entitlements, and scholarships. The grants, loans, and federal work study programs are need-based. To determine how much money and for which programs the student qualifies, he/she must complete the Free Application for Federal Student Aid each year.

Entitlements include but are not limited to resources from the Veterans Administration and Vocational Rehabilitation. Scholarships are awarded from the University as well as outside sources. For information regarding entitlements, students should contact the Division of Student Financial Assistance at (859) 622-2361. This office can guide the student to the proper source depending on the type of entitlement or scholarship the student is interested in pursuing.

For scholarship information, students should contact the Scholarship Office in the Whitlock Building, Room 346 (859) 622-8032.

## Entitlements

### Veterans Program

The Veterans Program at Eastern Kentucky University is approved by the Kentucky Approving Agency for Veterans Education for the education of veterans and their eligible dependents. Students concerned with veterans training should have, at the time of registration, a certificate of eligibility. This is secured from the regional office of the Veterans Administration. The University is responsible for the completion of certain Veterans Administration forms and the other necessary information about students who receive this aid.

If you have completed courses while in the armed forces, ask the Registrar about the possibility of receiving credit for such courses.

### Veterans Administration Benefits

War orphans, widows, children and wives of deceased and disabled veterans should contact the Veterans Administration, 600 Federal Place, Louisville, Kentucky (phone: 1-800-827-1000). Application forms are available in the EKV Office of Veterans Affairs. For information concerning tutorial assistance or refresher courses, contact the Office of Veterans Affairs at Eastern Kentucky University in the Whitlock Building, Room 442. The telephone number is (859) 622-7838.

## Vocational Rehabilitation (OVR)

EKU supports the efforts of OVR to serve eligible individuals with disabilities. The Kentucky Office of Vocational Rehabilitation provides vocational rehabilitation services to eligible individuals with disabilities. Individuals receiving OVR services may also contact the EKV Center For Student Accessibility for academic accommodation. For more information about eligibility criteria call the Office of Vocational Rehabilitation toll free at 1-800-372-7172 or (502) 564-7172, or visit the website at <https://kcc.ky.gov/>.

## Fellowships

African-American students who have been accepted to the graduate school and are

1. eligible for in-state resident fee status and
2. registered as part-time students may apply for a \$500.00 African American Graduate Fellowship through the graduate office.

Awards are available for the fall and spring semesters and can be applied toward tuition, books/material and incidentals.

## Graduate Assistantships

Graduate assistantships are positions given to the most outstanding students. Duties may include laboratory supervision, teaching, and research related tasks. Stipends are competitive and assistantships supported through the Graduate School include a partial tuition waiver of six graduate hours per semester for a full-time appointment. Additional assistantships are available through the Office of Student Housing and other academic and administrative units and many of these also provide a partial tuition waiver.

Graduate Assistants (GAs) are appointed by the individual departments of each college and subject to the approval of the Graduate School. Questions regarding application for appointment should be directed to the graduate coordinators of that department.

Graduate Assistants must be enrolled in a graduate degree program and must be enrolled in a minimum of 9 hours of graduate coursework applicable to their degree. Students in their final semester of graduate study who have applied for graduation may hold an assistantship with less than full-time enrollment. Students admitted to the Graduate School on Probationary Admission are typically not eligible for Graduate Assistantships.

Graduate assistants on part-time appointments are permitted to work up to 10 hours per week in other on-campus employment subject to approval by the Graduate School. Appointments are limited to no more than four academic terms (summers excluded). Exceptions to this may be considered for students enrolled in graduate program that exceed 36 hours.

## Dr. Rodney Gross Diversity Scholarship

The Dr. Rodney Gross Diversity Scholarship provides financial assistance to high achieving students from all segments of society: Alaskan, Native, Asian, Native Hawaiian or other Pacific Islander, Hispanic, or Latino. Applications may be obtained by contacting the Scholarship Office by phone (859) 622-8032 or via the web at [www.scholarships.eku.edu](http://www.scholarships.eku.edu) (<http://www.scholarships.eku.edu>).

## Student Loans

The **Federal Perkins Loan** is a 5 percent simple interest loan awarded to exceptionally needy students. This loan is made to degree seeking postbaccalaureate and graduate students. Rank I students are not eligible. Repayment begins nine months after the student ceases to be enrolled on at least a half time basis. There are certain occupations which allow a student to cancel a percentage of the money they borrow from this program. Contact the Loan Accounts Office in the Whitlock Building, Room 216, for more information regarding the cancellation and deferment options. All first time Federal Perkins Loan borrowers must be enrolled for thirty (30) days before their first Perkins disbursement can be released.

The **Federal Direct Unsubsidized Loan Program** is a program available to students who are enrolled at least half time. For Graduate students, half time is considered 4.5 credit hours or greater per semester. This loan is for degree seeking graduate students. Rank 1 students are not eligible. Graduate students may borrow up to \$20,500 per academic year. Keep in mind that the Federal Direct Unsubsidized Loan cannot exceed the student's cost of attendance minus all other student financial assistance.<sup>1</sup> Each annual loan limit is for one award year (12 month period; i.e. fall, spring, summer). To apply for a Federal Direct Unsubsidized Loan, all students must complete a Free Application for Federal Student Aid available at [www.fafsa.gov](http://www.fafsa.gov) (<http://www.fafsa.gov>). The Office of Student Financial Assistance will process the loan and electronically submit the information to the U.S. Department of Education. In order to receive a Federal Direct Unsubsidized Loan, all students must complete both entrance counseling and sign the master promissory note at [www.studentloans.gov](http://www.studentloans.gov) (<http://www.studentloans.gov>).

<sup>1</sup>

**Each annual loan limit is for one award year (12 month period; i.e., fall, spring, and summer).**

The **Student Aid Society (Emergency Loan)** program is designed to provide emergency short-term loans to students. It must be repaid. Students may borrow a small amount of money on a personal note at a legal rate of interest for a one month period. Money is made available

through contributions of the University, alumni, private organizations and many individual friends of the University.

You must be enrolled as a full time student, have a 2.0 ("C") overall grade point average, a means of repayment, and must not have a past due balance. All students are eligible to apply for these short-term loans regardless if they are receiving other forms of financial aid. An application form obtained from the Loan Accounts Office in the Whitlock Building, room 210 must be completed. Allow at least two days for processing.

The loan must be repaid within four weeks, and the student is charged an interest rate of 2 percent. Students who have delinquent loans will have their grades sealed in the Registrar and will not be allowed to register for the next semester. Delinquent loans will be collected through a collection agency. Any additional expenses incurred in the collection of the note will be added to the student's repayment.

## Student Employment

Eastern Kentucky University offers its students two employment programs. One is the federal work study program which provides part-time jobs to students who have financial need as determined by the Application for Federal Student Aid. This program is federally funded. The other is the ECU institutional work program. Eastern Kentucky University provides funds to employ students who want to work on-campus, but do not qualify for the federal work study.

Both of these programs employ students on a part-time basis, and students are paid every two weeks for the hours they have worked. Their job schedule is built around their class schedule. A variety of jobs are available including typing, filing, farm work, food service, resident hall assistants, tutorial work, as well as community service jobs. Contact Human Resources for more information at the Jones Building, Room 2013, between 8:00 am – 4:30 pm (M-F) or by phone at 859-622-5094, option 1.

## Libraries

Julie George, Dean of Libraries

Library 202A

(859) 622-1778

[library.eku.edu](http://library.eku.edu) (<http://library.eku.edu>)

[facebook.com/ekulibraries](https://www.facebook.com/ekulibraries) ([http://facebook.com/ekulibraries/](https://www.facebook.com/ekulibraries/))

@ekulibraries

Eastern Kentucky University Libraries includes the John Grant Crabbe Main Library, centrally located on University Drive, and two branch locations: the Elizabeth K. Baker Music Library in the Foster Building and the Rogow Business Library and Academic Commons in the Business and Technology Complex. ECU Libraries provides help, study spaces, collections, and technology designed around the academic needs of ECU's students. ECU Libraries supports ECU regional campus and online students as well and provides a full range of services equivalent to those offered at the Main Library for these distance learners.

The Main Library offers a variety of study spaces, ranging from a large collaborative area on the first floor to the Silent Study Zone on the very top floor. Noise levels are also monitored on the Quiet fourth floor to ensure plenty of silent space for individual study. In addition to spaces designed for quiet and group study, an outdoor area is available on the Noel Reading Porch, adjacent to the Library Plaza. Refreshments are available in the Java City Library Café or the vending machines on the first floor. To learn more about ECU Libraries' spaces or to make a reservation, visit [library.eku.edu/reserve-rooms](http://library.eku.edu/reserve-rooms) (<http://library.eku.edu/reserve-rooms/>).

The Main Library is open late during the fall and spring semesters and offers 24 hour study space and extended hours at the end of fall and spring.

The Main Library also includes the Learning Resources Center in support of the College of Education; the Law Library; the Noel Studio for Academic Creativity; The Faculty Center for Teaching and Learning and Special Collections and Archives. ECU Libraries collects resources to best serve students, faculty, and staff. To search the online catalog and discover the collections of libraries worldwide, visit [library.eku.edu](http://library.eku.edu) (<http://library.eku.edu>); even if ECU Libraries does not own the item you need, library staff can get it for you when you need it.

Technology is available throughout the Main Library and branches. The Main Library includes a large computer lab and computers throughout the building, a color printer, a cloud printer, fax machine, and a 3D printer available for student use. Visit [library.eku.edu/technology-showcase](http://library.eku.edu/technology-showcase) (<http://library.eku.edu/technology-showcase/>) to explore the emerging technologies ECU Libraries faculty and staff are currently collecting.

There are many ways to get help from librarians. Virtual reference services are available online or in person and research assistance is available whether you are an online student, located at a regional campus, or taking classes at the Richmond campus. Students are invited to visit one of our Help Desks, call (859) 622-6594, text (859) 903-0848, e-mail [reference.library@eku.edu](mailto:reference.library@eku.edu), tweet @ekulibaskus, or chat with us and also check out our frequently asked questions at [libanswers.eku.edu](http://libanswers.eku.edu) (<http://libanswers.eku.edu>).

## Meditation Chapel

University Chaplain

Phone: (859) 622-1723

[www.studentaffairs.eku.edu/chapel/](http://www.studentaffairs.eku.edu/chapel/) (<http://www.studentaffairs.eku.edu/chapel/>)

The Chapel of Meditation is the realization of a dream begun in 1968 when the Eastern Kentucky University Alumni Association adopted the Century Fun Project to finance a non-denominational chapel. The chapel stands as a testimonial of the love and devotion of the alumni, faculty, students, and friends, a fit to commemorate the 100th anniversary of higher education on the Eastern Kentucky University campus.

The chapel is non-sectarian and is open to students, faculty, staff, alumni, and friends of the University for meditation, prayer, and spiritual reflection. The chapel is also used for several other events such as:

- Weddings
- Memorial services
- Sorority and fraternity events
- Religious organization events and services
- Academic department meetings
- Honor Society events
- Athletic events

The University Chaplain's office is located in the basement of the chapel. The Chaplain coordinates the various activities of the chapel and is available to perform weddings. The Chaplain also attends to students, staff and faculty with questions about spiritual matters or spirituality. Besides providing a peaceful and serene setting for prayer and meditation, the chapel is used to house various student organization meetings and services, weddings, and annual memorial services.

## NOVA Program (TRiO Student Support Services)

Ms. Sierrah Anderson, Director  
 Turley House 2  
 Phone: (859) 622-1047  
 Fax: (859) 622-1074  
[www.nova.eku.edu](http://www.nova.eku.edu) (<http://www.nova.eku.edu>)

The NOVA Program is a federal TRiO Student Support Services grant project committed to fostering the intellectual, personal, and professional growth of first-generation and low-income students from Orientation to Graduation.

NOVA's retention model is comprehensive in design, providing targeted services designed to meet each student's individual needs.

Services include:

- Academic Advising
- Career Counseling
- Classroom Instruction
- Consulting
- Financial Aid and Financial Literacy
- Graduate School Preparation
- Personal Counseling
- Service Learning
- Living Learning Community
- Peer Mentoring
- Personal Counseling
- Registered Student Organization
- Service Learning Experience
- Scholarship Opportunities
- Supplemental Grant Aid Opportunities
- Tutoring Services
- Workshops...and much more!

Students who are interested in joining NOVA may apply online at [www.nova.eku.edu](http://www.nova.eku.edu) (<http://www.nova.eku.edu>) or stop by the NOVA office to obtain an application. For more information, please call (859) 622-1047 between the hours of 8:00-4:30, Monday-Friday.

## Office of Admissions

Whitlock 112  
 Phone: (859) 622-2106

The Office of Admissions is responsible for recruitment and admission of qualified undergraduate students to EKU. This office is also responsible for the processing of applications for new as well as readmitted students and international students for undergraduate programs. Students who have questions regarding their residency status may address their inquiry to the Office of Admissions ([admissions@eku.edu](mailto:admissions@eku.edu)).

## Office of Military and Veterans Affairs

Ms. Barbara Kent, Director  
 Powell Student Center 137

Phone: (859) 622-2345  
 Fax: (859) 622-5076  
[www.va.eku.edu](http://www.va.eku.edu) (<http://www.va.eku.edu>)

The Office of Military and Veterans Affairs serves student veterans and military students by assisting with admissions, obtaining VA benefits and credit for military training, and serving as an advocate for veterans' issues throughout the campus community.

To utilize VA education benefits and to obtain a Certificate of Eligibility, eligible veterans and military students student veterans or eligible dependents will need to apply directly to the Veterans Administration online at [www.vets.gov](http://www.vets.gov) (<http://www.vets.gov>). Upon receipt of the certificate, please bring, mail, or fax (859-622-5076) a copy to the Office of Military and Veterans Affairs located at Powell Student Center, Room 137. Additionally, a Course Enrollment Form must be submitted online each semester for which benefits will be used, at [www.va.eku.edu/course](http://www.va.eku.edu/course) (<http://www.va.eku.edu/course/>).

Covered individuals (defined by the VA as any individual who is entitled to educational assistance under Chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post-9/11 GI Bill<sup>®</sup> benefits) may attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a Certificate of Eligibility (COE) for entitlement to educational assistance under chapter 31 or 33 (A "Statement of Benefits" obtained from the Department of Veterans Affairs' VA) website – eBenefits, or a VA Form 28-1905 form for chapter 31 authorization purposes can substitute for a COE) and ending on the earlier of the following dates:

1. The date on which payment from VA is made to the institution.
2. 90 days after the date the institution certified tuition and fees following the receipt of the COE.

The University will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds because of the inability to meet his or her financial obligations to the institution due to the delayed disbursement of funding from VA under chapter 31 or 33. If any late fees do appear, they will not be charged to the covered individual until after the 90-day period referenced above.

The Monthly Housing Allowance is calculated based upon the location of the campus where a student attends the majority of their classes, based upon Section 107 (FGIB). A "campus" may include internships, externships, training, practicums, etc. Students enrolled in 100% online programs will receive a reduced MHA amount, based upon their enrollment status. Hybrid courses must be certified at the on-campus rate, per VA regulations. All veterans and dependents who are eligible for benefits under the federal Post-9/11 Veterans Educational Assistance Act of 2008 (38 U.S.C. Section 3301 et seq.), or any other federal law authorizing educational benefits for veterans or dependents, will receive in-state tuition and fees.

Veterans needing assistance in obtaining a copy of their Joint Service Transcript or CCAF transcript should email [ekuveteransaffairs@eku.edu](mailto:ekuveteransaffairs@eku.edu) or call 859-622-2345.

## VA Regulations for Aviation Courses

Students using GI Bill<sup>®</sup> benefits to fund an aviation course must complete each flight lab within 19 weeks of initiation of the first flight event; failure to do so will result in the student being assigned a grade of NC (No Credit). Students using GI Bill<sup>®</sup> benefits must repay to the

VA the cost (including a portion of stipends for living expenses) related to any course in which a grade of NC is earned. Important - All student participants receiving Veterans Administration benefits have 19 calendar weeks from the date of the first flight event to complete an Aviation flight lab. GI Bill<sup>®</sup> is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <http://www.benefits.va.gov/gibill> (<http://www.benefits.va.gov/gibill/>).

## Aviation Flight Hours & Costs/Fees

A complete listing of aviation related fees for the current academic year is published on the EKU Aviation Flight Fees website (<http://aviation.eku.edu/aviation-flight-fees>), and are included in materials provided by the flight instructors. Additionally, all VA funded flight students receive this information from the EKU Office of Military and Veteran Affairs during their enrollment certification process. Students should verify through their regional Department of Veterans Affairs processing office if they have questions regarding their eligibility to use VA resources to complete the requirements of the EKU Aviation program.

## Kentucky National Guard Tuition Award Program

Active members of the Kentucky National Guard can utilize the Kentucky National Guard Tuition Award Program if they meet all eligibility criteria with the National Guard. Members must maintain all minimum standards, be eligible for all positive personnel actions, and have completed basic training or its equivalent. Eligible members will be awarded up to in-state tuition for full or part-time study at any Kentucky public college while funds are available. Members must apply to utilize the Kentucky National Guard Tuition Award Program each semester. The deadline to apply for the Summer and Fall semesters is April 1, and the deadline to apply for the Winter and Spring semesters is October 1. The application is available online at <https://ky.ngb.army.mil/tuitionstudent> (<https://ky.ngb.army.mil/tuitionstudent/>). For additional information, members can contact the Boone National Guard at (502) 607-1039.

## Survivors' and Dependents' Educational Assistance

DEA (Chapter 35) provides education and training opportunities to eligible dependents and survivors of certain veterans. For more information on DEA eligibility visit [www.vets.gov](http://www.vets.gov) (<http://www.vets.gov>).

## Children of Kentucky War Veterans

If you are the child of a Kentucky War Veteran, you may also be entitled to a tuition waiver in addition to your DEA benefits. Under the provisions of KRS 164.505, 164.507, and 164.515, children of Kentuckians who were killed in military action or who were permanently and totally disabled in wartime military services are eligible for this waiver. For additional information contact the Kentucky Department of Veterans Affairs, Tuition Waiver Coordinator at (502) 595-4447.

## Office of Multicultural Student Affairs

Liliana Gomez de Coss, Director  
13 Powell Building  
Phone: (859) 622-4373

Fax: (859) 622-6997  
[www.omsa.eku.edu/](http://www.omsa.eku.edu/) (<http://www.omsa.eku.edu/>)

The Office of Multicultural Student Affairs (OMSA) seeks to bring issues of cultural diversity to the forefront of campus conversation through educational programs and services. OMSA serves all students as they question personal and collective notions of race, gender, economic status, language, nationality, ethnicity, religion, sexual orientation, age, exceptionality and culture. OMSA encourages the utilization of campus resources, participation in campus life, understanding and respecting cultural differences, and encouraging tolerance and inclusiveness.

OMSA is actively engaged in collaborative efforts with other departments and academic areas on campus and provides co-curriculum learning experiences. OMSA also focuses on helping students from under-represented groups feel welcomed and supported so that cultural barriers are minimized and to help all students become more culturally competent to prepare them to enter an increasingly diverse workforce.

The center promotes life-long learning and global citizenship by providing programs, workshops, diversity trainings, study groups, panel discussions and events on cultural awareness, sensitivity and competence.

Located within the Powell Student Center, The Office of Multicultural Student Affairs is actively engaged in collaborative efforts with other departments and academic areas on campus including African/African-American Studies, Appalachian Studies, Campus Ministries, International Education, and Women and Gender Studies. The center also supports the efforts of various Eastern Kentucky University student organizations such as African /African American Studies Group, the Alphabet Lounge Student Group, B.S.U. (Black Student Union), Christian, ECU Capoeira Club, Eastern Kentucky University Gospel Ensemble, Feminists for Change, International Student Association, L.S.A. (Latino Student Association), M.A.R. (Men Against Rape), M.C.C. (Minority Collegiate Connection and Collegiate Black), Men of Color Mentorship Program, M.S.A. (Muslim Student Association), National Pan-Hellenic Council (N.P.H.C.), OWLS (Older, Wiser, Learners), Pride Alliance, Saudi Student Association, and S.I.S.T.A.

## Student Conduct and Community Standards

Whitlock 347  
Phone: (859) 622-1500

The Office of Student Conduct and Community Standards believes Eastern Kentucky University is a community of shared academic values, foremost of which is a strong commitment to intellectual honesty, honorable conduct, and respect for others. In order to meet these values, students at Eastern Kentucky University are expected to adhere to the highest standards of academic integrity. When becoming a part of the University community, the student enjoys social, cultural, and educational opportunities. The student also assumes the role of a citizen of the community and agrees to abide by the regulations and standards of conduct of the University community. The Office of Student Conduct and Community Standards provides a fair and impartial student conduct system for students, faculty and staff of Eastern Kentucky University.

The Office of Conduct and Community Standards will:

- Provide information to all students relating to the General Regulations for Student Behavior,

- Adjudicate all reports of alleged violations of the General Regulations for Student Behavior and the Policy for Academic Integrity in a consistent manner,
- Facilitate due process rights set forth by the University Handbook for Students, and
- Ensure fair and impartial hearings.

## Student Health Services

Rowlett 103  
 Phone: (859) 622-1761  
 Fax: (859) 622-1767  
[www.healthservices.eku.edu](http://www.healthservices.eku.edu) (<http://www.healthservices.eku.edu>)

The mission of Student Health Services at Eastern Kentucky University is to provide our students with the best quality acute ambulatory medical care in a compassionate environment, while providing education on healthy lifestyles from which our students can benefit for the rest of their lives.

Student Health Services has three primary goals: first, to address any acute medical condition that threatens health, interferes with function, reduces performance, and serves as an obstacle to learning and personal growth; second, to educate our student body on healthy lifestyle choices that promote wellness and reduce the chances of disease—the preventive approach; third, to serve as a source of information and access to community based assistance programs. Services provided at the Health Center include:

- Outpatient acute medical care
- Allergy shots
- Basic laboratory tests
- Family planning clinic
- Certain immunizations
- X-Ray requests
- Tuberculosis skin testing
- Health education
- Pregnancy testing
- AIDS education/testing referral

To make an appointment to see a provider, please go to the SHS website and click on the icon at the bottom left corner of the home page: “Schedule Online Appointment.”

A variety of free pamphlets, booklets, and other materials are available at the SHS. Students may utilize the computer terminal with Internet access in the SHS lobby to look up health related topics of interest.

## Student Life and First-Year Experience

Loni Yost, Director  
 Powell 128  
 Phone: (859) 622-3855  
[www.studentlife.eku.edu](http://www.studentlife.eku.edu) (<http://www.studentlife.eku.edu>)

The Office of Student Life & First-Year Experience (SL&FYE) at Eastern Kentucky University is dedicated to making sure every student has the opportunity to get involved and receive valuable experiences outside of the classroom. SL&FYE provides numerous services and programs for ECU students including Community Service, Colonel’s Cupboard,

Fraternity & Sorority Life, Leadership, Registered Student Organizations (RSOs), and Student Activities. SL&FYE also provides educational opportunities to assist students in their holistic development.

The first step to getting involved is visiting our website: [www.studentlife.eku.edu](http://www.studentlife.eku.edu) (<http://www.studentlife.eku.edu>).

## First-Year Experience

First-Year Experience (FYE) serves to help you connect to ECU inside and outside the classroom, and empower you with experiences and resources to make your first year a powerful, engaging experience. We strive to build all FYE programming on these three pillars:

- **Excite** your Colonel spirit by embracing ECU traditions and embarking on your individual “Eastern Experience.”
- **Exchange** dialogue, ideas and perspectives with faculty, staff and peers to connect with the greater ECU community.
- **Excel** inside and outside the classroom by establishing positive habits that will help make you a successful Colonel at ECU and beyond.

Our cornerstone FYE program, Big E Welcome, will allow you to build friendships and connections with other first-year students, equip yourself with skills to excel in the classroom, and truly welcome you into the ECU experience! Your Colonel Crew Leader (a current ECU student) will lead you through the festivities and share the weekend with you.

## Community Service and Colonel’s Cupboard

From disaster relief to blood drives, ECU students are changing the world one project at a time. Whether serving out of state on an Alternative Break trip or right here on campus, our service projects offer you the opportunity to make new friends, build your network, and grow as an individual. Our projects fit perfectly into a wide variety of majors, minors, and concentrations to provide offerings that fit everyone’s interests.

The Colonel’s Cupboard is an on-campus food pantry that assists ECU students who may be experiencing food insecurity. We also offer toiletry items and clothing items through the Clothing Bank and Closet TransForm housed within the Colonel’s Cupboard.

## Fraternity & Sorority Life

ECU is home to a vibrant fraternity and sorority community comprised of nearly 30 chapters and four governing councils:

- Interfraternity Council (IFC),
- Multicultural Greek Council
- (MGC), National Pan-Hellenic Council (NPHC), and
- Panhellenic Council (NPC).

Visit [greeklife.eku.edu](http://greeklife.eku.edu) (<http://greeklife.eku.edu>) to learn more about the recruitment process and these values-based organizations focusing on scholarship, service, leadership, and life.

- **Scholarship** – Each chapter has scholastic standards members are required to meet. Additionally, chapters implement academic success plans including study hours, incentives, and much more.
- **Service** – Greeks regularly dedicate their time, talent, and treasure to bettering the world in which we live. This is accomplished through philanthropy and community service efforts.

- **Leadership** –The fraternity and sorority community give members many opportunities to lead within the chapters and in the community.
- **Life** – Membership is a lifelong commitment. Fraternity and sorority members value brotherhood/sisterhood and being together for support and fellowship.

## Leadership

SL&FYE is dedicated to providing leadership programs which cultivate your personal leadership talents to help you be successful during your time at EKU and beyond. Our leadership programs include workshops, retreats, our annual LEAD EKU conference, I AM EKU, certificates, and more!

## Parent & Family Programs

The EKU Parent & Family Network serves to empower EKU parents, family, and friends with resources, timely and important information, and programs to support the success of their Colonel. The network assists in helping families stay connected and informed on the EKU community. More information can be found at [www.familyprograms.eku.edu](http://www.familyprograms.eku.edu) (<http://www.familyprograms.eku.edu>).

## Student Activities

SL&FYE hosts dozens of events each semester aimed at educating, entertaining, and meeting the needs of EKU students. We also have many programs in which we collaborate with various departments across campus to enhance the out-of-classroom experience. Check out upcoming events at [studentlife.eku.edu](http://studentlife.eku.edu) (<http://studentlife.eku.edu>).

## Student Organizations

SL&FYE is home to a variety of Registered Student Organizations (RSO) that EKU students are welcome to get involved with at any time! RSOs at EKU include a group of 6 or more current EKU students who have formulated an organization for a common purpose. Student organization information can be found at [www.studentlife.eku.edu/student-organizations](http://www.studentlife.eku.edu/student-organizations) (<http://www.studentlife.eku.edu/student-organizations/>).

## General Academic Information

### The Office of Graduate Education and Research

Dr. Ryan Baggett, Dean  
Whitlock Building 310  
(859) 622-1744  
[gradschool.eku.edu](http://gradschool.eku.edu) (<http://gradschool.eku.edu>)

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- Grades (p. 601)
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## Academic Information

### General Information

This section of the Graduate Catalog outlines the University's policies governing graduate programs. These policies are designed to assure academic integrity and the quality of graduate degrees attained through Eastern Kentucky University. All graduate students are expected to be familiar with these policies and to abide by them throughout their program of study at EKU.

Attendance in the Graduate School at Eastern Kentucky University is not a right. It is a privilege which may be withdrawn by the University or any area of graduate study if it is deemed necessary by the Office of Graduate Education and Research in order to safeguard the University's standards.

### Catalog Applicability

Students who are continuously enrolled in a graduate program will be governed by the catalog in force during the school year in which they were officially admitted to a graduate program. Graduate students who discontinue their enrollment for a period longer than 24 months must apply for re-entry to the Graduate School and be accepted for reinstatement by the graduate program. Students who are readmitted under these circumstances will be governed by the catalog in force at the time of re-entry.

Any currently active student may elect to comply with the catalog currently in force. Exceptions to this policy must be approved by the Office of Graduate Education and Research.

### Graduate Student Learning Outcomes

The Graduate School has adopted a core set of Graduate Student Learning Outcomes common to all graduate programs offered at EKU. While individual courses might not incorporate all of these, programs are expected to demonstrate that they are contained in a graduate student's program of study.

When students graduate from EKU Graduate Programs, they will be informed, critical and creative thinkers who communicate effectively.

*Informed* thinkers demonstrate mastery of the significant ideas of, and skills and abilities demanded by, their discipline.

- SLO 1: Graduate students are able to explain, discuss, and apply clearly and accurately the key concepts and central theories, and demonstrate expertise appropriate to the discipline.

*Critical and creative thinkers* raise vital questions and problems with a clear and appropriate methodology; gather and assess relevant information in ways that distill accurate and appropriate meaning from abstract ideas; analyze assumptions through alternative systems of thought; and generate new knowledge or creative expressions through the self-reflective synthesis of problems, information, evaluation and analysis.

- SLO 2: Graduate students are able to formulate and express important/essential questions and issues related to the discipline with clarity and accuracy, and appropriate depth and breadth.
- SLO 3: Graduate students are able to identify, collect, analyze, and evaluate relevant information to understand essential questions and issues and to advance knowledge in the discipline.

- SLO 4: Graduate students are able to identify, analyze, and evaluate underlying assumptions of arguments, abstract ideas, and alternative perspectives and theories.
- SLO 5: Graduate students are able to generate new knowledge, application, or creative expressions through the self reflective synthesis of information, evaluation, and analysis of critical questions or issues/problems related to their discipline.

*Effective communicators* illustrate and successfully defend their point of view, information, analysis, and conclusions, using oral, visual, and written methods, in ways that demonstrate clearly and logically the appropriateness of their conclusions and the implications thereof.

- SLO 6: Graduate students are able to communicate clearly and logically using oral, written, and/or artistic forms.

## Class Attendance

Students must be registered in a class in order to attend and participate. Individuals not registered are prohibited from doing so.

Research shows that students who regularly attend class are more likely to succeed. EKU students are responsible for course work covered during all class periods, including the first class meeting. Each instructor will record absences and deal with them in a manner consistent with departmental policy for that course. Since attendance policies vary among departments and for courses within departments, students must be familiar with the policy printed on the course syllabus.

If a student presents the instructor with an adequate and documented reason for an absence, the instructor normally will give the student an opportunity to make up the work missed, if this is feasible. Adequate reasons involve circumstances beyond the student's control, such as personal illness, critical illness, or death in the immediate family, or participation in an approved University activity. No absence of any nature will be construed as relieving the student from responsibility for the timely completion of all work assigned by the instructor. Initiating the request to make up class work is the student's responsibility.

### First Day of Class Attendance

This process is designed to ensure clear reinforcement of the message that class attendance at EKU is important. All faculty (undergraduate and graduate, online and all other modes of delivery) are required by the University to drop a student for being absent (or not participating online) on the first day of class/first week of class (as scheduled by the Registrar's Office). Students who know they will be absent should contact their instructor or the academic department office **prior to the 1st class meeting** to explain their absence and request that the instructor not drop them from the class.

Students are responsible for monitoring their class schedule and should never assume that missing the first day of class will automatically result in removal from that class. A student who never attends a class but remains enrolled will receive a failing grade in the course and is responsible for tuition and fees for that class.

## Graduate Cooperative Education

Graduate cooperative education provides the student with an opportunity to blend theory with practice resulting in a balanced education. Learning within the classroom is combined with practical on-the-job training in business, industry, and/or government.

The determination of eligibility for participation in the Graduate Cooperative Education Program is primarily an academic matter involving

the department in which the student is majoring. Prior to enrolling in cooperative education, a graduate student should normally have completed nine (9) semester hours of graduate credit. All graduate students must have a 3.0 grade point average when applying for cooperative education.

Acceptance of a student into the program is also contingent upon the location of a suitable graduate level training site and an agreement with the employer to hire. The co-op student will normally be employed full-time for a period of one semester in accordance with the employer's schedule. The type of employment and the total hours of employment are determining factors in assigning co-op credit. The University requires a minimum of 80 hours of employment for each semester hour of academic credit for graduate co-op, field placement, practicum, internship and other such placements. The salary for each position is negotiable but must fall within state and federal wage guidelines. For additional information, contact the Office of Academic and Career Services at (859) 622-1296.

## Program Planning

At the time of admission to the Graduate School, each student shall be assigned an advisor by the department offering the degree program into which the student plans to matriculate. The student shall take the initiative to become familiar with the objectives of his/her particular degree program and pertinent regulations, as they are described in this Catalog, prior to scheduling a conference with the assigned advisor. Discussion of the student's personal and program objectives should take place prior to the first registration.

During the first term, the student must meet with his/her advisor as listed in DegreeWorks. Subsequent changes of the program plan are permissible, but must be approved on the appropriate exception form by the advisor, the department chair, and the Dean of the Graduate School.

## Student Responsibilities

Student success is an EKU priority. The General Academic Information section provides students with key information to help them succeed on the path toward completing a degree. All students should become familiar with the General Academic Information section of the Catalog as well as specific college and departmental program requirements. Being unaware of these regulations and requirements does not exempt a student from complying with the requirements. Only the Graduate Council has the authority to waive the basic requirements stated in this Catalog. No statements made by any person regarding waiver of admission/program requirements shall in anyway bind the Graduate Council.

## Use of Coursework from Non-Degree or Certification Programs on Degree Programs

Normally, no more than twelve semester hours of work earned as a certification or general non-degree student may be applied to a graduate degree. Only courses with 3.0 or above earned grade points may be applied, although a grade in any course taken as a certification or general non-degree student will be considered in computing a student's overall grade point average.

## Academic Regulations

### Academic Fresh Start

Academic fresh start allows graduate students who have been in a different graduate program from their current graduate program at EKU to void a portion of the work attempted during one or more semesters of the prior enrollment(s). EKU offers this option because it recognizes that

some students fail to perform satisfactorily due to factors that interfere with their academic performance.

Students considering academic fresh start should make careful note of the following policy conditions:

1. The student must apply to a different graduate program than the one in which he or she was enrolled during the semester of the work to be considered for fresh start.
2. The student must have been out of the previously enrolled program for a period of at least one year after attempting the work to be considered for fresh start.
3. The student must not have previously participated in academic fresh start (or declared bankruptcy) of EKU work. Students can participate in Fresh Start only once.
4. Only semesters where the term GPA is below 2.0 will be considered for fresh start.
5. Within eligible terms (see d. above), only courses with grades of "C", "D", or "F," or the equivalent, may participate in fresh start.
6. Before formally requesting consideration for fresh start, the student must confer with experts in the Graduate School to determine which semesters may qualify for fresh start and the impact the fresh start program will have on the student's GPA. The student must then complete the graduate academic fresh start form indicating their intention to participate in academic fresh start to the Graduate School.

If fresh start is granted, the work will remain on the transcript but it will not be counted in the student's GPA and will not count toward degree requirements. Students admitted to a new degree program under this policy will only be admitted with probationary status and must meet the requirements for probationary admission in order to maintain enrollment in the new graduate program.

## Academic Integrity

EKU students are expected to adhere to the highest standards of academic integrity. Students who are found guilty of academic dishonesty will be sanctioned in a manner that is appropriate to the infraction. Sanctions may range from receiving a failing grade on the assignment to being assigned a failing grade in the course. Stronger sanctions are possible in the event a case is assigned to the Student Disciplinary Council.

For a full description of academic dishonesty, including plagiarism, cheating, and fabrication, refer to the section entitled Academic Integrity Policy in the University Handbook for Students.

## Academic Load

The normal full-time course load for a graduate student is 9-12 credit hours. Exceptional graduate students may request permission from the Graduate Dean to register for additional course work, up to a maximum enrollment of 15 credit hours.

Graduate assistants are permitted to carry a maximum course load of 12 hours and a minimum load of nine hours of graduate work toward their program.

## Academic Probation and Dismissal

All graduate students are expected to maintain a 3.0 graduate grade point average at all times. Students falling below the 3.0 GPA will be placed on academic probation. One semester may be allowed for removing the GPA

deficiency. Students who fail to achieve a graduate GPA of 3.0 or higher after their probationary semester will be dismissed from their graduate program. Students who wish to appeal their dismissal must do so within two year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor and the department chair/program coordinator to the Office of Graduate Education and Research and approval by the Graduate Dean. Students on academic probation or who have been dismissed cannot take a course from another institution for the purpose of transferring the credit to their program.

## Cross Listed Courses

Some courses are offered under different prefixes with the same course content. Students will not be awarded credit in any course for which they have previously received credit under a cross listed prefix.

# Application and Admission to the Graduate School

## Application to the Graduate School

Students may apply to the Graduate School as either Degree-Seeking or Non-Degree students. The application and all supporting documents (transcripts, test scores, etc.) must be received at least two weeks prior to the beginning of the term in which the student wishes to enroll. Some graduate programs have earlier deadlines. Please check the Graduate School website for complete information regarding application deadlines.

## Required Application Materials: Degree-Seeking and Non-Degree Seeking

**Application**—Each student must submit a completed application with all requested information provided. Students may apply online at [gradschool.eku.edu/apply](http://gradschool.eku.edu/apply) (<http://gradschool.eku.edu/apply/>).

**Transcripts**—One official copy of transcripts from the degree-granting institution showing all grades received and any degrees or certificates that have been awarded must be provided by each applicant at the time of application. An official transcript must bear the seal and signature of the registrar from the sending institution. Graduates from all schools other than Eastern Kentucky University should contact their registrar(s) and request the official copy of their transcript be forwarded directly to:

Office of Admissions  
Eastern Kentucky University  
112 Whitlock Building CPO 54  
521 Lancaster Avenue  
Richmond, KY 40475-3154

If possible, submission of electronic transcripts through the National Student Clearinghouse is preferred. Official transcripts marked "Issued to student" or similar language, and submitted in an envelope sealed by the sending institution or certified in some other way may also be acceptable. Students seeking admission must be graduates of an accredited four-year institution of higher learning authorized to grant the degree.

## Required Application Materials: Degree-Seeking

**Entrance Examination Scores:** — At the time of their application for admission to degree programs, applicants must submit satisfactory official score reports from one of the following tests as required by their prospective program:

1. the general section of the Graduate Record Examination (GRE);
2. the Miller Analogies Test (MAT); or
3. the Graduate Management Admissions Test (GMAT).

Please refer to the program areas for specific information on required tests and target scores. The GRE is required for all applicants wishing to be considered for Probationary Admission. See the section on Probationary Admission for additional information. All official test scores should be sent to:

Office of Admissions  
Eastern Kentucky University  
112 Whitlock Building CPO 54  
521 Lancaster Avenue  
Richmond, KY 40475-3154

Students can obtain GRE and GMAT information by visiting the Educational Testing Service at [www.ets.org](http://www.ets.org) (<http://www.ets.org>). GRE scores are valid for a period of 5 years following the date of test completion. Additional information for the GMAT and GRE can also be found at [www.mba.com](http://www.mba.com) (<http://www.mba.com>) and [www.gre.org](http://www.gre.org) (<http://www.gre.org>), respectively. The school code for Eastern Kentucky University is 1200. To schedule the Miller Analogies Test (MAT) students may contact the Office of Academic Testing at (859) 622-1281 or at [www.testing.eku.edu](http://www.testing.eku.edu) (<http://www.testing.eku.edu>).

**Letters of Recommendation**—Some graduate programs require letters of recommendation in support of an application. Requests for recommendation letters should be submitted within the application. Certain programs may withhold admission until letters have been received. Please refer to program areas for specific requirements regarding letters of recommendation.

## Admission to the Graduate School

Admission to the Graduate School at Eastern Kentucky University is based upon evidence that the applicant has already attained a certain minimal academic proficiency and will be able to pursue creditably a program of graduate study in a given field. All programs assume certain formal and informal prerequisites. Normally any deficiencies in the program must be resolved at the time of admission.

Eligibility for admission to the Graduate School does not insure admission to a specific graduate program. Some programs may have additional requirements beyond the University minimums. All students who intend to pursue a particular graduate program should refer to the specific program requirements listed in the college and/or department section of this Catalog. In certain programs, the University may need to limit the number of students accepted for graduate work if the number of applicants exceeds the capacity of available facilities/faculty. In no case does meeting the minimum criteria for admission guarantee acceptance into the Graduate School or graduate program.

No student may receive graduate credit for a course without admission to the Graduate School. Attendance in the Graduate School at Eastern Kentucky University is not a right. It is a privilege which may be withdrawn by the University or any area of graduate study if it is deemed necessary by the Office of Graduate Education and Research in order to safeguard the University's standards.

## Categories of Admission for Degree-Seeking Students

After evaluation of an applicant's credentials by the appropriate department and by the Graduate School, the applicant will be notified by letter from the Office of Graduate Education and Research that

1. admission has been granted under one of the categories listed below, or
2. admission has been denied, or
3. a decision has been deferred.

The letter from the Graduate School will stipulate the conditions of admission and period of validity for the admission, or reasons for denial or deferment of admission. An applicant who has not received an admission, denial, or deferral notice 48 hours prior to the beginning of the final regular registration period should contact, in person, the Office of Graduate Education and Research for clarification.

## Clear Admission

Applicants who have submitted a complete application and meet the requirements for both general admission to the Graduate School and their selected graduate degree program are eligible for clear admission. The minimum requirements for clear admission to the Graduate School are:

1. A baccalaureate degree from an accredited institution.
2. An overall undergraduate grade point average (UGPA) of 2.5 (4.0 = A) of the baccalaureate program
3. Submission of acceptable official examination (GRE/MAT/GMAT) if required by the graduate program.

Individual programs may have additional or higher criteria for clear admission. A department may waive the requirements for clear admission stipulated in 2 and 3 for applicants having earned a graduate degree from an accredited institution.

## Provisional Admission

An applicant unable to supply an official transcript showing the awarding of an undergraduate degree and/or official Entrance Examination scores, but who otherwise meets the admission requirements, may be granted provisional admission upon the recommendation of the appropriate department and approval of the Office of Graduate Education and Research. Complete and satisfactory credentials must be received by the Office of EKU Admissions before a student is permitted to register for any subsequent term.

A student will not be permitted to enroll in a graduate program with a provisional status for more than one semester. Provisional admission does not guarantee, in any way, subsequent clear admission. The Office of Graduate Education and Research reserves the right to withdraw without credit or refund any student for whom application is incomplete at the end of the first enrollment. International students may not be admitted on a provisional basis.

## Probationary Admission

An applicant who has submitted all required application materials but does not meet the minimum 2.5 cumulative GPA requirement may be considered for probationary admission. Applicants seeking probationary admission must submit valid GRE scores along with official transcripts at the time of application. To receive probationary admission, the applicant must show promise for successful graduate study and receive the recommendation of the appropriate department chair and approval of the Dean of the Graduate School. Students must be removed from probationary admission prior to registering in any graduate course work

beyond an initial 12 hours. *Students who do not attain the required 3.0 GPA at the end of the term in which the nine-hour minimum was completed will be dismissed from the graduate program without appeal.*

After obtaining probationary admission, the minimum condition for transfer from probationary admission status to clear admission status is the successful completion of at least nine hours of approved graduate course work at Eastern Kentucky University with a graduate grade point average of at least 3.0 at the end of the term in which the nine-hour minimum was completed. Special course requirements or other conditions may be imposed by the department, College dean, and/or the Office of Graduate Education and Research.

The Office of Graduate Education and Research will inform the student of all conditions for consideration for clear admission at the time the student is granted probationary admission status. Since the transfer from a probationary admission status to a clear admission status requires the successful completion of graduate course work at Eastern Kentucky University, no student should attempt to take graduate course work for transfer from another school during the probationary admission period.

A student admitted under probationary admission may not attempt any graduate course work graded pass-fail. In the case where specific courses have been designated by a program for the satisfactory-unsatisfactory grading mode, a maximum of three hours of course work graded satisfactory-unsatisfactory may be permitted during the initial 12 hours. A student in probationary status may not hold an assistantship without first achieving clear admission status. International students may not be admitted on a probationary admission basis.

## Non-Degree Admission

### General Non-Degree Admission

An individual wishing to take graduate courses at Eastern Kentucky University for personal or professional development, but who does not plan to pursue a graduate degree program, may be admitted as a non-degree student with the approval of the Office of Graduate Education and Research. Non-degree students must hold a baccalaureate degree from an accredited institution and must have a minimum overall undergraduate grade point average of 2.0 (4.0 = A). Non-degree students are not eligible for graduate assistantships or financial aid offered through the University.

A former or currently enrolled non-degree student may apply as a degree-seeking student. The student must meet all criteria for clear admission as stipulated above. Students admitted as General Non-Degree are not eligible for any form of Financial Aid offered through the University.

### Certification Admission

An individual wishing to take graduate courses in the College of Education as a part of initial or additional certification programs, or Rank I classification programs, is eligible for certification admission. However, students pursuing only Rank I are not eligible for Financial Aid. Students seeking Certification Admission are strongly advised to contact Big E Central to determine their eligibility.

A former or currently enrolled certification student who wants to apply for admission to a graduate degree program must submit an application for admission and all supporting documents and any required entrance examinations as listed in this *Catalog* under the section **Application to the Graduate School**.

Admission as a certification or general non-degree student does not guarantee subsequent clear admission into a graduate program. Graduate credit earned as a certification or general non-degree student

may be applied to a degree program only when the student meets all the minimum admission requirements; is granted clear admission after initial application; and approval is granted by the appropriate department, the college dean, and the Dean of the Graduate School. Normally, no more than twelve semester hours of work earned as a certification or general non-degree student may be applied to a graduate degree. Only courses with 3.0 or above earned grade points may be applied, although a grade in any course taken as a certification or general non-degree student will be considered.

## Visiting Student Admission

Because of its unique programs and facilities, faculty, diversified institutes and workshops, Eastern Kentucky University is attractive to many students who have been previously admitted to other accredited graduate schools. In order for a visiting student to be officially enrolled for graduate credit at Eastern Kentucky University, the student must file an application form and submit an official Visiting Student Certificate. The Visiting Student Certificate must bear the seal of the Graduate School and the signature of the Graduate Dean where the student has been admitted.

## Concurrent Enrollment

An Eastern Kentucky University undergraduate student who needs 30 or fewer credit hours to complete all of the requirements of the baccalaureate degree may be considered for undergraduate concurrent enrollment to the Graduate School. To be eligible for undergraduate concurrent enrollment, the student must have an overall undergraduate grade point average of at least 3.0 at the time of review. The student must maintain an overall undergraduate grade point average of at least 3.0 and a graduate grade point average of at least 3.0 to continue in the undergraduate concurrent program. Students may earn a maximum of 9 graduate credit hours while holding undergraduate concurrent admission status. A maximum academic load of 15 hours during a regular fall or spring semester and of nine hours during the summer session is permissible when the student is concurrently enrolled in graduate and undergraduate level course work.

The concurrent enrollment form should be initiated by the student at least 30 days prior to requesting enrollment in any graduate classes. Undergraduate concurrent enrollment to Graduate School must be supported by all appropriate advisors and college deans, as well as the Dean of the Graduate School.

**Note:** Federal regulations permit undergraduate students to receive financial assistance **only** for coursework required for their current degree program. Students who are enrolled in both undergraduate and graduate course work in the same semester **may receive less financial aid** than if only enrolled for undergraduate course work. Students are advised to contact Big E Central to find how their financial aid amount would be adjusted for mixed enrollment.

## O'Donnell Scholarship

If you are at least 65 years old and hold a bachelor's degree from an accredited institution, you may be granted admission to a degree program with a waiver of tuition. Refer to the "Required Application Materials" section of the catalog.

## Readmission

All graduate students who have not been enrolled at Eastern Kentucky University for a period longer than 24 months, or have withdrawn from the University, must submit a new application to the Graduate School and be accepted for reinstatement by the graduate program before being

permitted to register for graduate coursework. Please note that programs within the College of Education may require readmission after 12 months.

## International Student Admission

Eastern Kentucky University welcomes applications for graduate study from all qualified international students. The criteria for admission to the various programs of graduate study at this institution are the same for all students, but the United States Immigration laws impose certain additional requirements by which all U.S. institutions of higher education must abide in admitting international students.

Admission procedures for all international students are developed in compliance with existing laws of the United States Department of Justice, Bureau of Citizenship and Immigration Services. International students are strongly encouraged to visit the Graduate School website at [www.gradschool.eku.edu](http://www.gradschool.eku.edu) (<http://www.gradschool.eku.edu>) for additional application materials and instructions.

Applications for admission of international students are not considered complete without:

1. Application for admission and \$40 application fee.
2. Official transcripts (if in the States) or course-by-course foreign credential evaluation showing applicable U.S. baccalaureate equivalency. You must have a minimum cumulative GPA of 2.5 to be eligible for admissions review.
3. English Language Proficiency Exam: TOEFL (Test of English as a Foreign Language) - 550 Paper Based, 79 for Internet-Based, or 213 by Computer or IELTS (International English Language Testing System) - A minimum score of 5 on each section - Listening, Reading, Writing and Speaking and a minimum score of 6.5 on the overall band score. TOEFL and IELTS scores are valid for a period of two years from the date of test completion. ELS (English Language Services) - Students who receive conditional admission when applying to EKU Graduate School qualify to participate in the program. Students must obtain an ELS Level 112 Intensive English for Academic Purposes certificate in order to qualify for admission.
4. Official entrance exam (GRE, MAT, GMAT) scores. The target scores vary per program course of study.
5. Declaration and Certification of Finances. Must show financial support that covers cost of attendance for the academic year.

The completed application and all official admissions materials must be received by the Office of EKU Admissions within two weeks of the start date of any given semester. Appropriate I-20 forms will be issued after all official credentials have been received and admission is granted. The U.S. Bureau of Citizenship and Immigration Services requires certification that all standards for admission have been met before the I-20 form is issued. Please see below for additional information concerning international student admission to Eastern Kentucky University.

## Conditional Admission - International Students

International students who meet all graduate admission requirements except the English Language Proficiency (TOEFL, IELTS, or baccalaureate degree from Institution where English is the native language) may be eligible for Conditional Admission. Conditionally Admitted international students will be referred to the English Language Services (ELS) program. Students must then enroll in the ELS program and begin their intensive English language study. Students are eligible to enroll in graduate courses for the program to which they have been conditionally admitted

upon successful completion of the ELS program with an Exit Exam Competency Level 112 Intensive English for Academic Purposes.

For students who do not meet the exemption requirements for Entrance Exams (GRE/MAT/GMAT), Conditionally Admitted students must successfully complete the Entrance Exam requirement established by the program before they can be moved to Clear Admission status.

Applicants are advised that not all programs will offer Conditional Admission. Please review the information on the ELS website for specific questions about the intensive English language program.

## Health Insurance Requirement

Health insurance coverage is mandatory for every international student on an F-1 or a J-1 visa enrolled at Eastern Kentucky University (EKU). All international students will be automatically enrolled in the Eastern Kentucky University's health insurance plan at the time of class registration. The charge for coverage will be automatically added to your bill each semester. For more information, contact [international@eku.edu](mailto:international@eku.edu)

## University Housing

For complete information on housing, contact the Housing Office, Whitlock Building 552 or email: [housing@eku.edu](mailto:housing@eku.edu)

## Visiting Scholars

Visiting scholars at the graduate level may be admitted as non-degree students on the strength of their academic credentials by submitting transcripts and certificates of degrees. Scholars who are applying for the J-1 visa program must satisfy their host department and the J-1 Responsible Officer as to their academic preparation and their English language ability. The TOEFL or IELTS tests are not a requirement for such candidates; instead, they must demonstrate to the host department their ability to use English as necessary in their specific field or discipline. Visiting scholars will be issued the form IAP-66 by the Responsible Officer and must follow the regulations of the State Department as regards J-1 visa holders.

## Degree Completion Requirements

### Application for Graduation

A student planning to receive a university certificate, master's, specialist's or doctoral degree must apply for graduation prior to the deadline established by the Office of Graduate Education and Research. Students will be billed a \$55.00 graduation fee. This graduation fee only partially offsets the full cost of commencement celebrations and production and mailing of diplomas and certificates. The University absorbs cap, tassel, and gown costs for degree-earners who participate in the Commencement ceremony. Only students who are participating at Commencement receive complimentary regalia. Complimentary regalia will not be mailed to students who graduate but choose not to walk at Commencement.

Applications received after the deadline will be assessed a late charge. For application deadlines and late charges see the Graduate School Graduation website: [gradschool.eku.edu/graduation-commencement/](http://gradschool.eku.edu/graduation-commencement/). (<https://gradschool.eku.edu/graduation-commencement/>)

Candidates for Ed.D doctoral degrees are required to schedule their dissertation defense before applying for graduation. Candidates who are unable to complete thesis, dissertation, or other requirements for graduation during the term for which they have applied for graduation

may have their application deferred for up to one year. Candidates who fail to complete all requirements within the year must reapply for graduation.

Students will be considered candidates for graduation only if they have an overall and program graduate grade point average of 3.0 or higher at the beginning of the term in which they wish to graduate. The Office of Graduate Education and Research may not accept an application for graduation from a student who is not eligible to be considered for graduation.

## Graduation Academic Regalia

Students order and pay for commencement regalia (cap, tassel, hood, and gown) through the EKU Barnes & Noble bookstore (<https://registrar.eku.edu/graduation-celebrations> (<https://registrar.eku.edu/graduation-celebrations/>)). Refer to the Graduation Information website for more details regarding graduation fees, Doctoral Participation and order form and/or commencement.

## Degree Conferral Dates

The Board of Regents of Eastern Kentucky University approves the conferring of degrees four times per year. These conferral dates represent confirmation that all degree and/or university certificate requirements have been met by that date. The formal conferral date is posted to the student's academic transcript and is the date printed on the diploma and certificate.

Below are the EKU degree conferral dates:

Semester	Date
Fall A (end of first 8 weeks)	October: Last day of Fall A Term
Fall (end of full semester)	December: Last Day of Full Semester
Winter	January: Last Day of Term
Spring A (end of first 8 weeks)	March: Last Day of Spring A Term
Spring (end of full semester)	May: Last Day of Full Semester
Summer A (end of first 6 weeks)	July: Last Day of Summer A Term
Summer (end of full semester)	August: Last Day of Full Semester

## Diploma and University Certificate Production

Diplomas and University Certificates are produced and mailed to students after all final grades are reviewed and it has been confirmed that all degree requirements have been met. The graduation confirmation process takes several weeks to complete. Therefore, students should expect to receive their diploma 6-8 weeks after the end of finals week. Students who are indebted to the University will not have their transcript or diploma released until the debt is paid. Any questions regarding student financial obligations should be directed to Big E Central.

## Locking Academic History

(After Degree Has Been Awarded)

Once a degree has been conferred the academic record of all work contributed to the awarded baccalaureate, master's, or doctoral degree is locked. No course grades may be repeated or replaced for any classes used toward the conferred degree.

The Office of the Registrar takes great care to ensure that each student's academic record is accurate. Any student who believes an error has occurred should immediately bring this to the attention of the Office of the Registrar. Students have one calendar year after a degree is awarded to identify any item on their academic record believed to be in error. After that time the record is considered to be permanent. Please note that grade challenges have a different timetable and must always be directed to the chair of the department which offered the course in question. For details regarding the timetable and process for grade challenges please refer to the student handbook at <http://studentaffairs.eku.edu/studenthandbook> (<http://studentaffairs.eku.edu/studenthandbook/>).

## Time Requirements

For master's degree programs of 40 or fewer hours, a graduate student is expected to complete requirements for the master's degree no later than seven years after beginning course work (e.g., a student whose initial registration for courses was Fall 2018 must complete the program in order to include this course work by the end of the Summer term 2025). For degree programs of 41 or more hours, a graduate student is expected to complete requirements for the degree no later than ten years after beginning coursework. The minimum time interval required for completion of a graduate degree is two semesters of full-time study.

## Minimum Hours Required

All master's degree programs require a minimum of 30 semester hours. All specialist's degree programs require a minimum of 60 hours of approved graduate coursework beyond the baccalaureate degree. Some programs require additional hours that exceed this minimum.

At least half of the total course work, shall be in courses open only to graduate students (800 level).

## Theses and Dissertations

Students who submit a thesis in partial fulfillment of the master's or specialist's degree, or a dissertation in partial fulfillment of the doctoral degree must prepare it in conformity with the regulations approved by the Graduate Council. An approved template is available on the Graduate School website ([gradschool.eku.edu/thesis-guidelines](http://gradschool.eku.edu/thesis-guidelines) (<http://gradschool.eku.edu/thesis-guidelines/>)). The electronic copy of the thesis or dissertation in Microsoft Word document format must be submitted to the Office of Graduate Education and Research at least three weeks prior to the end of the term. Electronic copies will be posted in EKU's Encompass institutional repository and in the ProQuest EMI database.

Theses and dissertations must be developed under the direction of a committee consisting of at least three tenured, tenure-track, or retired faculty members who hold Graduate Faculty status at Eastern Kentucky University. Committees of larger than three are acceptable. However, the majority of faculty members serving on a committee must be EKU tenured, tenure-track, or retired faculty holding Graduate Faculty status. Comprehensive exam committees, and thesis/dissertation committees must be chaired by a Graduate Faculty member on tenure/tenure-track appointment.

## Exit Competency Requirement

All candidates for graduate degrees shall perform satisfactorily on the appropriate exit competency for their selected program of study. Exit competencies may be in the form of a thesis or dissertation, including an oral defense, a written or oral comprehensive examination, a capstone course, portfolio evaluation or other suitable project. Exit competencies

are not to be given while the student's overall or program graduate grade point average is below 3.0.

Exit Competency requirements should be designed by the program in a manner that synthesizes central elements of the student's graduate program and should be aligned with the Graduate Student Learning Outcomes described elsewhere in the Graduate Catalog. Candidates for the exit competency must register for the appropriate section of GRD 8X7 or 8X8, a thesis or dissertation course, or a program capstone course in the term for which they wish to attempt the exit competency. Committee chairs shall certify the results of the completion of the exit competency by submitting a grade of S, U, or IP for GRD 8X7 or 8X8, or grades for thesis, dissertation and capstone courses.

The department's comprehensive exam appropriate graduate committee must develop a remediation plan for any student who fails the program's exit competency requirement. The remediation plan must address all academic deficiencies identified in the exam exit competency and must be submitted to (approved by) the Office of Graduate Education and Research before a second attempt at the exit competency is permitted. Additional courses or thesis work may be required of a failing student. A review period of not less than 30 days nor more than one year is required of candidates who fail the exit competency requirement for Master's degrees or specialist credentials. Doctoral programs may establish more stringent requirements on the development of a remediation plan and review period, provided that they are published in the Exit Requirements section of the Graduate Catalog for the program.

## Continuing Enrollment

Graduate students who have completed all course requirements but have grades of IP (In Progress) for theses, dissertations, practicum and/or internships will be automatically enrolled in GRD 899 Continuing Enrollment. Continuing Enrollment allows students to access EKU Libraries, use lab facilities, etc. for up to one year while In Progress work is being completed. A Continuing Enrollment Fee will be assessed for each term in which a student is enrolled in GRD 899 Continuing Enrollment. While a student is enrolled in GRD 899 Continuing Enrollment, the student will remain in Active status and will be considered as being enrolled as a half-time student.

## Additional MBA Degree Requirements

According to AACSB International business accreditation standards, students enrolled in University graduate degree programs, other than those within the EKU Business, will not receive credit toward their degree completion requirements for more than 50 percent of their graduate programs in credit hours in courses offered through EKU Business and/or business courses (courses commonly taught in a college of business) transferred from other colleges and universities or taken from other units within EKU.

## Second Master's Degree Requirements

Graduate students seeking a second master's degree must file an application for admission to Graduate School for the new degree program. A student may apply for admission to a second graduate program any time after they have applied for graduation in their first program. Students are eligible for admission to a second degree program after they have been certified for completion of the first degree program by the Graduate School. Students may not register for coursework in the second degree program until they have been admitted to that program by the Graduate School.

Coursework taken in a prior graduate program may be applicable to a second master's degree. The maximum number of hours that can be used in a second program is subject to the limits set forth in the Graduate School's policy on transfer of credit. Prior coursework used toward a second degree must fall within the time-to-degree limits and must be approved by the faculty advisor, graduate program coordinator and/or department chair, and the Dean of the Graduate School.

## Specialist's Degree Requirements

The University offers advanced graduate work leading to the Specialist in Education. Beginning graduate students interested in two-year programs with special preparation for teaching or professional service opportunities in post-secondary technical school, junior or senior colleges should seek early advisement in order to assure proper program development. Students should refer to the appropriate college/department section for specific admission and program requirements.

## Grades

### Grading System

#### Graduate Letter Grades

Grade	Meaning	Grade Points per Hour
A	Excellent	4.00
B	Good	3.00
C	Average	2.00
D	Failure	0.00
F	Failure	0.00
FN	Failure <sup>1</sup> - Stopped Attending Class	0.00
FX	Failure - Academic Dishonesty	0.00
I	Incomplete	0.00
IM	Incomplete Due to Military Activation	0.00
P	Passing	0.00
S	Passing	0.00
U	Failure	0.00
UN	Failure <sup>1</sup> - Stopped Attending Class	0.00
W	Withdraw	0.00
WM	Withdraw Due to Military Activation	0.00
AU	Audit	0.00
CR	Credit Only	0.00
IP	In Progress	0.00
NC	No Credit	0.00
NR	Not Reported	0.00

<sup>1</sup>

FN/UN: Students who stop attending/participation in online courses and do not resume participation have unofficially withdrawn from the class. This act may have significant financial aid repercussions. EKU is required by the U.S. Department of Education to provide a last date of attendance/participation for such students.

Throughout this *Catalog*, specific grade requirements are to be interpreted precisely as stated. Thus, if a requirement specifies that a grade of at

least “C” is required, a “C-” will not satisfy the requirement. If it is intended that “C-” is to be allowed, a “C-” will be listed rather than “C.” This applies to all specific grade requirements.

The grade point average (GPA) is based on those courses in which a student earns a normal letter grade (“A”-“F”, or “U”). The overall graduate grade point average includes all graduate course work taken by the student at any institution at any time unless specifically excluded. The program graduate grade point average includes only those courses included as a part of the student’s planned program.

### Incomplete Grade Agreement

When a student has extenuating circumstances that impede him/her from completing a course, an incomplete grade may be awarded as a temporary final grade. The incomplete grade cannot be used simply because a student has failed to complete the work in the course or as a means of raising the student’s grade by doing additional work after the grade report time. Students must request an incomplete grade from the faculty member prior to the last day of class when a student wishes to pursue an incomplete grade. If the instructor agrees that the student has extenuating circumstances beyond his/her control and the instructor agrees to assign an incomplete grade, the instructor must complete an Incomplete Grade Agreement detailing all outstanding assignments and/or conditions needed to complete the course, and a due date for each assignment.

An incomplete grade may not be given as a midterm grade. Any student given an incomplete is expected to have satisfactorily completed at least 60% of the course.

The following procedure applies when an instructor has agreed to assign a grade of “I” for students who are unable to complete the course because of extenuating circumstances.

1. On the Incomplete Grade Agreement, the instructor will identify all outstanding assignments and/or other conditions needed to complete the course, and due dates for each assignment.
2. Faculty are strongly encouraged to give students the shortest reasonable time period in which to complete the work. The longest possible time period is the end of the next regular semester (fall/spring); however, typically it benefits students to complete work before they begin classes the next semester.
3. The Incomplete Grade Agreement must be signed by the faculty member, student, chair of the department offering the course, and dean of the college offering the course. Student approval of the terms of the Incomplete Agreement can be submitted electronically, and attached to the form. Chairs should assure that the Agreement includes reasonable due dates for completing the work, and all signatures.
4. The Incomplete Grade Agreement must be received by the Registrar’s Office no later than 15 university business days past the deadline for final grade submission. While the faculty will be able to submit the “I” grade through the online grade submission process, any “I” grade that is not accompanied by an Incomplete Grade Agreement within 15 university business days of the advertised final grade submission deadline will be converted to an “F”
5. Outstanding work must be completed by the student and a Grade Change form must be submitted by the instructor to the Registrar’s Office by the deadline noted on the Incomplete Grade Agreement. If a grade change is not submitted by the established deadline, the incomplete will automatically default to a failing (“F”) grade.

6. If, due to extenuating circumstances, a student is unable to complete the contracted course work to fulfill the incomplete course by the deadline on the Incomplete Grade Agreement, the student has the option of requesting a one-time, one semester extension to the incomplete deadline. The student must initiate the request through the instructor before the original deadline. Approval of the extension of an incomplete grade is not automatic and depends on the student’s unique circumstances.

A grade of “IP” is available for courses which the graduate faculty has anticipated may take more than the normal semester, such as thesis. “IP” grades are available only in courses which have been approved to receive “IP” grades by the Graduate Council and the Council on Academic Affairs. A student assigned an “IP” grade for internship, practicum or self-paced courses must complete requirements within the calendar year after the “IP” is awarded to receive credit for the course. If requirements are not completed, the Registrar will change the “IP” grade to “NC” (No Credit), and the student must register again for the course to receive credit. Grades of “IP” for thesis must be changed within seven years.

A degree cannot be awarded to a student with any incomplete or non-recorded (NR) grades for ECU courses on his/her record. Any student who is a pending graduate with unresolved ECU incomplete grades (“I”) will be given the choice of either accepting an “F” for the course (or “NC” for unresolved “IP” grades) or being deferred to the next term for graduation consideration.

### Grade Appeals

If a student believes that the final grade assigned in a course is unjustified, that student should consult the instructor, seeking a satisfactory explanation. If, after doing so, the student still feels that the grade is unjustified, the student may appeal the grade, in writing, to the department chair. A written appeal must be filed with the chair within 30 days after the beginning of the next semester (exclusive of summer session). Refer to the University Handbook for Students for complete policy concerning grade appeals.

### Repeating Courses and Grade Calculation

Students may repeat a graduate course one time for the purposes of grade replacement, as long as the repeat is not prohibited by the policy of the graduate program. Individual graduate programs may impose limitations on course repetitions, and the student should consult with the advisor and/or graduate program coordinator/department chair for the program’s policy regarding repeat of courses. An enrollment is counted as a repeat if previous enrollment in the course resulted in a passing or failing grade. For repeated courses, the best grade earned will replace a lower grade in calculations of the student’s term and cumulative GPA. The grade replacement occurs irrespective of whether the lower grade was earned in the original taking of the course or in a repeat enrollment.

The repeated course and grade will still appear on the transcript but with the notation indicating whether the grade is included or excluded from the student’s GPA. If a student attempts to repeat a course and replace the grade but then withdraws from the course, that course attempt will not be counted among those for which grade replacement is available.

Students who repeat a course in which they earned a failing grade, and fail the course again, will have the most recent failing grade included in the GPA.

A graduate student may enroll in a course for the third time (second repeat) only under unusual circumstances and with the written approval of the advisor, the department chair/program coordinator of the student’s

major, the dean of the college of the student's major, and the Dean of the Graduate School. If a student enrolls in a course for a third or subsequent time without approval, the student may be administratively withdrawn from the course. The grade earned in a course taken at another institution will not replace a grade earned at Eastern Kentucky University. A grade of "S," "CR," or "P" will not replace a letter grade.

## Grade Change

All grade changes must be made by the following deadlines:

- for fall semester grades—the last day of classes for the following spring semester; and
- for spring and summer semester grades the last day of classes for the following fall semester.

## Changes to Transcript

Once a degree has been posted to the transcript, changes will not be made to courses or grades earned prior to the posting of the degree. Transcript Notations

A student's academic standing (good standing, academic probation, academic suspension, or academic dismissal) is determined at the conclusion of each semester and is notated term by term on the student's transcript.

Expulsion is the permanent separation of a student from the institution. Expulsion at EKU is restricted to the most egregious academic or disciplinary offenses. Expulsion, due to its permanent nature, is notated on the official transcript with the comment, "Expelled – ineligible to return".

Details of due process that can lead to expulsion of a student can be found in the Eastern Kentucky University Handbook for Students. For process and sanction details refer to the Office of Student Conduct and Community Standards <http://studentrights.eku.edu/student-conduct>

## Pass-Fail Grades and Audit

The Pass-Fail and Audit options are available for students who wish to take graduate courses for their own professional growth or personal interest. Not all courses are approved to be taken as Pass-Fail or Audit. The Office of the Registrar will verify the course is approved to be taken as Pass-Fail or Audit. Courses taken Pass-Fail or Audit may not be used in any graduate program. Students may select the "Pass-Fail" option by completing the Audit/Pass-Fail registration form, available from the Office of the Registrar. Students may change to or from the Pass-Fail option by the date specified each semester in the *Colonel's Compass*. The student must submit to the Registrar's Office the completed form as authorization to change their registered course to Pass-Fail.

## Satisfactory-Unsatisfactory ("S"-"U") Grading System

Some courses are approved to be taught exclusively on a "Satisfactory" ("S") or "Unsatisfactory" ("U") basis. Each student enrolled in the class will receive either a grade of "S" or "U." Hours passed under the Satisfactory-Unsatisfactory option will not be used in the computation of GPAs; however, hours failed ("U") will be used. A few courses such as practicum, internship, and thesis, which have been specifically designated by the department for satisfactory-unsatisfactory grading only, may be used on any graduate program.

## Graduate Course Credit

All 700 level courses have undergraduate 500 level counterparts bearing the same last two digits. The 700 level courses are offered only for

graduate level credit and require additional appropriate experiences for all students enrolled. Credit will not be awarded for both the 500 and 700 level of the same course. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Courses numbered in the 700 and 800 series are open only to graduate students or to undergraduate students granted concurrent enrollment or admitted to a 3+2 dual-degree program. Courses in the 900 series are open only to doctoral students.

Correspondence courses from any source are not applicable for graduate credit.

Graduate level courses are expected to require a minimum of four hours of outside preparation for every hour of lecture. Course syllabi are to reflect these expectations. Graduate courses other than those which are independently directed, shall be based upon a minimum of 12.5 clock hours of contact per hour of graduate credit. Workshop courses shall have a minimum of 25 clock hours of contact per hour of graduate credit. All credit producing experiences shall be based upon a minimum of one week of instruction per hour of graduate credit. The University requires a minimum of 80 hours of employment for each semester of academic credit for graduate co-op, field placement, practicum, internship and other such placements.

## Transfer of Credit

A student may transfer from other accredited or professional graduate schools up to 12 hours of course work that has been accepted by their Master's or Specialist degree program without transferring in all graduate course work taken at that institution. Up to 15 hours of coursework may be transferred into graduate degree programs requiring 45 or more hours and up to 18 hours for graduate degree programs requiring more than 54 hours. Only the transferred work for the degree program will be used to calculate the overall grade point average. Any programs covered by an articulation agreement between Eastern Kentucky University and other colleges or universities are excluded from the 12-hour transfer limit.

Official copies of transcripts must be submitted and evaluated before any transfer credit can be accepted. Certain courses submitted for transfer may not be considered equivalent to specified program requirements even though course titles are the same. Official requests for transfer of credits must be recommended by the student's advisor, the department chair, the college dean, and approved by the Office of Graduate Education and Research. Students who would like to enroll in courses at another institution while enrolled at EKU and expect to transfer credits to meet program requirements at EKU should obtain official approval prior to registration for the courses at the other institution. Official transcripts of approved transfer credits must be submitted to the Office of Graduate Education and Research within 30 days after the course has been completed.

Office of Graduate Education and Research  
Eastern Kentucky University  
Whitlock 310, CPO 68  
521 Lancaster Avenue  
Richmond, KY 40475-3168

Transfer credits taken during the final semester of a program will delay graduation and certification approval until official transcripts have been received in the Graduate School Office. If transfer work is taken during the semester in which a student is to graduate with a degree, the official

graduate school transcript must be received in EKU's Office of Graduate Education and Research within two (2) weeks of the end of the semester.

Credits earned at other institutions may be transferred only when grade points of "B" (3.0 on a 4.0 scale) or above has been earned. The credit-producing experience must be taught by a graduate faculty member with scholarly competence in the subject matter area to be considered for transfer. Graduate credit for "special workshop courses" may be considered for transfer only when it can be clearly documented that the course in question meets Eastern Kentucky University's graduate instructional standards and is clearly distinguishable from undergraduate work and from continuing education activities. Students on academic probation cannot take a course from another institution for the purpose of transferring the credit to their program.

## Graduate Assistantships

Graduate assistantships are positions given to the most outstanding students. Duties may include laboratory supervision, teaching, and research related tasks. Stipends are competitive and assistantships supported through the Graduate School include a partial tuition waiver of six graduate hours per semester for a full-time appointment. Additional assistantships are available through the Office of Housing & Residence Life and other academic and administrative units and many of these also provide a partial tuition waiver.

Graduate Assistants (GAs) are appointed by the individual departments of each college and subject to the approval of the Graduate School. Questions regarding application for appointment should be directed to the graduate coordinators of that department.

Graduate Assistants must be enrolled in a graduate degree program and must be enrolled in a minimum of 9 hours of graduate coursework applicable to their degree. Students in their final semester of graduate study who have applied for graduation may hold an assistantship with less than full-time enrollment. Graduate Assistants must maintain and overall graduate GPA of 3.0 or higher. Students admitted to the Graduate School on Probationary Admission are typically not eligible for Graduate Assistantships. Graduate Assistantship appointments are limited to no more than 4 academic terms, excluding summers. Exceptions may be granted for programs exceeding 40 semester hours. Students may receive support in a second subsequent graduate program provided that they have completed all requirements for their first degree. Assistantships will not be awarded for a third master's program.

Additional on-campus employment for graduate assistants is normally not allowed. Under exceptional circumstances, additional on-campus may be considered for students who have completed 18 or more hours toward their graduate program with a graduate GPA of 3.5 or above. Graduate assistants who meet these conditions may be eligible for additional employment of up to 7.5 hours/week (17.5 hours/week for graduate assistants on half-time appointments). Additional employment must be recommended by the student's academic advisor and department chair and are subject to approval by the Graduate Dean. Requests forms for additional employment and additional information are available on the Graduate School website. International students on student visas may not be eligible for additional employment.

## Registration

Graduate students may register via the Web at [www.eku.edu](http://www.eku.edu) (<http://www.eku.edu>) (click on **myEKU**) on the dates stipulated in the Colonel's Compass (also found at [www.eku.edu](http://www.eku.edu) (<http://www.eku.edu>); look

underneath **myEKU**, and click on "Colonel's Compass"). Students should consult with their advisors. The student bears the responsibility for courses scheduled, subject to the policies and approval of the Office of Graduate Education and Research. The student is responsible for registering a motor vehicle, housing arrangements, and payments of all fees and assessments in accordance with prevailing University policy.

Students with interruptions of study on campus who wish to participate in registration should notify the Office of Graduate Education and Research of their plans to continue study, furnishing full names and social security numbers, at least two weeks in advance of the published registration dates.

## Change of Schedule

The University reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

The Graduate School reserves the right to suspend or alter registration orders not in consonance with the individual's planned program or in the instance of closed or canceled sections. Program modifications should be accomplished through the regular add-drop procedure on the dates designated.

Students who are assigned a grade of "F" in a course due to academic dishonesty will not be permitted to drop the course.

## Withdrawal From The University

Eastern Kentucky University is strongly committed to supporting students in achieving success in their intellectual and extracurricular endeavors. Students finding it necessary to withdraw from the University may withdraw from all courses online using myEKU until the end of the twelfth week for full semester classes. Classes of shorter duration have proportional withdrawal periods. Refer to the Colonels Compass for dates. Students enrolled in full semester classes are not allowed to withdraw from a course or from the University after the twelfth week of a regular term. A grade of "W" is assigned for each withdrawn class. Students are not allowed to withdraw from the University after the twelfth week of a regular term. Students who leave the University without an official withdrawal are subject to the grade of "F."

## Late Withdrawal

After the twelfth week, a student who is the victim of extraordinary circumstances which does not qualify them for a Medical Withdrawal may petition for a late withdrawal from the University. The student who wishes to withdraw after the deadline to do so must appeal through the Registrar's Office. The deadline for filing a Petition for Late Withdrawal for Extenuating Circumstances is the last day of the full semester following the term from which the student is seeking withdrawal. The student must complete a Petition for Late Withdrawal form and should include justification and documentation for the withdrawal. If approved, the Registrar will assign grades of "W" to the indicated courses. Students are still responsible for all tuition and fees.

For forms and more details, refer to the Registrar's website.

## State Authorization

### Kentucky is a SARA State

Eastern Kentucky University is a bricks and mortar Public University located in Richmond, Kentucky and recognized by Kentucky Revised Statute 164.290. Effective January 30, 2017 Eastern Kentucky University is a State Authorization Reciprocity Agreement (SARA) member. For more information on NC-SARA you may visit <https://nc-sara.org>. Under the terms of SARA, EKU is operating in all other member states, also known as host states under the terms of SARA.

### What is SARA?

The State Authorization Reciprocity Agreement (SARA), provides a voluntary, regional approach to state oversight of postsecondary distance education. SARA establishes uniform processes and national standards for interstate offering of postsecondary distance learning. When states join SARA, they agree to follow those processes when approving eligible institutions' participation in distance learning. They also agree to operate under SARA standards when interacting with other member institutions.

SARA's policies help protect students and provide benefits to both states and institutions carrying out distance education in multiple states. As of April 2020, 49 states, the District of Columbia, Puerto Rico and the U.S. Virgin Islands are members of SARA. Over 2,100 colleges and universities participate in SARA.

### Agency Information

The Southern Association of Colleges and Schools is Eastern Kentucky University's regional accrediting body.

1866 Southern Lane  
Decatur, GA 30033  
(404) 679.4500  
Website: <https://sacscoc.org/>

For a list of program specific accreditation and membership please review the University's online catalog, pages 374-375, <https://catalogs.eku.edu/>.

Eastern Kentucky University's regional compact is the Southern Regional Education Board (SREB).

Southern Regional Education Board (SREB)  
Wanda Barker Director, Education Technology and Multistate Cooperative Programs  
592 10th Street N.E.  
Atlanta, GA 30318-5776  
Phone: (404) 875.9211 ext. 258  
[wanda.barker@sreb.org](mailto:wanda.barker@sreb.org)  
Website: [www.sreb.org/sara/](http://www.sreb.org/sara/) (<http://www.sreb.org/sara/>)

Eastern Kentucky University's state regulating agency is the Kentucky Council on Post-Secondary Education. The Kentucky Council on Post-Secondary Education also serves as the state's portal agency for state authorization purposes.

1024 Capital Center Dr #320  
Frankfort, KY 40601  
Phone: (502) 573-1555  
Website: <http://cpe.ky.gov/>

## Definitions

**Student(s):** Anyone who is planning to apply to EKU or anyone currently enrolled with EKU.

**Regulated/Regulations/Regulating:** Rules, guidelines, standards, approval requirements set by an overseeing body in a state.

**Residential address:** The address where you reside and receive mail.

**Location:** Where you are located while the learning activities take place.

**Accredited or Accreditation:** Holding institutional accreditation by name as a U.S.-based Institution from an Accrediting Agency.

**Accrediting Agency:** An accreditor recognized by the U.S. Department of Education and whose scope of recognition, as specified by the U.S. Department of Education, includes Distance Education.

**Affiliate Member:** A State, territory, or district that affiliates with a Regional Compact under the terms of SARA in order to join SARA but is not a full member of that compact. The term "Member State" when used in this document includes affiliate members.

**Authorized:** Holding a current valid institutional Charter, license, approval, or other written document issued by a state, the federal government or a recognized Indian tribe, granting the named entity the authority to issue Degrees and operate within a State or jurisdiction as a postsecondary education Institution.

**Complaint:** A formal assertion in writing that a person, Institution, State, agency or other organization or entity operating under the provisions of the SARA Manual has violated the policies set forth in the SARA Manual or of laws, standards or regulations incorporated in the SARA Manual. See. SARA Manual • Version 20.1. January 1, 2020 Distributed February 6, 2020

**Council:** The National Council for State Authorization Reciprocity Agreements, or in short form National Council for SARA, or NC-SARA.

**Exempt:** The regulations established do not apply to EKU therefore we are allowed to proceed and/or operate

**Collaborating Organization:** An organization that allows students enrolled in a program that requires students complete a field placement, internship, externships and/or practicum as part of the educational curriculum for which a student receives educational credit hours to come into their organization to obtain said educational credit hours

**Portal:** Liaison entity that works with both the educational institutions and the regulating bodies to ensure compliance

## Disclosures

### Notice for Programs Leading to Licensure

SARA (State Authorization Reciprocity Agreement) has no bearing on state licensure boards.

Licensure requirements are regulated by each state's respective board(s) and must be met in order to obtain a license in that state. EKU reserves the right to offer program(s) that lead to licensure in the states where EKU has made every reasonable effort to determine its program(s) comply with each state's regulations. Regulations are ever evolving and can change without any notification to the higher education institutions. Students are encouraged to contact their applicable state licensing board(s) to determine whether the program continues to meet

requirements for licensure in that state both before enrolling and during the learning experience.

A full list of all applicable state board contact information can be found at: <https://www.nc-sara.org/professional-licensure-directory> (<https://www.nc-sara.org/professional-licensure-directory/>).

## Out-of-State Relocation

It is imperative for students enrolled in a program leading to licensure to notify their advisor in advance of any plans to relocate out of state. Advisors will help students determine authorization and licensure eligibility requirements if the student relocates during the course of the program. Licensure regulations vary by state and relocating could affect whether a student will meet eligibility requirements for licensure and/or remain eligible for federal financial aid. Students must check with the state/territory licensing board where they desire licensure before relocating to ensure that they will be eligible for licensure or reciprocity.

Students must report their current residential address on their application for admission.

Students must also report where they will be located while enrolled at EKU to their advisor and/or program coordinator. Any out-of-state relocation that takes place must be reported to your advisor and the Registrar's Office.

## Complaints

1. Complaints against an Institution operating under SARA policies go first through the Institution's own procedures for resolution of grievances. Allegations of criminal offenses or alleged violations of a State's general-purpose laws may be made directly to the relevant State agencies.
2. Complaints regarding student grades or student conduct violations are governed entirely by institutional policy and the laws of the SARA Institution's Home State.
3. If a person bringing a Complaint is not satisfied with the outcome of the institutional process for handling Complaints, the Complaint (except for Complaints about grades or student conduct violations) may be appealed, within two years of the incident about which the Complaint is made, to the SARA Portal Entity in the Home State of the Institution against which the Complaint has been lodged. That Portal Entity shall notify the SARA Portal Entity for the State in which the student is located of receipt of that appealed Complaint. The resolution of the Complaint by the Institution's Home State SARA Portal Entity, through its SARA complaint resolution process, will be final, except for Complaints that fall under the provision "7" below.
4. While the final resolution of the Complaint rests with the SARA Portal Entity in the Home State of the Institution against which the Complaint has been lodged, the Portal Entity in the complainant's location State may assist as needed. The final disposition of a Complaint resolved by the Home State shall be communicated to the Portal Entity in the State where the student lived at the time of the incident leading to the Complaint, if known.
5. While final resolution of Complaints (for purposes of adjudication of the Complaint and enforcement of any resultant remedies or redress) resides in certain cases with institutions (Complaints about grades or student conduct violations), or more generally with the relevant Institution's Home State SARA Portal Entity (all other Complaints), the Regional Compact(s) administering SARA may consider a disputed Complaint as a "case file" if concerns are raised against a SARA member State with regard to whether that State is abiding by SARA policies, as promulgated in the SARA Manual. The Regional Compact may review such institutional concerns in determining whether a State under its SARA purview is abiding by SARA policies. Similarly, a Complaint "case file" may also be reviewed by NC-SARA in considering whether a Regional Compact is ensuring that its SARA member States are abiding by the SARA policies required for their membership in SARA.
6. SARA State Portal Entities shall report quarterly to NC-SARA the number and disposition of appealed Complaints that are not resolved at the institutional level. NC-SARA shall make that information publicly available on its website. Such data will create transparency and can be used in determining whether a Regional Compact is ensuring that its SARA member States and those States' Institutions are abiding by the policies required for State membership and institutional participation in SARA.
7. Nothing in the SARA Manual precludes a State from using its laws of general application to pursue action against an Institution that violates those laws. SARA Manual • Version 20.1. January 1, 2020 Distributed February 6, 2020

## Oversight of Complaint investigation

Investigation of a SARA-related Complaint against an Institution requires that a state board, agency or entity outside the institution's immediate management be available to handle Complaints that are not resolved within the institution. A system board responsible for more than one separately Accredited institution may serve this role under SARA provisions. A board responsible for only one Accredited institution, or which lacks enforcement authority over an Institution, cannot serve as the SARA external oversight agency for such an institution. In such circumstances, the institution's home-state SARA Portal Entity may serve that function.

## Disclaimer

Please be advised that there may be other factors that could prohibit your success in a program, such as a criminal record. If you are a convicted felon under federal law U.S.C. Title 18 you are not allowed to lawfully own a firearm which would inhibit your ability to find gainful employment in many of the Criminal Justice majors.

Having a criminal record could also affect your ability to successfully obtain professional licensure in many states and your ability to secure field placements, internships, externships and/or practicums.

Many collaborating organizations require students to submit to a drug screen, criminal background check, sex offender registry search, OIG (Office of Inspector General) search, federal finger printing and/or to submit copies of all your immunization records, including OSHA training certificates, HIPPA training certificates and CPR certification. These tests are at the expense of the student. Collaborating organizations reserve the right to deny student field placements, internships, externships and/or practicums for many reasons including but not limited to if a student has a criminal record or fails the drug screen standards as established by the collaborating organization.

For more information on a specific program please visit [www.ekuonline.eku.edu](http://www.ekuonline.eku.edu) (<http://www.ekuonline.eku.edu>) and/or reach out to the program advisor.

## Alabama

**Teacher Education Programs:** *Applicants for an Alabama certificate based on reciprocity must meet Alabama's test requirements and submit a valid, renewable professional educator certificate/license issued by another*

state at the degree level, grade level, and in the teaching field or area of instructional support for which an Alabama certificate is sought and for which an Alabama certificate is sought and for which Alabama issues a certificate. Applicants for Alabama certification in an area of administration must also document at least three years of full-time employment as an administrator in a P – 12 school system(s). See [www.alsde.edu](http://www.alsde.edu) (<http://www.alsde.edu>)

**Nursing:** State approval of a program to offer Alabama licensed nurses opportunities for advanced degrees does not indicate eligibility for approval to practice as an advanced practice nurse in Alabama. Applicants for approval in Alabama are required to meet the Alabama requirements for national certification, graduation from a specific-type program for the advanced practice approval, and completion of the appropriate application. Any program offering a pre-licensure track to Alabama students shall meet the requirements of the Alabama regulations for pre-licensure programs or the graduates may not be eligible to take the licensure examination required by the Alabama Board of Nursing to enter the practice. See [www.abn.alabama.gov](http://www.abn.alabama.gov) (<http://www.abn.alabama.gov>)

## Oregon

Online students residing in Oregon are eligible for refunds pursuant OAR 583-030-0035(18) (c): After classes begin for a term, a student who withdraws from a course is eligible for a partial refund through the middle week of the term. Refunds shall be based on unused instructional time and shall be prorated on a weekly basis for schools using a semester, quarter or nontraditional calendar.

- Terms that are 17 weeks in length require a refund through week 9.
- Terms that are 10 weeks in length require a refund through week 5.
- Terms that are 8 weeks in length require a refund through week 4.
- Terms that are 5 weeks in length require a refund through week 3.
- Terms that are 2 weeks in length require a refund through week 1.

Partial refunds will occur through the middle week of any given term, and prorated on a weekly basis as stipulated above.

## College of Business

Dr. Thomas M. Martin, Dean  
Business and Technology Center 214  
(859) 622-8111

Dr. Patricia Isaacs, Associate Dean  
Business and Technology Center 214  
(859) 622-7701

Dr. Marcel Robles, Chair of the Faculty  
Business and Technology Center 210  
(859) 622#1117

[www.business.eku.edu](http://www.business.eku.edu) (<http://www.business.eku.edu>)

## Vision of EKU's College of Business

Leading transformative education, preparing innovative professionals for global impact

Foundational to our vision is the motto of former EKU Professor of Accounting, Dr. Jack Dyer, "We change lives for the better." A transformative education prepares students to be innovative, creative, and entrepreneurial in their professional and personal endeavors.

Graduates enter the world with a global focus in order to serve the service region of EKU, the commonwealth of Kentucky, and global community. Developing a global focus in today's world helps develop self-awareness of one's own identity, culture, and beliefs and how to connect throughout the world. An appreciation of diverse cultures will make EKU graduates more competitive and successful globally.

The College of Business vision is to develop graduates who have a transformative impact on their communities and beyond.

## Mission of EKU's College of Business

We are a School of Opportunity developing leaders with integrity and knowledge for the global environment. Our student-centered commitment to excellence fosters an applied approach through interdisciplinary collaboration and research with students, faculty, and community. Our mission defines our purpose. We are a School of Opportunity, valuing who we include, not exclude, providing access to education in business disciplines, delivering experiences that transform students into business leaders with integrity and knowledge who are able to adapt to the changes in the global environment. Our commitment to excellence is student-centered and made possible through collaboration and research with students, faculty, and community.

## College of Business Core Values

Through connection and collaboration:

- Excellence
  - Striving for the highest standard in all we do with a spirit of innovation and entrepreneurship
- Integrity
  - Maintaining a culture of acting ethically, honestly, inclusively, and respectfully to all
- Service
  - Committed to the good we can do for others through educational opportunity and community engagement

## College of Business Core Competencies

Throughout the Business curriculum, students will be developing and building the following core competencies:

- Functions of Business - Demonstrate knowledge base and acumen in the functional areas of business with an interdisciplinary approach
- Sustainable Innovation – Apply quantitative analysis, critical thinking, and creative thinking in decision-making to design sustainable innovation.
- Interactive Communication – Communicate effectively and interactively with consideration of audience, message, and delivery
- Authentic Professional Brand – Achieve an authentic professional brand through self-development and the cultivation of emotional intelligence and a moral compass
- Systems Thinking – Recognize the impact of macro environment (global, societal, and regulatory) factors and trends

## Business

Dr. Weiling Zhuang, MBA Director

## Master's

- Master of Business Administration (MBA Experience) (p. 609)
- Online MBA Program with a Concentration in Accounting (p. 610)

- Online MBA Program with a Concentration in Community Development (p. 612)
- Online MBA Program with a Concentration in Computer Science, Artificial Intelligence in Data Science (p. 613)
- Online MBA Program with a Concentration in Computer Science, Cybersecurity and Digital Forensics (p. 615)
- Online MBA Program with a Concentration in Computer Science, Game Design (p. 616)
- Online MBA Program with a Concentration in Construction Management (p. 617)
- Online MBA Program with a Concentration in Corporate Securities Operations (p. 619)
- Online MBA Program with a Concentration in Customized (p. 620)
- Online MBA Program with a Concentration in Emergency Management and Disaster Resilience (p. 622)
- Online MBA Program with a Concentration in Manufacturing Management (p. 623)
- Online MBA Program with a Concentration in Occupational Safety (p. 624)
- Online MBA Program with a Concentration in Organizational Psychology (p. 626)
- Online MBA Program with a Concentration in Public Administration (p. 627)

## Certificate

- Foundations of Business Thought, Departmental Certificate (p. 609)
- Functions of Business, Certificate (for the Online MBA) (p. 609)
- Technical Skills of Financial and People Management, Departmental Certificate (p. 629)
- Transformation of Inputs to Outputs, Departmental Certificate (p. 629)

## Courses

### **MBA 800. MBA Bootcamp. (0 Credits)**

I. Prerequisite: Admission to MBA Program. Introduction to technical topics as well as team- and culture-building activities.

### **MBA 812. Data, Decisions & Business. (2 Credits)**

(2) I. Prerequisite or Co-requisite: MBA 800. This Course provides a foundation on developing, interpreting, and using data for business decisions. Course focuses on building data models, and utilizing them to improve decision making in a business context.

### **MBA 813. Empathic Interactive Comm. (2 Credits)**

(2) I. Prerequisite or Co-requisite: MBA 800. Develop interactive communication strategies and methods critical to business leaders through discussion, examples, and practice. Includes oral and written assignments linked to career development, and a variety of interactive communication strategies.

### **MBA 814. Big Data Analytics. (2 Credits)**

(2) I. Prerequisite: MBA 812. This Course introduces students to business application of data analytics techniques for increasing sales, identifying new customers, improving efficiencies, and automated decision making.

### **MBA 815. Intro to Design Thinking. (1 Credit)**

(1) I. Prerequisite or Co-requisite: MBA 800. This course provides an in-depth orientation to the readings, theories, and examples of design thinking.

### **MBA 822. Leading & Managing Human Cap. (2 Credits)**

(2) II. Prerequisite: MBA 812 and 815. Human capital management topics, applications, and development of personal competencies in acquiring and developing talent, recognizing and rewarding contribution, managing performance, measuring human capital outcomes, and making overall human capital strategy decisions.

### **MBA 824. Auth Leadership & Des Emp Exp. (2 Credits)**

II. Prerequisite: MBA 813, 815, and 871. Advanced study of individual and team emotion, thought, and action in the workplace with the aim of authentic leadership skillset development and effective employee experience design.

### **MBA 825. Design Thinking Applications. (1 Credit)**

(1) I. Prerequisite: MBA 815. This Course provides a unique series of immersive experiences in innovation and design thinking that prepares participants for real world innovation. Students will collaborate on projects with faculty from all disciplines and community leaders. May be repeated; Maximum of three credit hours.

### **MBA 831. Corp Entrepren Ventures. (2 Credits)**

(2) I. Prerequisite: MBA 812 and 825. The examination and practice of generating, evaluating, and implementing entrepreneurial ideas within an organization using a design thinking approach, Explores trends in corporate entrepreneurship and the impact of entrepreneurship within an organization.

### **MBA 833. Supp Chain as Driver Org Eff. (2 Credits)**

(2) i. Prerequisite: MBA 812 and 825. Enhanced exposure to essential supply chain concepts, encompassing the integration of key business processes from the end user through original suppliers that provides products, services and information that add value for customers and other stakeholders.

### **MBA 834. Enterprise Risk Mgmt. (2 Credits)**

(2) I. Prerequisite: MBA 825 and 883. This course examines the way in which business and society assess, control, and transfer risk.

### **MBA 841. Driving Strategic Impact. (2 Credits)**

(2) I. Prerequisite: MBA 822, 824, 825, 831, 833, 834, 882 or 832, and 883 or 823. The course integrates knowledge from all business disciplines in relationships of helping organizations sustain competitive advantages.

### **MBA 842. Impact Capstone. (3 Credits)**

I. Prerequisites: MBA 822, 824, 825, 831, 833, 834, 871, 881, 882, and 883. Prerequisite or Co-requisite: MBA 841. Synthesis and application of knowledge, skills, and abilities developed throughout the MBA program; students will be embedded with clients in ECU's Service Region to better understand the unique challenges and opportunities for business in Appalachia.

### **MBA 860. MBA Seminar. (1-3 Credits)**

A. Selected advanced topics in business administration. May be retaken up to 3 hours provided the topic of study is different.

### **MBA 870. Microecon and Stats for Mgrs. (3 Credits)**

Prerequisites: MBA status or instructor permission Practical business applications of microeconomic and statistical theory. Emphasis on decision making under uncertainty. Topics include: descriptive statistics, hypothesis testing, regression, optimization, demand estimation, forecasting, costs and production theory, pricing and output determination, and game theory.

### **MBA 871. Managerial Communication. (3 Credits)**

Business research and report writing, communication strategies, and oral presentations for managers.

**MBA 874. Data Analytics for Managers. (3 Credits)**

This course focuses on data analytics from a managerial perspective, including: business analytics, data management and wrangling, data visualization and summary measures, probability and distributions, statistical inference, data mining, data forecasting, and prescriptive analysis.

**MBA 875. Leading Orgs Pple & Fut of Wrk. (3 Credits)**

Fundamentals of organizational behavior and human resources: resource allocation, human enterprise, employee experience, and the future of work. Topics include: strategic decision-making, competition, workforce development, talent utilization, workplace rewards, recognition, demographics, and the gig economy.

**MBA 881. Accounting for Managers. (3 Credits)**

This course focuses on financial and managerial accounting topics and tools relevant to a manager in the context of understanding accounting information and using it effectively to make business decisions.

**MBA 882. Marketing Management. (3 Credits)**

This course is oriented toward: assessing the dynamic business environment, identifying consumers' needs, selecting the appropriate market segment, and developing marketing strategy to satisfy consumers' need and maintain firm sustainable competitive advantages.

**MBA 883. Financial Mgmt & Decision Mkg. (3 Credits)**

Prerequisite or Co-requisite: MBA 881. This course provides managers at any level with analytical tools for financial management decisions, including financial statement interpretation, financial performance evaluation, financial forecasting, growth management, corporate financing, financial markets, business valuation, and capital budgeting.

**MBA 890. Independent Study. (1-3 Credits)**

A. Opportunity for independent study of a problem/issue chosen by the student and instructor. Approved independent study proposal form required. May be retaken up to 6 hours provided topic of study is different.

**MBA 892. Special Topics in MBA: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisites: Departmental approval. For special topics related to the Business beyond the scope of regularly offered courses. May be taken to a maximum of 6 hours provided subtitle/topics vary.

**MBA 895. Integrated Decision Making. (3 Credits)**

Prerequisites: MBA870, MBA871, MBA875, MBA881, MBA882, and MBA883. This course focuses on strategic management skills and competencies. It explores why good strategic management leads to good business performance and concepts, examines tools of strategic analysis, and includes applications of methods of integrated decision-making.

## Foundations of Business Thought, Departmental Certificate

The Certificate in Foundations of Business Thought is designed to provide individuals who have a bachelor's degree with essential business management skills, including written and oral communication, persuasion, business etiquette, quantitative thinking, data analytics, and design thinking.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
MBA 800	MBA Bootcamp	0

MBA 812	Data, Decisions & Business	2
MBA 813	Empathic Interactive Comm	2
MBA 814	Big Data Analytics	2
MBA 815	Intro to Design Thinking	1
MBA 871	Managerial Communication	3
<b>Total Hours</b>		<b>10</b>

## Functions of Business, Certificate (for the Online MBA)

The Functions of Business Certificate is designed to provide individuals who have a bachelor's degree with a foundation in the functional areas of business: Accounting, Finance, Management, and Marketing.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Total Hours</b>		<b>12</b>

## Master of Business Administration (MBA Experience)

Dr. Weiling Zhuang, MBA Director

### EKU MBA Experience

EKU MBA Experience provides an innovative approach to preparing students for jobs that do not now exist. Through an applied integrated curriculum, students expand their knowledge of all functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level. We seek to:

- Educate leaders who will make a difference
- Conduct research that informs and improves business, business education, and society
- Graduate empathic, discerning students who are ready to make an impact

### Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of "B" or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

### The EKU MBA Experience

The MBA Experience consists of a Bootcamp, 15 courses, and four seminars. Bootcamp is required of all students entering the MBA Experience prior to the start of coursework. This will be a time to review/develop foundational knowledge needed to begin coursework

as well as to build cohesiveness among the entering cohort. It replaces prerequisites that are part of many MBA programs.

The MBA Experience is designed to take four terms to complete. It provides an interdisciplinary curriculum leading to the development of knowledge, skills, and abilities demanded of MBA graduates. The MBA Experience has been designed in such a way that courses required for a competency to be gained are grouped together by term. This allows for the first three terms of the program to each offer a Certificate (nine credit hours) upon completion of the courses included in that term. With stackable certificates, students have the option of completing a single certificate, multiple certificates, or the entire MBA degree.

MBA courses are designed to be eight weeks intensive (during fall and spring terms) and two credit hours.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the EKU MBA Experience, the capstone course is MBA 842 Impact Capstone.

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor's degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** — Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** — Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

CIP Code: 52.0101

Code	Title	Hours
<b>Major Requirements</b>		
MBA 800	MBA Bootcamp	0
<i>Certificate 1: Foundations of Business Thought</i>		
MBA 871	Managerial Communication	3
MBA 812	Data, Decisions & Business	2
MBA 813	Empathic Interactive Comm	2
MBA 814	Big Data Analytics	2
MBA 815	Intro to Design Thinking	1
<i>Certificate 2: Technical Skills of Financial and People Management</i>		
MBA 881	Accounting for Managers	3
MBA 822	Leading & Managing Human Cap	2
MBA 883	Financial Mgmt & Decision Mkg	3
MBA 824	Auth Leadership & Des Emp Exp	2
<i>Certificate 3: Transformation of Inputs to Outputs</i>		
MBA 831	Corp Entrepren Ventures	2
MBA 882	Marketing Management	3
MBA 833	Supp Chain as Driver Org Eff	2
MBA 834	Enterprise Risk Mgmt	2
<i>Completion of MBA Degree</i>		
MBA 841	Driving Strategic Impact	2
MBA 842	Impact Capstone	3
MBA 825	Design Thinking Applications	1
MBA Approved Elective		3
<b>Total Hours</b>		<b>38</b>

## Online MBA Program with a Concentration in Accounting MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude

- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making.

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
	Required if Statistics and Microeconomics do not appear in undergraduate transcript.	0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
	Students must select one of the following Concentrations:	9
	Accounting	
	Manufacturing Management	
	Construction Management	
	Organizational Psychology	
	Public Administration	
	Community Development	

Emergency Management & Disaster Resilience	
Corporate Securities Operations	
Occupational Safety	
Computer Science, Game Design	
Computer Science, Cybersecurity and Digital Forensics	
Computer Science, Artificial Intelligence in Data Science	
Customized Concentration	
<b>Total Hours</b>	<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three of the following:		9
ACC 721	Government and Not-For-Profit Accounting	
ACC 723	Taxation of Corporations	
ACC 725	Forensic Accounting	
ACC 727	Adv. Mgmt. Accting. Seminar	
<b>Total Hours</b>		<b>9</b>

# Online MBA Program with a Concentration in Community Development

## MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a

maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
Required if Statistics and Microeconomics do not appear in undergraduate transcript.		0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three of the following:		9
POL 835	Sem Intergovernmental Relation	
POL 845	Community Development	
POL 846	Non-Profit Organizations	
POL 847	Grant Writing	
<b>Total Hours</b>		<b>9</b>

## Online MBA Program with a Concentration in Computer Science, Artificial Intelligence in Data Science MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit

and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** — Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** — All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** — Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** — Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms.

These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
	Required if Statistics and Microeconomics do not appear in undergraduate transcript.	0-3
	MBA 370	
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
	Students must select one of the following Concentrations:	9
	Accounting	
	Manufacturing Management	
	Construction Management	
	Organizational Psychology	
	Public Administration	
	Community Development	
	Emergency Management & Disaster Resilience	
	Corporate Securities Operations	
	Occupational Safety	
	Computer Science, Game Design	
	Computer Science, Cybersecurity and Digital Forensics	
	Computer Science, Artificial Intelligence in Data Science	
	Customized Concentration	
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Available only to MBA students whose undergraduate degree includes two programming courses equivalent to CSC 190 Object- Oriented Programming I and CSC 191 Object- Oriented Programming II with a C or higher.

Code	Title	Hours
<b>Concentration Courses</b>		
	Choose from three of the following:	9
CSC 746	Artificial Intelligence	
CSC 781	Machine Learning	
CSC 782	Big Data	

CSC 783 Data Visualization

Total Hours

9

## Online MBA Program with a Concentration in Computer Science, Cybersecurity and Digital Forensics MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

### Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any

course for which they have previously received credit under a cross listed prefix.

### Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

### Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

### Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

### Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
Required if Statistics and Microeconomics do not appear in undergraduate transcript.		0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Available only to MBA students whose undergraduate degree includes two programming courses equivalent to CSC 190 Object- Oriented Programming I and CSC 191 Object- Oriented Programming II with a C or higher.

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three of the following:		9
CSC 736	Incident Response I	
CSC 737	Incident Response II	
CSC 744	Database Admin and Security	
CSC 747	Network Forensics & Invest	
or INF 718	Principles of Cybersecurity	
<b>Total Hours</b>		<b>9</b>

## Online MBA Program with a Concentration in Computer Science, Game Design

### MBA (Online)

The ECU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the ECU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

### Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** — All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** — Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** — Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
Required if Statistics and Microeconomics do not appear in undergraduate transcript.		0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three of the following:		9
INF 711	Princ of Game Des and Gam Theo	
INF 712	Game Production and Publicatio	
INF 713	Online Game and App Design	
INF 715	Special Topics in Gaming:_____	
<b>Total Hours</b>		<b>9</b>

## Online MBA Program with a Concentration in Construction Management

### MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience,

the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
	Required if Statistics and Microeconomics do not appear in undergraduate transcript.	0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3

MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
CON 827	New Construction Entity	3
CON 828	LEED Principles & Procedures	3
CON 829	Construction Portfolio Mgmt.	3
<b>Total Hours</b>		<b>9</b>

# Online MBA Program with a Concentration in Corporate Securities Operations

## MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing,

spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
	Required if Statistics and Microeconomics do not appear in undergraduate transcript.	0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
	Students must select one of the following Concentrations:	9
	Accounting	
	Manufacturing Management	
	Construction Management	
	Organizational Psychology	

Public Administration	
Community Development	
Emergency Management & Disaster Resilience	
Corporate Securities Operations	
Occupational Safety	
Computer Science, Game Design	
Computer Science, Cybersecurity and Digital Forensics	
Computer Science, Artificial Intelligence in Data Science	
Customized Concentration	
<b>Total Hours</b>	<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
	Choose from three of the following:	9
HLS 810	Infrastructure Protec and Risk	
HLS 820	Security Intelligence	
HLS 850	Foundations of Cybersecurity M	
SSE 827	Issues in Security Management	
<b>Total Hours</b>		<b>9</b>

## Online MBA Program with a Concentration in Customized MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a

maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
Required if Statistics and Microeconomics do not appear in undergraduate transcript.		0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from nine hours of courses selected from available graduate courses, developed in consultation with and approval of academic advisor		9
<b>Total Hours</b>		<b>9</b>

# Online MBA Program with a Concentration in Emergency Management and Disaster Resilience MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate

level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE

scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
Required if Statistics and Microeconomics do not appear in undergraduate transcript.		0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three of the following:		9
HLS 810	Infrastructure Protec and Risk	
HLS 830	Long-Term Disaster Resilience	
HLS 831	Unconventional Threats and Res	
HLS 835	Intergov Rltns in Disaster Mgt	
<b>Total Hours</b>		<b>9</b>

# Online MBA Program with a Concentration in Manufacturing Management

## MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** — All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** — Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** — Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
Required if Statistics and Microeconomics do not appear in undergraduate transcript.		0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 706	Six Sigma Quality	3
AEM 802	Product Assess & Analysis	3
AEM 805	Operations Research	3
<b>Total Hours</b>		<b>9</b>

## Online MBA Program with a Concentration in Occupational Safety MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce

organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

## Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
	Required if Statistics and Microeconomics do not appear in undergraduate transcript.	0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3

Capstone		
MBA 895	Integrated Decision Making	3
Concentrations		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three of the following:		9
SSE 828	Industrial Safety Management	
SSE 832	Construction Safety	
SSE 834	Corporate Compliance	
SSE 845	Personal/Environmental Hazards	
<b>Total Hours</b>		<b>9</b>

## Online MBA Program with a Concentration in Organizational Psychology MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

### Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work

- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** – The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** – Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

### Program Requirements

**Probation and Progress in the Program** – All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

### Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

### Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** – Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT

verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** – Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

### Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
	Required if Statistics and Microeconomics do not appear in undergraduate transcript.	0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
MBA 881	Accounting for Managers	3
MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
	Students must select one of the following Concentrations:	9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		

Occupational Safety	
Computer Science, Game Design	
Computer Science, Cybersecurity and Digital Forensics	
Computer Science, Artificial Intelligence in Data Science	
Customized Concentration	
<b>Total Hours</b>	<b>30-33</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
	Choose from three of the following:	9
PSY 804	Introduction to I-O Psychology	
PSY 807	Work Analysis	
PSY 873	Organizational Psychology	
PSY 874	Organization Change and Dev	
<b>Total Hours</b>		<b>9</b>

## Online MBA Program with a Concentration in Public Administration MBA (Online)

The EKU MBA provides a more traditional curriculum that provides foundational business courses, combined with concentrations that allow students to pursue more individualized curriculum that is related to their career goals, backgrounds, and interests. Like the EKU MBA Experience, the program provides an innovative approach to preparing students for jobs that do not now exist. Students expand their knowledge of functional areas of business. The mission of the MBA program is to produce organizational leaders who are prepared to contribute successfully to any industry, organization, department, or situation – at any level.

### Expectations

In addition to course related knowledge and skills, we expect in both the online MBA and the primarily face-to-face programs, that our students will demonstrate the following workplace values:

- Strong Work Ethic
- Reliability
- Positive Attitude
- Commitment to Quality Work
- Adaptability
- Personal Integrity
- Respect and Empathy for Others
- Self-Motivation
- Resourcefulness
- Commitment to Grow and Learn
- Poise and Self-Confidence
- Professionalism

Upon written petition, subject to approval by the Dean of the Graduate School and the Director of the MBA Program, students may transfer a maximum of six semester hours of acceptable graduate level work from other AACSB-International accredited institutions.

The maximum course load for MBA students normally is nine semester hours. Students who have full-time employment are discouraged from taking more than six semester hours.

**Graduate Course Credit** — The required elective for the MBA program can be an approved 800-level course or an approved 700-level course. All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

**Cross Listed Courses** — Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Program Requirements

**Probation and Progress in the Program** — All MBA students must achieve grades of “B” or better in all MBA coursework. Students who fail to meet this requirement are subject to dismissal. Students who wish to appeal their dismissal must do so within one year of the date of notification of dismissal. Reinstatement in the graduate program will be permitted only with the recommendation of the advisor, the MBA program coordinator, and approval by the Graduate Dean.

## Exit Requirements

The Exit Requirements for the program are fulfilled through successful completion of the capstone course. For the online MBA, the capstone course is MBA 895 Integrated Decision Making .

## Admission Requirements

Minimum requirements for clear (unrestricted) admission to the Master of Business Administration program are as follows: Applicants must (1) hold a bachelor’s degree from a regionally accredited institution with a minimum overall undergraduate grade point average (UGPA) of 2.75

**Expected Competencies** — Applicants are expected to have sufficient background to function effectively in graduate courses that require computer-related knowledge or skills. Proficiency in word processing, spreadsheets, database management, and computer applications as well as knowledge of grounding in ethical behavior are assumed.

In addition, the assumption is made that all applicants can demonstrate proficiency in spoken and written communication. On the basis of GMAT verbal scores, interviews, samples of written work, or other appropriate indicators of speaking and writing proficiency, MBA applicants may be required as a precondition for admission to satisfactorily complete courses or tutorial experiences designed to enhance their communication skills.

**International Students** — Applications from international students are encouraged. In addition to the requirements listed above, applicants must meet the English Language Proficiency requirement by submitting acceptable test scores on the TOEFL or IELTS examinations. Refer to the University admission guidelines for admitting international students.

## Application Procedures

The application process for both the EKU MBA Experience and the online MBA begins with the Graduate School. Information for domestic students

is available at <https://gradschool.eku.edu/domestic-students> (<https://gradschool.eku.edu/domestic-students/>). International students can find admission guidelines at [https://gradschool.eku.edu/Intl\\_students](https://gradschool.eku.edu/Intl_students) ([https://gradschool.eku.edu/Intl\\_students/](https://gradschool.eku.edu/Intl_students/)).

In both cases, as part of the application process, you will be directed to provide the following: an updated résumé, all unofficial undergraduate transcript(s), a personal statement, and two recommendation forms. These materials are submitted through the Graduate School portal, along with any other materials required by the Graduate School. Official GRE scores, if required by the Graduate School, must be received from the testing agency. Request that your scores be sent to EKU.

TOEFL or IELTS scores are required for all international students without a recent undergraduate degree from countries where English is the official language.

## Program Requirements

Code	Title	Hours
<b>Major Requirements</b>		
<i>College Requirements</i>		
Required if Statistics and Microeconomics do not appear in undergraduate transcript.		0-3
MBA 370		
<b>Core Courses</b>		
MBA 871	Managerial Communication	3
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MBA 882	Marketing Management	3
MBA 874	Data Analytics for Managers	3
MBA 875	Leading Orgs Pple & Fut of Wrk	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Capstone</b>		
MBA 895	Integrated Decision Making	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Accounting		
Manufacturing Management		
Construction Management		
Organizational Psychology		
Public Administration		
Community Development		
Emergency Management & Disaster Resilience		
Corporate Securities Operations		
Occupational Safety		
Computer Science, Game Design		
Computer Science, Cybersecurity and Digital Forensics		
Computer Science, Artificial Intelligence in Data Science		
Customized Concentration		
<b>Total Hours</b>		<b>30-33</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three of the following:		9
POL 801	Admin, Ethics, Public Policy	

POL 874	Public Sector Leadership
POL 875	Organization Theory
POL 876	Public Human Resources Mngt
POL 877	Public Finance Administration
POL 879	Policy Analysis and Evaluation

**Total Hours** 9

## Technical Skills of Financial and People Management, Departmental Certificate

The Certificate in Technical Skills of Financial and People Management is designed to build upon the MBA Certificate in Foundations of Business Thought with additional essential business management skills, including using accounting information for decision making, managing human resources, financial management, organizational behavior, and design thinking.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
MBA 822	Leading & Managing Human Cap	2
MBA 824	Auth Leadership & Des Emp Exp	2
MBA 881	Accounting for Managers	3
MBA 883	Financial Mgmt & Decision Mkg	3
<b>Total Hours</b>		<b>10</b>

## Transformation of Inputs to Outputs, Departmental Certificate

The Certificate in Transformation of Inputs to Outputs builds upon MBA Certificates in Foundations of Business thought and Technical Skills of Financial and People Management with additional business management skills, including entrepreneurial thinking, marketing management, supply chain and logistics, enterprise risk management, and design thinking.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
MBA 825	Design Thinking Applications	1
MBA 831	Corp Entrepren Ventures	2
MBA 833	Supp Chain as Driver Org Eff	2
MBA 834	Enterprise Risk Mgmt	2
MBA 882	Marketing Management	3
<b>Total Hours</b>		<b>10</b>

## College of Education and Applied Human Sciences

Dr. Gill G. Hunter, Interim Dean  
Combs 420  
gill.hunter@eku.edu  
(859) 622-3515

Dr. Dana Keller Bush, Associate Dean  
dana.bush@eku.edu  
Combs 407  
(859) 622-5063

www.coe.eku.edu (<http://www.coe.eku.edu>)

## General Information

Eastern Kentucky University has maintained a strong interest in and commitment to the preparation of teachers since its founding in 1906 and is dedicated to the preparation of teachers who function effectively in a culturally diverse society in order to meet the needs of all candidates.

The College of Education and Applied Human Sciences, in cooperation with the office of Education and Research, offers the Masters of Arts in Education degree programs for elementary teachers, middle grade teachers, secondary teachers, gifted teachers and coordinators, special education teachers, school counselors, school librarians, speech-language pathologists, and instructional leaders.

Other graduate programs include a Master of Arts in Teaching: Deaf and Hard of Hearing Education, Elementary Education, Interdisciplinary Early Childhood Education, Middle Grade Education, Secondary Education and P-12 programs; a sixth year program leading to Rank I certification; preparation for professional certification in Deaf and Hard of Hearing, Interdisciplinary Early Childhood Education, Learning and Behavior Disorders, and Moderate and Severe Disabilities; endorsements in gifted education, English as a Second Language, literacy specialist, and teacher leader; professional certification preparation for School Principal, School District Supervisor of Instruction, School District Administrator of Pupil Personnel Services, and School Superintendent; the Master of Arts degree in Mental Health Counseling and Communication Disorders; the Specialist in Education degree in Educational Administration and Supervision, the Masters of Arts degree in Student Personnel Services in Higher Education, and the Doctor of Education Degree in Leadership and Policy Studies.

### PRAXIS Examination

Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements. Refer to DegreeWorks for exam details. Effective Spring 2018, the PRAXIS exam must be taken prior to student teaching.

## Master of Arts in Education (M.A.Ed.) and Master of Arts in Teaching (MAT) Program Requirements

Specific curricula and requirements for the Master of Arts in Education and Master of Arts in Teaching degree programs are provided in the College of Education and Applied Human Sciences individual program sections of this catalog.

**Program Planning** — During the first term, the candidate must develop a planned program. Subsequent changes of the program plan are permissible, but must be approved on the appropriate form by the advisor, the department chair, the college dean, and the graduate dean.

**Transfer Credits** — Candidates for the Master of Arts in Education degree are restricted to transfer of not more than twelve semester hours.

## Department of Clinical Therapeutic Programs

Dr. Kellie C. Ellis, Chair  
Wallace 245  
(859) 622-1125

Dr. James McGinn, Counselor Education Program Coordinator

Dr. Jade Robinson, Communication Sciences and Disorders Program Coordinator

Dr. Gregory Sandman, Counselor Education Clinical Coordinator

The Department of Clinical Therapeutic Programs offers graduate degrees in Clinical Mental Health Counseling, School Counseling, and Communication Disorders. The Master's of Arts (M.A.) in Clinical Mental Health Counseling and Master's of Arts in Education (M.A.Ed) in School Counseling are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The Master's of Arts (M.A.) education program in speech-language pathology is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language Hearing Association. M.A.

### Counselor Education

#### General Information

The Counselor Education Program offers degree and non-degree graduate programs in School and Clinical Mental Health Counseling.

This unit also provides graduate instruction in the common core areas required of many Master's degree programs in education and related fields, such as human development and learning, tests and measurement, and research. More complete information concerning the counseling programs can be reviewed by accessing the Counselor Education website at [coecounseling.eku.edu/](http://coecounseling.eku.edu/) (<http://coecounseling.eku.edu/>)

#### Counselor Education

The Counselor Education program area offers graduate programs in school counseling and mental health counseling. The Clinical Mental Health Counseling and School Counseling Programs are nationally accredited by CACREP. The School Counseling Program meets curriculum standards of the Kentucky Department of Education, and the Clinical Mental Health Counseling program prepares students to apply for licensure.

#### Counselor Education Program Descriptions

The Clinical Mental Health Counseling program prepares professional counselors to work in a variety of mental health settings, such as comprehensive care centers, regional mental health centers, hospitals, and other settings in which mental health services are provided.

The School Counseling program prepares individuals to become school counselors. The Provisional School Counseling Certificate will be awarded by the EPSB upon completion of the 48-hour degree. The School Counseling Certification earned will be at the P-12 level. Rank II may be earned at the completion of the first 33 hours in the program for teacher certified school counselors working on the MAED in School Counseling. Standard certificate in School Counseling can be earned with six (6) additional semester hours beyond the forty-eight (48) hour Masters of Arts in Education in School Counseling degree with either 1 year of successful school counseling experience (if candidate is a certified

teacher) or two years of successful experience without a teaching degree and experience. A total of 60 graduate hours in a planned program in school counseling that includes the hours for the Masters and Rank I programs in school counseling may also be used toward the Rank I sixty (60) hour certification.

### Exit Requirements

The following are the exit requirements for all concentrations either of the Master of Arts in Education or the Master of Arts. There are no exit requirements for the Kentucky Rank I and Rank II classifications or for the additional certifications or endorsements such as the Standard Certificate in School Counseling or the Individual Intellectual Assessment Endorsement.

**Comprehensive Examinations** – The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering education and major program components. For the Masters of Arts in Mental Health Counseling and School Counseling, candidates must successfully pass a comprehensive examination selected by the department that may include the Counselor Preparation Comprehensive Examination (CPCE), a national examination.

### Doctoral

- Doctor of Education with a Concentration in Curriculum Leadership for Social Justice (Ed.D.) (p. 639)
- Doctor of Education with a Concentration in Leadership, Policy Studies, and Social Justice (Ed.D.) (p. 641)

### Specialist

- Educational Administration and Supervision, Specialist in Education (Ed.S.) (p. 642)

### Master's

- Clinical Mental Health Counseling, Master of Arts (M.A.) (p. 637)
- Communication Disorders, Master of Arts (M.A.) (p. 638)
- School Counseling, Master of Arts in Education (M.A.Ed.) (p. 643)
- School Leadership, Master of Arts in Education (M.A.Ed.) (p. 644)

### Non-Degree

- Certification Preparation Program (p. 637)
- Elementary Education Counselor Seeking Secondary School Counseling Endorsement Preparation Program (p. 643)
- Secondary School Counselor Seeking Elementary School Counseling Endorsement Preparation Program (p. 645)

### Courses

#### Communication Sciences & Disorders

##### CSD 720. Augment & Alternat Comm System. (3 Credits)

I. An overview of various approaches to aided non-oral systems of communication. Various devices and symbol systems will be discussed.

##### CSD 725. Literate Language. (3 Credits)

I. Formerly CDS 725. Prerequisites: admission to CDS program or by departmental approval. Study of language disorders in children and principles for remediation in written language.

**CSD 741. School Services in Comm Dis. (3 Credits)**

I, II. Formerly CDS 741. Prerequisites: Overall 3.0 GPA and Admission to the CDS program, or departmental approval. Organization and management of speech-language therapy services in the schools. (Lec/Lab). Minimum of 27 field/clinical experience required.

**CSD 771. Neural Bases of Communication. (3 Credits)**

I. Prerequisite: admission to the CDS program or instructor approval. A study of neuroanatomic and neurophysiologic bases of communication including developmental issues and neurologic deficits resulting in communication disorders.

**CSD 772. Speech and Hearing Science. (3 Credits)**

II. Formerly CDS 772. Prerequisite: admission to the CDS program or instructor approval. Study of the physics of sound, acoustic characteristics and processes, perceptual correlates, production of speech, and psychophysical processes of communication. Software applications and instrumentation are also covered.

**CSD 830. Counseling in Speech-Lang Path. (3 Credits)**

A. Prerequisite: Admission to CD program or departmental approval. Overview of the therapeutic relationship between individuals with disabilities, their families, and professionals. Emphasis on applying empathetic listening, interviewing skills, and change process.

**CSD 861. Comm Dis in Atypical Pop.. (3 Credits)**

A. Prerequisite: admission to communication disorders and sciences program or by departmental permission. An overview of associated speech, language, or hearing problems commonly identified in atypical or special populations that may be encountered by the speech-language pathologist.

**CSD 863. Motor Speech Disorders. (3 Credits)**

II. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Study of the neurophysiology, assessment, and treatment of various motor speech disorders, including dysarthria and apraxia.

**CSD 867. Advanced Language Disorders. (3 Credits)**

A. Formerly CDS 867. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Advanced study of formal and informal assessment and treatment approaches in child language without consideration of etiology. Emphasis on collaboration within the classroom, language and narrative sampling analysis techniques and use of language within the natural context. Minimum of eight hours field/clinical experience required.

**CSD 870. Prof Issues in Comm Disorders. (3 Credits)**

A. Formerly CDS 870. Prerequisite: admission to communication disorders and sciences program or by departmental permission. Scope of practice, professional Code of Ethics, trends in service delivery, pertinent legislation, legal concerns, and other issues which impact the field of communication disorders will be examined.

**CSD 873. Adv. Artic. & Phono. Disorders. (3 Credits)**

I. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Study of the research and principles associated with symptomatology, etiology, diagnosis, and treatment of articulation and phonological disorders. Issues related to accent enhancement and modification, including assessment and intervention are explored. Minimum of three hours field/clinical experience required.

**CSD 874. Grad Pract: Speech-Lang Path. (3 Credits)**

A. Formerly CDS 874. Prerequisite: admission to communication disorders and sciences program or by departmental permission. Supervised clinical practice in speech-language pathology. Must be retaken for a total of nine hours for the MA degree. Minimum of 145 field/clinical experience hours required across three semesters.

**CSD 875. Adult Neuro. Lang. Disorders. (3 Credits)**

II. Formerly CDS 875. The study of the neurophysiological bases of aphasia classification systems, evaluation procedures, and treatment strategies.

**CSD 876. Advanced Voice Disorders. (3 Credits)**

I. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Study of the research and bases of laryngeal phonation deviation, including etiology, diagnosis, and treatment of functional and organic voice disorders; assessment and use of clinical techniques with a variety of voice disorders. Minimum of three field/clinical experience hours required.

**CSD 877. Advanced Fluency Disorders. (3 Credits)**

II. Formerly CDS 877. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Critical study of research literature on etiology, theory, assessment and intervention strategies for preschool, school age, and adult fluency disorders. Minimum of two field/clinical experiences required.

**CSD 878. Diagnosis of Comm Disorders. (3 Credits)**

I. Prerequisite: admission to communication disorders and sciences program or by departmental permission. Diagnosis of language and speech disorders with emphasis on the use of dynamic assessment and comprehensive test batteries to describe the communication skills of children and adults. Profile analysis will be utilized to determine relative strength and weakness. Minimum of 10 hours field/clinical experiences required.

**CSD 879. Dysphagia. (3 Credits)**

II. Formerly CDS 879. Prerequisite: admission to communication disorders and sciences program or by departmental permission. An introduction to dysphagia, including the anatomy, physiology, and development of normal swallowing, and evaluation, etiologies, and treatment of dysphagia. Minimum of five field/clinical experience hours required.

**CSD 880. Research Methodology Comm Dis. (3 Credits)**

I. Formerly CDS 880. Prerequisites: admission to MAEd communication disorders program; or by departmental permission. Corequisite: CDS 878. Critical examination of research methodology in communication disorders and sciences. Students acquire the fundamental motivation, knowledge, and skills for conducting clinical and basic science research and for reading and critically evaluating research literature.

**CSD 885. Cognitive Rehabilitation. (3 Credits)**

A. Formerly CDS 885. Prerequisites: admission to communication disorders and sciences program and CSD 571 or 771 or by departmental permission. Study of the neurophysiological, cognitive, neuropsychological, and social/emotional issues associated with traumatic brain injury in children and adults, including principles of linguistic/cognitive assessment and intervention.

**CSD 895. Special Topics in CD. (3 Credits)**

Formerly CDS 895. Prerequisite: Department approval. Advanced study of various concepts, methods and materials in communication disorders. Topics may vary. Material will be taught using a combination of lecture, discussion and experiential learning.

**CSD 897. School Experiences in CD. (6 Credits)**

I,II. Formerly CDS 897. Prerequisites: CDS874 (9 credit hours), completion of CD core courses and admission to student teaching. Supervised 12-week, full-time clinical practice with a variety of communication disorders in selected school settings for a minimum of 70 school days. For CDS graduate seeking certificate in speech-language pathology.

**CSD 898. Externship in Comm Disorders. (6 Credits)**

I. Formerly CDS 898. Prerequisites: CDS 874 (nine credit hours) and completion of graduate core course work in communication disorders and sciences. Supervised 12-week, full-time clinical practice with a variety of communication disorders in selected externship sites.

**CSD 899. Research Project/Thesis Option. (3 Credits)**

II. Formerly CDS 899. Prerequisite: CDS 880 or instructor approval. Completion of a research project related to a special population that may lead to a thesis and/or to a professional presentation and publishable paper. May be retaken to a maximum of 9 credit hours. Credit not awarded for both SED 899 and CDS 899.

**Counseling****COU 803. Prin & Prac of Mental Hlth Cou. (3 Credits)**

I. Prerequisites: COU 840. Includes programs of mental health counseling and consultation, the development and management of mental health services programs, needs assessments, intervention and evaluation.

**COU 804. Counseling Diverse Populations. (3 Credits)**

I, II. Prerequisites: COU 813, 840, 846. An examination of the application of counseling methods and concepts to non-majority groups. The lifestyle, values, customs and attitudes of non-majority population will be explored.

**COU 807. Counseling: \_\_\_\_\_ (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Workshops, special topics, or seminars. May be retaken under different subtitles.

**COU 813. Prof Orient & Ethics in Counse. (3 Credits)**

I, II. Prerequisite: admission to the program. An introduction and orientation to the counseling profession. This course will explore the professional roles, organization, training, and credentialing standards of the profession. It will also survey the ethical, legal and professional issues facing counselors.

**COU 814. Admin & Cnslttn in Cnslng Srvc. (3 Credits)**

I. Prerequisites: COU 813, 840, 846. Consideration of theory, organization, consultation and personnel practices involved in organizing and administering guidance and counseling programs in the schools.

**COU 820. Group Counseling. (3 Credits)**

I, II. Prerequisites: COU 813, 840, 846. Theory and experiences to develop skill in and understanding of group dynamics and effective group behavior.

**COU 822. Lifestyle & Career Counseling. (3 Credits)**

I, II. Prerequisites: COU 813, 840, 846. Occupational information in educational and vocational planning; theories of vocational choice; sociology of occupations, and interpretation and utilization of current data pertaining to career fields.

**COU 825. Dvlpmntl COU w/ Schl Age Child. (3 Credits)**

A, II. Prerequisites: COU 813, 840, 846. Student will learn how to design and implement a systematic K-12 developmental guidance program based on collaboration, consultation, and prevention as well as develop creative and play therapy approaches to working with children and adolescents.

**COU 826. Assessment in Counseling. (3 Credits)**

I. Prerequisites: EPY 816, 839, COU 855, and departmental approval. Consideration of the major theories of assessment. Training in the administration, scoring, and interpretation of selected tests of intelligence and other counseling assessment tools.

**COU 827. Indiv Assess. of Intelligence. (3 Credits)**

I. Prerequisite: COU 826. Supervised practice in the administration, scoring, and interpretation of the Wechsler Intelligence Scale for Children, Wechsler Adult Intelligence Scale, and the Wechsler Preschool and Primary Scale of Intelligence.

**COU 840. Counseling Theory and Practice. (3 Credits)**

I, II. Prerequisite/Corequisite: COU 813. Major theories of counseling. Attention is given to personality structure and individual behavior from which these are derived.

**COU 846. Process and Basic Tech Counsel. (3 Credits)**

I, II. Prerequisites/Corequisites: COU 813, 840. Includes a consideration of different schools of thought in current counseling practice; how the counselor works; and effective procedures for counseling.

**COU 847. Crisis and Abuse Counseling. (3 Credits)**

A. Prerequisites: COU 813, 840, 846. This is an advanced counseling techniques class focusing on the process and skills in crisis and abuse counseling, as well as legal, ethical, and advocacy issues.

**COU 848. Child & Adolescent Counseling. (3 Credits)**

A. Prerequisites: COU 813, 840, 846. This is an advanced counseling techniques class focusing on specific skills and processes for children and adolescents.

**COU 849. Addiction Disorders Counseling. (3 Credits)**

I. Prerequisites: COU813, 840, and COU846. Addictive disorders and behaviors ranging from chemical dependency, compulsive gambling, sex addiction to workaholism with a focus on biopsychosocial model, 12-Step and peer therapy, assessments, and interventions for adolescent and adult populations.

**COU 850. Family Counseling. (3 Credits)**

A. Prerequisites: COU 813, 840, 846. The history, terms, ethics, principles, and major models of family counseling concepts, techniques and procedures will also be examined, with primary focus on the systems approach.

**COU 853. Cou Process/Clinical Sexuality. (3 Credits)**

A. This is an advanced skills course that will teach theoretical and skill-based clinical sexuality intervention and treatment models to work with clients. Students will explore professional issues in the field, including diversity issues related to clinical sexuality.

**COU 855. Diagnosis & Treatment Counsel. (3 Credits)**

A. Prerequisites: COU 813, 840, 846. This course addresses diagnoses and treatment planning in counseling as well as prevention of mental and emotional disorders and dysfunctional behavior. Credit will not be awarded to students who have credit for PSY 841.

**COU 856. Pract in Intellect Assessment. (3 Credits)**

A, II. Prerequisites: COU 826, 827. Advanced laboratory practice in giving tests and interpreting results. Attention given to intelligence tests, measurements of special aptitudes, inventories for self-appraisal, and measure of personality.

**COU 863. Crisis and Grief Counseling. (3 Credits)**

A. Prerequisite: COU 813, 840, 846. An advanced counseling techniques class focusing on the process and skills need in crisis and grief counseling.

**COU 865. Mindfulness Pract Couns & Clie. (3 Credits)**

A. Instruction in mindfulness-based practices in counseling for use with clients and for counselor self-care. Review of current theory and research as well as experiential components including movement, meditation, breathing exercises, and guided imagery.

**COU 870. Intro to Play Therapy. (3 Credits)**

(3). A. Prerequisites: EPY 839, COU 813, COU 840, COU 846. This course discusses understanding the person of the therapist, playroom and materials, theories, history, process, techniques, relationship building, themes, parent involvement, ethics and experiential practice of play therapy with children and adults.

**COU 871. Advanced Play Therapy. (3 Credits)**

(3) A. Prerequisite: COU 870. Includes research, advanced theory, play therapy practice and skill development with various populations across the life span.

**COU 872. Practicum in Play Therapy. (3 Credits)**

(3) A. Prerequisite: COU871. Includes personal and professional development of the Play Therapist through practical application of Play Therapy theories, techniques and skills.

**COU 875. Adventure Based Counseling. (3 Credits)**

A. Prerequisite: Admission to the Doctoral program. Recommended prerequisite: completion of COU 820 – Group Counseling. Course includes study, experience, and practice of adventure-based counseling to prepare participants to facilitate adventure-based activities.

**COU 880. Counseling Practicum:\_\_\_\_\_. (0.5-3 Credits)**

(.5-3)A. Prerequisite: Clinical coordinator approval. This course provides students the opportunity to practice skills developed in their program. Students will be supervised by an experienced counselor in a setting appropriate for their program. May be taken under different setting titles up to 12 hours.

**COU 881. Internship in Counseling:\_\_\_\_. (0.5-6 Credits)**

(.5-6) A. Prerequisite COU 880. Practice in a counseling setting which allows for the transition from student to professional. May be taken for up to 15 credit hours in order to generate the required clock hours.

**COU 885. Clinical Supervision of COU. (3 Credits)**

(3) A. Prerequisite: COU 880. Provides counseling students with knowledge of fundamental issues in clinical supervision including the role and function of supervision; models and theories; diversity issues; legal and ethical considerations.

**COU 886. Advanced Clinical Supervision. (3 Credits)**

(3) A. Prerequisite: Admission to the CEP doctoral program. Advanced, integrative study of theories, models, and current issues in clinical supervision.

**COU 887. Supervision of Counseling Prac. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. Supervised practice of supervision of master's level practicum students.

**COU 891. Advanced Counseling Theories. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. An examination of the theoretical foundations of counseling theory construction. Credit will not be awarded to students who have credit for COU 901.

**COU 892. Leadership & Social Justice Adv. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. Orientation to leadership styles and issues relevant to counselor education and advanced application of social justice advocacy in counselor education. Credit will not be awarded to students who have credit for COU 909.

**COU 893. Scholarship and Pub in COU Ed. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. The planning and execution of scholarly writing and professional conference presentations in counselor education. Credit will not be awarded to students who have credit for COU 910.

**COU 894. Teaching in Counselor Ed. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. Pedagogical foundations of course development and classroom instruction in counselor education. Credit will not be awarded to students who have credit for COU 910.

**COU 895. Advanced Clinical Supervision. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. Advanced, integrative study of theories, models, and current issues in clinical supervision. Credit will not be awarded to students who have credit for COU 986.

**COU 900. Advanced Counseling Theories. (3 Credits)**

A. This course provides advanced instruction in the major and/or contemporary counseling theories. Students will apply the original works of major theorists and will assess and construct a personal counseling orientation as backed by research.

**COU 902. Advanced Group Counseling. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. (3 hours) Theoretical foundations of advanced group counseling (includes supervised experiential component via facilitation of master's level groups for in COU 820 course).

**COU 903. Adv Issues in Clin Mental Heal. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. Current topical issues, related to advanced counseling practice and counselor education.

**COU 904. Advanced Issues in School Coun. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. Current topical issues related to advanced school counseling, school leadership, and counselor education.

**COU 905. Sem in Rural/Appalachian Issue. (3 Credits)**

A. This course is an advanced application course of the field of marriage and family counseling/therapy. Students will apply family counseling techniques to case studies and real families.

**COU 906. Counseling: Adv Supervision. (3 Credits)**

A. Students will have the opportunity to refine their skills and enhance their understanding of clinical and administrative supervision in terms of various theoretical orientations and approaches to the art of supervision in counseling.

**COU 907. Counseling: Adv Practicum. (3 Credits)**

This course observation and counseling supervision in school, higher education, community, and controlled laboratory settings. One hundred hours of supervised fieldwork is required. Lectures, seminars, and research projects may also be included.

**COU 908. Counseling: Adv Internship. (3 Credits)**

A. Doctoral students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours include supervised experiences in counselor education and supervision (e.g., clinical practice, research, and teaching).

**COU 912. Research Issues Counselor Ed. (3 Credits)**

This course deals with advanced quantitative and qualitative research methodology in the social sciences, specifically methodology to be used in advanced research in counselor education.

**COU 980. Doctoral Practicum. (1-3 Credits)**

(3) A. Prerequisite: Admission to the doctoral program. A supervised doctoral-level practicum experience in individual, group, and/or career counseling.

**COU 981. Doctoral Internship. (1-6 Credits)**

(3) A. Prerequisite: Admission to the doctoral program. A 600 hour internship to include professional work specified by CACREP standards such as Counseling; Teaching; Supervision, Research and Scholarship; and Leadership and Advocacy. (May be taken for variable credit from 1-6 hours.)

**COU 987. Supervision of Practicum. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. Supervised practice of supervision of doctoral level practicum students.

**Educational Administration****EAD 801. Intro to Ed Adm & Ld Rsch. (3 Credits)**

A. This course explores modern administrative theories, practices, and techniques in school leadership and administrative responsibilities.

Emphasis on research based practices which create an organizational climate supportive of excellence in teaching, learning, and school improvement. Minimum of 5 hours field related experiences.

**EAD 803. Leadership in Higher Education. (3 Credits)**

Candidates will examine various rural leadership activities and theories, then use them to evaluate the leadership of their own organization. They will learn about the process of change and use this theory to develop a plan for a needed change in their organization. They will identify their own strengths and weaknesses and use those data to develop a leadership rubric.

**EAD 807. Ed Admin & Supervision:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: advisor/ departmental approval. Workshops, special topics, or seminars. May be retaken under different subtitles.

**EAD 808. Admin of Pupil Pers Services. (3 Credits)**

A. Prerequisite: departmental approval. Administrative problems relating to child accounting. Major areas emphasized will be attendance reports and records, school census, and social and economic factors influencing school attendance.

**EAD 816. Data Analytics in Higher Ed. (3 Credits)**

Designed to enable candidates to apply various data-analytic strategies and software tools to address important issues and topics within a higher-education framework, EAD 816 is intended specifically for candidates enrolled in the M.A. in Student Personnel Services in Higher Education program within the College of Education. The course will focus on using data analytics to inform decision-making within the context of one's administrative role in a college or university. Credit will not be awarded to students who have credit for EPY 816.

**EAD 819. Sch Lead & Inst. Super. (3 Credits)**

A. Leadership related to the evaluation of instructional programs, teacher effectiveness, and improvement of student learning. Includes building collaborative cultures, informed decision-making, communication skills, and conflict resolution related to curriculum, instruction, & assessment. Minimum of 10 hours field experience required.

**EAD 821. Pract in Admin & Supervision. (3 Credits)**

A. Prerequisite: professional certificate in administration and supervision. Field experiences with emphasis on organization and administration of schools. Seminars/workshops will be attended to analyze problems and experiences of the field activities.

**EAD 827. Finance and Support Services. (3 Credits)**

I, II. The study of assessment, improvement, and application of computer technology and effective leadership practices in education. The focus of the course will be upon the use of technology and knowledge of "best" practices for educational improvements.

**EAD 828. School Law and Ethics. (3 Credits)**

I, II. Legal principles and interpretations of constitutional and statutory laws. Judicial decisions and school policies based on those are emphasized. Special attention is given to the site-based decision making process at the school level.

**EAD 829. Comm Relations & Ed Advocacy. (3 Credits)**

A. Emphasizes communication skills, understanding communities, as well as theories and techniques of school-community relations for educational leaders through critical reflection. Provisions are made for the development of guidelines, techniques and practices which facilitate collaborative relationships. Minimum of 10 hours field experience required.

**EAD 839. The School Superintendency. (3 Credits)**

A. The role of the school district superintendent is explored and analyzed with reference to job responsibilities and organizational structure. Knowledge, skills, and dispositions necessary to serve successfully in the position are also examined.

**EAD 840. Leadership for Safe Schools. (3 Credits)**

A. School safety course designed to develop skills and information to analyze school safety data. Students will evaluate and develop school procedures based on data and research.

**EAD 844. Stndt Persnl Serv in Higher Ed. (3 Credits)**

I. Formerly COU 844. Study of student personnel services; emphasis upon relationship of these services to the total college program, research, and organization. Credit will not be awarded for both EAD 844 and COU 844.

**EAD 845. Intern Student Person Service. (3 Credits)**

(3) II. Supervised experience for student personal trainees. Opportunity provided to share responsibilities for all phases of student personnel services. Must be taken twice, once in the first 9 hours and once in the last 9 hours of the program.

**EAD 849. School Systems Administration. (3 Credits)**

A. Examination of school system operations including financial management, the administration of auxiliary services, human resources management, the management of federal and state programs, facilities planning and management, and the management of curriculum and instructional support.

**EAD 851. Assessment for Learning. (3 Credits)**

A. Candidates will develop skills to analyze data, including common assessments, to improve school learning environment and students achievement. Finally, candidates will develop an action research plan.

**EAD 852. Human Resource Leadership. (3 Credits)**

A. Candidates will evaluate school processes for selecting staff including staff, supervising staff, and providing staff professional development. Candidates will recommend ways to develop school human resources.

**EAD 853. Conditions of Learning. (3 Credits)**

A. Candidates will use data from surveys and interviews to evaluate a school's learning environment. Candidates will develop recommendations for improvement.

**EAD 854. Fair Learning Changes. (3 Credits)**

A. Candidates will complete an action research plan, working with school and community leaders to improve student learning or working conditions. Candidates will lead a team in developing, implementing, and evaluating the plan.

**EAD 856. Learning for At-Risk Students. (3 Credits)**

A. The course will provide knowledge and strategies for aspiring school leaders to support staff, programs, and initiatives to reduce the impact of risk factors on student learning.

**EAD 857. Principal Internship I. (3-6 Credits)**

(3-6) A. Prerequisite: EAD 801 and 851. Students engage in school administration work in school placement. In-field work is augmented by online modules to support candidates. The course is structured to provide opportunities to apply course content knowledge to real issues of administrative practice and to the development and refinement of leadership skills and competencies.

**EAD 858. Principal Internship II. (3 Credits)**

A. Prerequisite: departmental approval and EAD857. Candidates are principles, or have an approved plan, under the supervision of a mentor(s) to learn the principal role. In either case, candidates participate in seminars based on principal duties and responsibilities.

**EAD 859. Instruction Planning for Student Learning. (3 Credits)**

(3) A. An examination of planning processes used by leaders to direct and focus educational change and improvement in student learning.

**EAD 860. Student Development Theory in Higher Education. (3 Credits)**

I, II. This is a theoretical/development course in the introduction to student affairs profession. Credit will not be awarded for both EAD 860 and COU 860.

**EAD 861. Overview of Legal Issues in Higher Education. (3 Credits)**

(3) I, II. Overview of the legal and ethical issues in the student affairs profession. Credit will not be awarded for both EAD 861 and COU 861.

**EAD 862. Policy & Finance in Higher Education. (3 Credits)**

I, II. Analysis of governance, policymaking, and financial issues in the student affairs profession. Credit will not be awarded for both EAD 862 and COU 862.

**EAD 863. Working with College Students. (3 Credits)**

(3) A. Provides candidates with appropriate communication skills and methods to effectively facilitate the growth and development of college students in the context of college or university student personnel services.

**EAD 879. Systems for Change. (3 Credits)**

Prerequisite: departmental approval. Co-requisite: GRD 878r. Analysis of the school district administrator's role with emphasis on understanding district-wide complex systems change and how change impacts student learning. Minimum of 25 clinical hours required.

**EAD 897. Independent Study. (1-3 Credits)**

A. Designed for advanced graduate students who desire to investigate special problems relating to educational administration and/or supervision. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**Educational Leadership & Counseling Education****EDD 901. Orientation to Doctoral Studies. (3 Credits)**

A. A required orientation course that introduces students to programs, faculty, resources, and expectations for individual and group scholarship.

**EDD 902. Intro to Quantitative Research Methods. (3 Credits)**

A. This course is an introduction to the use of quantitative research methods in education. Topics include measures of central tendency, measures of variability, correlation, regression, testing statistical hypotheses, and research design.

**EDD 903. Qualitative Research. (3 Credits)**

A. Orientation to philosophical foundations, major theoretical approaches, methodology, and analysis in qualitative research.

**EDD 904. Applied Research: Evaluation, Survey, and Grant Writing. (3 Credits)**

A. Applications of research methods to include elements of program evaluation, survey design, and grant writing approaches. The course emphasizes the development of specific program planning and evaluation concepts, research design, survey development and grant writing as related to the program planning process.

**EDD 905. Analysis of Research Literature. (3 Credits)**

A. A core doctoral course designed to instruct students on writing wellstructured, critical literature reviews. The course covers topic selection, searching and managing literature data, notetaking techniques, assessing and synthesizing extant literature, and writing, editing, and proofreading strategies.

**EDD 906. Dissertation Practicum. (3 Credits)**

A. Prerequisite: Admission to the doctoral program in educational leadership or counselor education, EDD 901,902,903, and 904; or department approval. Intended for advanced educational leadership and counselor education students, this course focuses on applying research methods and critiquing relevant literature for designing the doctoral dissertation proposal.

**EDD 907. Intermediate Quantitative Research Methods. (3 Credits)**

A. Formerly EDL 812. Prerequisite: EDD 902 or departmental approval. Examination of intermediate quantitative research methods including multiple regression, analysis of variance and covariance, discriminant analysis, and factor analysis. This course emphasizes practice and application of statistical analysis for evidence-based decisions and research. Credit will not be awarded to students who have credit for EDL 812 or 952.

**EDD 908. Advanced Qualitative Research Methods. (3 Credits)**

(3) A. Prerequisite: EDD 903 or departmental approval. Examination of intermediate qualitative research methods. Emphasis is on advancing techniques for data collection, data analyses, and write up with emphasis on practice and application. Includes practice with Qualitative Data Analysis (QDA) software. Credit will not be awarded for both EDL 953 and EDD 908. Part III.

**EDD 999. Dissertation. (1-3 Credits)**

A. Formerly EDL 999. Prerequisite: Departmental approval. Completion and defense of a research dissertation appropriate to concentration. Course is repeatable for a maximum of 24 hours. A minimum of 12 hours is required for degree completion.

**Educational Leadership & Policy Studies****EDL 811. Introductory Qualitative Methods. (3 Credits)**

A. Introduction to qualitative data collection and analysis in educational research. Review of origins, theory, and design of method; issues of validity, reliability, and human subject ethics.

**EDL 820. Cultural Leadership. (3 Credits)**

A. Investigation of cultural and social influences on the development of leadership in educational settings. Emphasis is on place and the application of sociocultural concepts to leadership issues and problems in educational settings.

**EDL 822. Social Political Leadership. (3 Credits)**

A. Examination of social and political dimensions of the process and content of leadership from theoretical and practical perspectives. Emphasis is on the application of relevant theoretical constructs to leadership issues and problems in educational settings.

**EDL 823. Assessment for Ed Leaders. (3 Credits)**

A. Study and application of appropriate and effective uses of different types of assessment data in a variety of educational settings to guide leadership practice.

**EDL 826. Leadership for Change. (3 Credits)**

A. Prerequisite: EDL 810 or permission of instructor. The emphasis is on research design, the limitations of research design, and the analysis of data. Techniques include ANOVA, regression, and ANCOVA.

**EDL 830. College Teaching. (3 Credits)**

A. An introduction to teaching on the college level focusing on best practices in pedagogy and research.

**EDL 899. Thesis for Specialists in Educ. (3 Credits)**

A. Prerequisite: departmental approval. Completion and defense of a research thesis in educational leadership, policy studies, or a related field. May be retaken to a maximum of six hours.

**EDL 900. Ed.D. Field Experience. (3 Credits)**

A. Prerequisite: departmental approval. Minimum of eighty hours of field experiences relevant to the student's planned program of study, supported by skill development through symposia, tutorials, lectures, and assessments. May be retaken to maximum of six hours.

**EDL 925. Organizational Bhvr & Justice. (3 Credits)**

(3) A. Examines the dynamics of educational organizations including the complex patterns of human dynamics and provides a rationale for principles of situational leadership. Facilitates understanding of organizations, their management, and implications for perceptions of fairness.

**EDL 930. Seminar on Rural Schools & Com. (3 Credits)**

A. Consideration of the relationship between schools and rural communities, including issues related to democratic localism, state and national education agendas, and economic development in rural areas.

**EDL 940. Social Political Leadership. (3 Credits)**

Examination of social and political dimensions of the process and content of leadership from theoretical and practical perspectives, emphasizing and examining the shape of education in the United States, and the effect of these forces. Formerly EDL 822. Credit will not be awarded to students who have credit for EDL 822.

**EDL 941. Exam Div, Race, & Cult Equity. (3 Credits)**

(3) A. Examines education as a social and cultural phenomenon. Students gain skills to critically analyze educational practice, promote inclusion in schools, lead for cultural equity within organizations, and work with varied communities to serve marginalized students.

**EDL 942. Leadership Theory and Practice. (3 Credits)**

A. Analysis of skills required for successful leadership in education organizations. Students evaluate established theories, compare management from leadership, and examine ethical decision-making in complex educational dilemmas. Aligning leadership to individual strengths, values will be considered. Formerly EDL 821. Credit will not be awarded to students who have credit for EDL 821.

**EDL 943. Capacity Bldg, Org Improv & In. (3 Credits)**

Focuses on the leader's role in changing educational organizations emphasizing the nature, characteristics, responsibilities, and contextual determinants of change. Course considers leadership practices used to build organizational capacity. Formerly EDL 826. Credit will not be awarded to students who have credit for EDL 826.

**EDL 944. Public Policy & Politics. (3 Credits)**

The course focuses on education policy formation, application, and impact on both P-12 and postsecondary education. The interaction between policy and politics is emphasized. Students will research and prepare policy briefs. Formerly EDL 924. Credit will not be awarded to students who have credit for EDL 924.

**EDL 945. Ed.D Field Experience. (3 Credits)**

(3) A. Formerly EDL 900. A diverse field experience relevant to the student's planned program of study and research focus, supported by a mentor through site visits, interviews, field investigations and peer information sharing.

**EDL 950. Educating and Supporting Diverse Student Populations. (3 Credits)**

(3) A. This course examines best practice approaches for educating and serving students marginalized due to environmental, developmental or behavioral conditions and circumstances. Students in this course will develop improvement plans and analyze strength-based leadership.

**EDL 951. Higher Ed Admin and Leadership. (3 Credits)**

A. Designed to examine major themes of higher education administration, organizational leadership and governance with special emphasis on contemporary leadership challenges in postsecondary educational settings. Formerly EDL 912. Credit will not be awarded to students who have credit for EDL 912.

**EDL 953. Adv Qualitative Res Methods. (3 Credits)**

(3) A. Prerequisite: EDD 903 or departmental approval. Examination of intermediate qualitative research methods. Emphasis is on advancing techniques for data collection, data analyses, and write up with emphasis on practice and application. Includes practice with Qualitative Data Analysis (QDA) software.

**EDL 954. Found & Cur Issues in Ed Leade. (3 Credits)**

(3) A. Students analyze leading theorists, historical development, legal and policy precedence, and contemporary issues in American P-20 education with emphasis on the examination of leader roles. Students will integrate theoretical, legal, and historical context to interpret current issues.

**EDL 955. Field Experience Elective. (3 Credits)**

(3) A. Formerly EDL 900. A field experience relevant to the student's planned program of study and research focus, supported by a mentor through site visits, interviews, field investigations and peer information sharing.

**EDL 956. Analysis of Research Lit. (3 Credits)**

(3) A. This is a doctoral course designed to instruct students on writing well-structured, critical literature reviews. The course covers topic selection, searching and managing literature data, note-taking techniques, assessing and synthesizing extant literature, and writing, editing, and proofreading strategies. Credit will not be awarded for both EDD 905 and EDL 956.

**EDL 999. Dissertation. (3 Credits)**

A. Prerequisite: departmental approval. Completion and defense of a research dissertation in educational leadership, policy studies, or related field. May be retaken to a maximum of twelve hours.

## Certification Preparation Program

These are programs of study which do not lead to a degree or to an EKU awarded recognition but instead prepare the student, upon recommendation from EKU, for professional certification by the Commonwealth of Kentucky Education Professional Standards Board.

## Standard Guidance Certification Program

This program allows those holding the Provisional Certificate in Elementary, Secondary, or P-12 grades in School Counseling, to convert their provisional certification into Standard Guidance Certification. Students holding a 48-hour master degree in School Counseling are required to earn 6 graduate hours above their masters degree. Students holding anything other than the 48-hour master in School Counseling will have to earn the equivalent of the current 48-hour Masters in School Counseling plus an additional 6 graduate hours in approved electives.

## Program Requirements

Code	Title	Hours
<b>Standard Guidance Certification Requirements Electives</b>		
	Choose from six hours of electives to be selected with advisor approval	6
<b>Rank I Certification Requirements Electives</b>		
	Rank I in School Counseling must at least 60 graduate hours in a planned program to be selected with advisor approval	12

## Clinical Mental Health Counseling, Master of Arts (M.A.)

### Admission Requirements

#### Admissions to the Master of Arts in Education in School Counseling and the Master of Arts in Clinical Mental Health Counseling

All graduate school admissions requirements must be met which includes a minimum grade point average of 3.0 on a 4.0 scale and completion of the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT). The applicant must also submit additional application materials as described on the counseling program area website at coecounseling.eku.edu (<http://coecounseling.eku.edu>). Additionally, the applicant must meet one of the following requirements for admission to the programs:

1. an undergraduate overall grade point average of 3.0 on a 4.0 scale or
2. an undergraduate grade point average of 3.25 on a 4.0 scale on the last 60 hours or

3. a minimum of 146 (400 on old version) on the verbal section of the Graduate Record Exam (GRE) or
4. a minimum of 140 (400 on old version) 400 on the performance section on the Graduate Record Exam (GRE) or
5. a minimum of 365 on the Miller Analogies Test (MAT)

Additionally, the Counselor Education Program requires a state criminal history background check approved\* by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal background check may be required as a condition of admission. An additional state criminal background check approved\* by the College of Education and Applied Human Sciences is required prior to beginning off campus internship courses (COU 880, COU 881) or may be required at additional points in the program. Under certain circumstances, a national criminal background check may be required. Students must purchase professional liability insurance prior to enrollment in any clinical practice class including COU 846, COU 820, COU 880, and COU 881. Further, that insurance coverage must be maintained throughout enrollment in the graduate program in any class that includes clinical applications.

\*"Approved" is a formal review process of the criminal records report. Any misrepresentation of facts, by omission or addition, may result in the denial of admission to the Counselor Education Program or enrollment in off campus externship courses.

## Program Requirements

CIP Code: 13.1101

Code	Title	Hours
<b>Major Requirements</b>		
<i>Core Courses</i>		
COU 803	Prin & Prac of Mental Hlth Cou	3
COU 804	Counseling Diverse Populations	3
COU 813	Prof Orient & Ethics in Course <sup>1</sup>	3
COU 820	Group Counseling	3
COU 822	Lifestyle & Career Counseling	3
COU 840	Counseling Theory and Practice <sup>1</sup>	3
COU 846	Process and Basic Tech Counsel <sup>1</sup>	3
COU 847	Crisis and Abuse Counseling	3
COU 848	Child & Adolescent Counseling	3
COU 849	Addiction Disorders Counseling	3
COU 850	Family Counseling	3
COU 855	Diagnosis & Treatment Counsel	3
COU 880	Counseling Practicum:_____	3
COU 881	Internship in Counseling:_____ <sup>2,3</sup>	3-6
EPY 816	Tests and Measurements	3
EPY 839	Human Growth & Development	3
EPY 869	Research & Program Evaluation	3
<b>Electives</b>		
	Choose from nine hours of the following approved electives: (Additional electives may be selected with advisor approval.)	9
COU 807	Counseling: _____	
COU 814	Admin & Cnslttn in Cnslng Srvc	
COU 825	Dvlpmntl COU w/ Schl Age Child	
COU 826	Assessment in Counseling	
COU 827	Indiv Assess. of Intelligence	

COU 849	Addiction Disorders Counseling	
COU 852		
COU 853	Cou Process/Clinical Sexuality	
COU 856	Pract in Intellect Assessment	
COU 865	Mindfulnes Pract Couns & Clie	
COU 870	Intro to Play Therapy	
COU 871	Advanced Play Therapy	
COU 872	Practicum in Play Therapy	
COU 881	Internship in Counseling:_____ <sup>3</sup>	
COU 885	Clinical Supervision of COU	
COU 891	Advanced Counseling Theories	
COU 892	Leadrship & Social Justice Adv	
COU 893	Scholarship and Pub in COU Ed	
COU 894	Teaching in Counselor Ed	
COU 895	Advanced Clinical Supervision	

**Exit Requirements**

GRD 877J	MA M/Health Cnslng Written	0
or GRD 878S	MA M/Health Cnslng Oral Comp	

**Total Hours** **60-63**

1

Course Sequence: COU 813 Prof Orient & Ethics in Course, COU 840 Counseling Theory and Practice, and COU 846 Process and Basic Tech Counsel must be taken in semester sequence or as a corequisite.

2

3-9 hours if internship is taken over 2-3 semesters

3

Any COU 881 Internship in Counseling:\_\_\_\_\_ hours taken in excess of the three required Core credit hours will be applied as electives. A maximum of six credit hours of COU 881 Internship in Counseling:\_\_\_\_\_ may be used as electives.

A grade of B or higher is required in every course for degree completion for the M.A. in Clinical Mental Health Counseling program.

## Communication Disorders, Master of Arts (M.A.)

### General Information

The Master of Arts Program in Communication Disorders is a two-year, full time program leading to eligibility for certification/licensure in Speech-Language Pathology by the American Speech-Language-Hearing Association and Kentucky Board of Speech-Language Pathology. More complete information concerning the graduate program can be reviewed by accessing the Program website at <https://cd.eku.edu>.

### Admission Requirements

#### Admission to the Program

To be eligible for consideration for admission into the M.A. Program in Communication Disorders, applicants must meet the requirements for admission to the Eastern Kentucky University Graduate School and have

1. A bachelor's degree in Communication Disorders with a minimum undergraduate GPA of 3.0 overall on the transcript which includes the fall semester prior to the application deadline of Feb. 15;

2. documentation of 25 clinical observation hours by August 1 of the application year as required by the American Speech-Language-Hearing Association for national certification; and
3. record of completion of the GRE
4. Applicants must have three references who complete a recommendation form describing their potential success at the graduate level of study. These recommendations are completed through the online application process.
5. Applicants must also provide an essay of approximately 500 words discussing personal and professional objectives. The essay should be submitted in the online application to the Graduate School.
6. The CD Program requires a state criminal history background check approved<sup>1</sup> by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal background check may be required as a condition of admission. An additional state criminal background check approved<sup>1</sup> by the College of Education and Applied Human Sciences is required prior to beginning off campus externship courses (CSD 897 School Experiences in CD, CSD 898 Externship in Comm Disorders) or may be required at additional points in the program. Under certain circumstances, a national criminal background check may be required. Students must purchase professional liability insurance prior to enrollment in CSD 874 Grad Pract: Speech-Lang Path. Further, that insurance coverage must be maintained throughout enrollment in the graduate program.

1

"Approved" is a formal review process of the criminal records report. Any misrepresentation of facts, by omission or addition, may result in the denial of admission to the Communication Disorders Program or enrollment in off campus externship courses.

Admission to Eastern Kentucky University's undergraduate program in Communication Disorders does not guarantee acceptance into Eastern Kentucky University's graduate program. There are limited spaces available in the graduate program. The most qualified applicants are admitted. Admission is based upon the criteria described above. Application forms are available online at the Graduate Education and Research website, <http://gradschool.eku.edu/apply> (<http://gradschool.eku.edu/apply/>). Submit the completed application for admission with all required documents (application form, official transcripts, three recommendation forms, essay) by February 15 to the Office of Graduate Education and Research.

### Professional Code of Ethics

The ASHA Code of Ethics outlines professional guidelines for ethical professional conduct and decision-making in the field of speech-language pathology. Students are expected to abide by the ASHA Code of Ethics available at <http://www.asha.org/Code-of-Ethics/>

### Program Requirements

CIP Code: 51.0203

**Probation and Progress in the Program** – If, in any semester of study, a candidate's graduate grade point average falls below 3.0 for all courses taken after admission to the program, the candidate will automatically be on academic probation. The candidate will be dismissed from the program following any second semester with a cumulative GPA below 3.0. A candidate in the program, who earns more than two "Cs", or one

“D”, or one “F” in courses taken after admission, will be dismissed from the program.

Code	Title	Hours
<b>Communication Disorders Core</b>		
CSD 720	Augment & Alternat Comm System	3
CSD 863	Motor Speech Disorders	3
CSD 867	Advanced Language Disorders	3
CSD 873	Adv. Artic. & Phono. Disorders	3
CSD 874	Grad Pract: Speech-Lang Path (three-hour course taken three times)	9
CSD 875	Adult Neuro. Lang. Disorders	3
CSD 876	Advanced Voice Disorders	3
CSD 877	Advanced Fluency Disorders	3
CSD 878	Diagnosis of Comm Disorders	3
CSD 879	Dysphagia	3
CSD 880	Research Methodology Comm Dis	3
<b>Approved Electives/Research Option</b>		
Candidates who apply for and are selected to the Research Option will take:		
CSD 899	Research Project/Thesis Option	3
Choose from six hours of approved electives from areas such as CSD, CDF, COU, EDC, EDF, EME, EMG, EMS, ENG, EPY, HEA, MPH, NFA, NSC, NUR, OTS, PHE, PSY, SED, and/or STA		
<b>Professional Semester I</b>		
CSD 870	Prof Issues in Comm Disorders	3
CSD 898	Externship in Comm Disorders	6
or CSD 897	School Experiences in CD	
<b>Professional Semester II</b>		
CSD 897	School Experiences in CD	6
or CSD 898	Externship in Comm Disorders	
Approved Elective if needed		
<b>Exit Requirements</b>		
GRD 877N	MAED Com Disorder Written Comp	0
or GRD 878W	MAED Commun Disorder Oral Comp	
<b>Total Hours</b>		<b>63</b>

If candidates have not completed a course in Neural Bases of Communication; Speech and Hearing Science; School Services in Communication Disorders; Statistics; and Chemistry or Physics with a grade of “C” or higher, then these courses must be completed to meet the requirements for graduation, certification/licensure in Speech-Language Pathology by the American Speech-Language-Hearing Association and Kentucky Board of Speech-Language Pathology.

## Exit Requirements

The following are the exit requirements for the M.A. in Communication Disorders:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- A thesis and oral defense - GRD 877N MAED Com Disorder Written Comp (Research Option) or a written comprehensive examination

covering education and major program components – GRD 878W MAED Commun Disorder Oral Comp (Non-Research Option).

## Clinical Clock Hours Requirement

Candidates must complete 375 clinical clock hours before exiting from the graduate program. This requirement will meet the number of hours specified for national certification by the American Speech-Language-Hearing Association and will meet or exceed the hours required for Kentucky Licensure in Speech-Language Pathology. Clinical experiences for accruing clock hours are offered through CSD 874 Grad Pract: Speech-Lang Path, CSD 897 School Experiences in CD, and CSD 898 Externship in Comm Disorders. A maximum of 50 clinical clock hours accrued at the undergraduate level may be counted with appropriate documentation. A minimum of 25 clock hours of (documented) clinical observation must be completed prior to earning these clinical clock hours.

## Licensure

Candidates seeking national certification by the American Speech-Language-Hearing Association and state licensure by the Kentucky Board of Speech-Language Pathology and Audiology must complete the appropriate PRAXIS exams.

## Doctor of Education with a Concentration in Curriculum Leadership for Social Justice (Ed.D.)

### General Information

The Doctor of Education (Ed.D.) includes a common core of coursework and three areas of concentration including

1. Leadership, Policy Studies, and Social Justice
2. Counselor Education and Supervision, and
3. Curriculum Leadership for Social Justice.

Students in each concentration complete common core coursework that provides foundational training in three areas including research, leadership, and social justice advocacy. Basic general information about each concentration appears below.

### Curriculum Leadership for Social Justice Concentration

Curriculum Leadership for Social Justice is geared for devoted practitioners committed to addressing problems facing leaders in the field of education. This degree concentration aims to develop scholars who wish to assume leadership roles in educational institutions, such as school or district curriculum leadership. Students will research and implement a diverse range of curricular trends focused on equity and social justice. Doctoral faculty will serve as mentors in helping students create doctoral dissertations that meet their professional goals.

### Admission Requirements

The decision to admit a student to doctoral work constitutes a major commitment from the faculty in the form of advising, teaching, chairing and serving on the committee, preparing and evaluating examinations, and guiding the dissertation to successful completion. The applications are due by March 1 for admission in the following fall semester. Applications received after March 1 may be considered for Spring admission pending availability of openings in the programs.

Admission to the Doctor of Education program is based upon the following entrance requirements:

1. Earned a master's degree in education or a related field with a minimum graduate GPA of 3.5. Students applying for the concentration in Counselor Education and Supervision must have a 60 hour master's degree from a CACREP accredited program or its equivalent.
2. Must have professional experience (preference will be given to those with leadership, school counseling, or clinical mental health counseling experience)

*The applicant should note that the decision to admit students to the doctoral program is a collective judgment of the faculty and represents their determination of the likelihood of the applicant's success in all major phases of the degree program. These judgments take into account the applicant's professional experiences, communication and thinking skills, and other relevant capabilities. Thus, an applicant is not automatically admitted on the basis of meeting the minimal criteria.*

A completed application packet will include:

1. Completed graduate school and concentration applications
2. Transcripts of all undergraduate and graduate work
3. Resumé of professional experience
4. Score reports from the Graduate Record Examination (GRE) or Miller Analogies Test if the graduate GPA is less than 3.5
5. At least three letters of recommendation—including at least one each from a peer, a supervisor, and a college/university faculty member.
6. Writing sample from previous graduate program that exemplifies applicant's writing and research skills

After a holistic review of the application packets, the Doctoral Program Committee will select those applicants to be interviewed. A dispositions evaluation (an assessment of attitudes and behaviors practiced in the areas of personal responsibility, ethics, emotional management, communication, and work ethic) of the candidate to be conducted by one or more members of the Doctoral Program Committee using an established format/protocol.

Students will be required to complete a criminal background check during their first semester, but may complete coursework on a provisional status pending completion of the criminal background check.

## Program Requirements

CIP Code: 13.0401

Candidates in both concentrations complete the following core coursework. Thereafter, each candidate's program of study will be individually planned within the following curriculum framework as defined by the concentration area:

Code	Title	Hours
<b>Ed.D. Core Requirements</b>		
EDD 901	Orientation to Doc Studies	3
EDD 902	Intro to Quant Res Methods	3
EDD 903	Qualitative Research	3
EDD 904	App Res: Eval, Sur, & Gr Writ	3
EDD 906	Dissertation Practicum	3
EDD 907 or EDD 908	Intermed Quant Research Meth Adv Qualitative Research Meth	3

EDD 999	Dissertation (Additional dissertation hours may be required.)	12
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### Concentrations

Students must select one of the following Concentrations: 30

Leadership, Policy Studies, and Social Justice

Counselor Education and Supervision

Curriculum Leadership for Social Justice

### Exit Requirements

GRD 878P	MAT IECE Portfolio Review (Qualifying/Preliminary Exam)	0
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GRD 878Z	Ed. D. Oral Defense Exam (Dissertation Defense)	0
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**Total Hours** 60

## Concentration

Code	Title	Hours
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### Discipline Specific Concentration

EDF 855	Found of Multicultural Educati	3
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EMS 850	Curr. for Leaders in Education	3
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EDL 820	Cultural Leadership	3
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EDL 940	Social Political Leadership	3
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EDL 941	Exam Div, Race, & Cult Equity	3
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EDL 950	Educating and Supporting Diverse Student Populations	3
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### Electives

Choose from 12 hours of the following: 12

EAD 807	Ed Admin & Supervision:_____	
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EAD 897	Independent Study	
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EDL 925	Organizational Bhvr & Justice	
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EDL 943	Capacity Bldg, Org Improv & In	
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EDL 944	Public Policy & Politics	
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EDL 954	Found & Cur Issues in Ed Leade	
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COU 892	Leadrship & Social Justice Adv	
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CRJ 861		
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CRJ 862		
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PSY 837	Social Psy & Cultural Diversity	
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**Total Hours** 30

## Exit Requirements

### Qualifying/Preliminary Examination

The Student's Doctoral Committee prepares and scores the Qualifying/Preliminary examination. This examination consists of two (2) options, which include

1. written responses by the student to the prepared questions written by the Student Doctoral Committee and/or
2. a written methodology paper and oral defense by the student that is evaluated by the student doctoral committee.

The Student Doctoral Committee will require students to rewrite any failed portion of the Qualifying examination by the last day of classes during the following semester.

### Dissertation

The purpose of the dissertation is for students to demonstrate the ability to conceptualize and complete an inquiry project. The dissertation

process, during which students register for a minimum of twelve (12) credit hours, includes three (3) stages. First, there is the development of a proposal that the Student Doctoral Committee reviews and approves. Second, students prepare the dissertation document. Finally, students submit and defend the dissertation to the Student Doctoral Committee.

For additional information, consult the Doctoral Program Director for Educational Leadership and Policy Studies or for Counselor Education and Supervision.

## Doctor of Education with a Concentration in Leadership, Policy Studies, and Social Justice (Ed.D.)

### General Information

The Doctor of Education (Ed.D.) includes a common core of coursework and three areas of concentration including

1. Leadership, Policy Studies, and Social Justice
2. Counselor Education and Supervision, and
3. Curriculum Leadership for Social Justice.

Students in each concentration complete common core coursework that provides foundational training in three areas including research, leadership, and social justice advocacy. Basic general information about each concentration appears below.

### Leadership, Policy Studies, and Social Justice Concentration

P-12 and Postsecondary Leaders are charged to direct broad educational programs that increase excellence and equity as measured by outcomes. Educational entities and organizations need professionals who use current knowledge and possess strong leadership skills to design and administer programs that can improve teaching and learning. Moreover, they need leaders who know about and respond to the specific challenges and strengths of the communities they serve. The Doctor of Education (Ed.D.) program in this concentration at Eastern Kentucky University will play a significant role in developing such leaders. Participation in this doctoral program will lead to enhanced practical capacity with regard to human learning, educational institutions, and the interaction of the larger society with educational, financial, and governmental processes. Likewise, participation will allow for the acquisition of skills to conduct and successfully apply research. Course work will be built on a knowledge base that reflects current research, theory, and practice. Doctoral faculty will serve as mentors.

### Admission Requirements

The decision to admit a student to doctoral work constitutes a major commitment from the faculty in the form of advising, teaching, chairing and serving on the committee, preparing and evaluating examinations, and guiding the dissertation to successful completion. The applications are due by March 1 for admission in the following fall semester. Applications received after March 1 may be considered for Spring admission pending availability of openings in the programs.

Admission to the Doctor of Education program is based upon the following entrance requirements:

1. Earned a master's degree in education or a related field with a minimum graduate GPA of 3.5. Students applying for the

concentration in Counselor Education and Supervision must have a 60 hour master's degree from a CACREP accredited program or its equivalent.

2. Must have professional experience (preference will be given to those with leadership, school counseling, or clinical mental health counseling experience)

*The applicant should note that the decision to admit students to the doctoral program is a collective judgment of the faculty and represents their determination of the likelihood of the applicant's success in all major phases of the degree program. These judgments take into account the applicant's professional experiences, communication and thinking skills, and other relevant capabilities. Thus, an applicant is not automatically admitted on the basis of meeting the minimal criteria.*

A completed application packet will include:

1. Completed graduate school and concentration applications
2. Transcripts of all undergraduate and graduate work
3. Resumé of professional experience
4. Score reports from the Graduate Record Examination (GRE) or Miller Analogies Test if the graduate GPA is less than 3.5
5. At least three letters of recommendation—including at least one each from a peer, a supervisor, and a college/university faculty member.
6. Writing sample from previous graduate program that exemplifies applicant's writing and research skills

After a holistic review of the application packets, the Doctoral Program Committee will select those applicants to be interviewed. A dispositions evaluation (an assessment of attitudes and behaviors practiced in the areas of personal responsibility, ethics, emotional management, communication, and work ethic) of the candidate to be conducted by one or more members of the Doctoral Program Committee using an established format/protocol.

Students will be required to complete a criminal background check during their first semester, but may complete coursework on a provisional status pending completion of the criminal background check.

### Program Requirements

CIP Code: 13.0401

Candidates in both concentrations complete the following core coursework. Thereafter, each candidate's program of study will be individually planned within the following curriculum framework as defined by the concentration area:

Code	Title	Hours
<b>Ed.D. Core Requirements</b>		
EDD 901	Orientation to Doc Studies	3
EDD 902	Intro to Quant Res Methods	3
EDD 903	Qualitative Research	3
EDD 904	App Res: Eval, Sur, & Gr Writ	3
EDD 906	Dissertation Practicum	3
EDD 907	Intermed Quant Research Meth	3
or EDD 908	Adv Qualitative Research Meth	
EDD 999	Dissertation (Additional dissertation hours may be required.)	12

### Concentrations

Students must select one of the following Concentrations: 30

Leadership, Policy Studies, and Social Justice

Counselor Education and Supervision

Curriculum Leadership for Social Justice

**Exit Requirements**

GRD 878P MAT IECE Portfolio Review (Qualifying/Preliminary Exam) 0

GRD 878Z Ed. D. Oral Defense Exam (Dissertation Defense) 0

**Total Hours** 60**Concentration****Code Title Hours****Discipline Specific Concentration**

EDL 940 Social Political Leadership 3

EDL 941 Exam Div, Race, &amp; Cult Equity 3

EDL 942 Leadership Theory and Practice 3

EDL 943 Capacity Bldg, Org Improv &amp; In 3

EDL 944 Public Policy &amp; Politics 3

EDL 945 Ed.D Field Experience 3

**Electives**

Choose from 12 hours of the following: 12

EDL 950 Educating and Supporting Diverse Student Populations

EDL 951 Higher Ed Admin and Leadership

EDL 954 Found &amp; Cur Issues in Ed Leade

EDL 955 Field Experience Elective

EDL 956 Analysis of Research Lit

EDD 907 Intermed Quant Research Meth (if not taken in Ed.D. core)

or EDD 908 Adv Qualitative Research Meth

EAD 807 Ed Admin &amp; Supervision:\_\_\_\_\_

or EAD 897 Independent Study

**Total Hours** 30**Candidates adding Superintendent licensure will take the following discipline specific and elective courses:****Code Title Hours****Discipline Specific Concentration**

EAD 839 The School Superintendency 3

EAD 849 School Systems Administration 3

EAD 859 Instruc Plnng for Stu Lrnng 3

EAD 879 Systems for Change 3

**Electives**

Choose from six hours of the following: 6

EDL 950 Educating and Supporting Diverse Student Populations

EDL 951 Higher Ed Admin and Leadership

EDL 954 Found &amp; Cur Issues in Ed Leade

EDL 955 Field Experience Elective

EDL 956 Analysis of Research Lit

EDD 907 Intermed Quant Research Meth (if not taken in Ed.D. core)

or EDD 908 Adv Qualitative Research Meth

EAD 807 Ed Admin &amp; Supervision:\_\_\_\_\_

or EAD 897 Independent Study

**Total Hours** 18**Exit Requirements****Qualifying/Preliminary Examination**

The Student's Doctoral Committee prepares and scores the Qualifying/Preliminary examination. This examination consists of two (2) options, which include

1. written responses by the student to the prepared questions written by the Student Doctoral Committee and/or
2. a written methodology paper and oral defense by the student that is evaluated by the student doctoral committee.

The Student Doctoral Committee will require students to rewrite any failed portion of the Qualifying examination by the last day of classes during the following semester.

**Dissertation**

The purpose of the dissertation is for students to demonstrate the ability to conceptualize and complete an inquiry project. The dissertation process, during which students register for a minimum of twelve (12) credit hours, includes three (3) stages. First, there is the development of a proposal that the Student Doctoral Committee reviews and approves. Second, students prepare the dissertation document. Finally, students submit and defend the dissertation to the Student Doctoral Committee.

For additional information, consult the Doctoral Program Director for Educational Leadership and Policy Studies or for Counselor Education and Supervision.

**Educational Administration and Supervision, Specialist in Education (Ed.S.)****General Information**

The Specialist in Education degree is a professional degree designed for those preparing for positions that call for a level of study and specialization beyond the master's degree. The specific goal is to provide the preparation needed for certification for Level II School Principal Supervisor of Instruction Level II, Director of Pupil Personnel Level II, or Superintendent of Schools. The 30-hour minimum requirement is a structured program oriented toward the candidate's professional objectives. Candidates for the superintendent certificate must have two years of administrative experience.

**Admission Requirements**

Admission to the specialist in education degree program includes the following requirements, beyond a master's degree.

1. Documentation of three (3) years teaching experience.
2. District administration candidates must hold principal certification. Additionally, superintendent candidates must provide documentation of two years of administrative experience.
3. Provision of two (2) letters of recommendation from school/district supervisors and one (1) letter from a district official pledging support for the clinical experiences,

4. Provision of a written statement indicating ability to improve student achievement, to lead, and to possess advanced knowledge of curriculum, instruction, and assessment.
5. Completion of an interview and assessment process.

## Program Requirements

CIP Code: 13.0401

Code	Title	Hours
<b>Core Courses</b>		
EAD 853	Conditions of Learning	3
EAD 854	Fair Learning Changes	3
EAD 858	Principal Internship II	3
EAD 859	Instruc Plnng for Stu Lrng	3
EDL 950	Educating and Supporting Diverse Student Populations	3
<b>Certifications</b>		
Choose from one of the following Certifications:		15
School Principal		
District Administration (Director of Pupil Personnel/Supervisor of Instruction)		
<b>Exit Requirements</b>		
GRD 878R	Spe Ed Admin Thesis Defense	0
Candidates must successfully complete and defend a professional portfolio.		
<b>Total Hours</b>		<b>30</b>

### Certification Requirements

To be recommended for education administrative certification and/ or rank change, all candidates must meet the requirements for admission to professional education, complete the approved leadership curriculum, and pass the required PRAXIS exam. Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Certification at (502) 564-5846.

The Supervisor of Instruction program prepares instructional supervisors for district-wide leadership. Initial certification for supervisor of instruction requires completion of an approved master's degree, the courses required for Level I principal certification, and three years of teaching experience.

The Director of Pupil Personnel program prepares directors and assistant directors of pupil personnel services for school district-wide leadership. Initial certification for director of pupil personnel services requires completion of an approved master's degree, the courses required for Level I principal certification, and three years of teaching experience.

The Superintendent of Schools program prepares highly qualified candidates for district-wide leadership. Initial certification for school superintendent requires completion of an approved master's degree, the courses required for Level II principal certification, three years of teaching experience, and two years of administrative experience.

### School Principal

Prerequisites for school principal concentration: ETL 800 Leadership Skills for Teachers, EAD 801 Intro to Ed Adm & Ld Rsch, or other leadership course.

Code	Title	Hours
EAD 827	Finance and Support Services	3
EAD 828	School Law and Ethics	3
EAD 840	Leadership for Safe Schools	3
EAD 852	Human Resource Leadership	3
EAD 857	Principal Internship I	3
<b>Total Hours</b>		<b>15</b>

### District Administration (Director of Pupil Personnel/Supervisor of Instruction)

Code	Title	Hours
EAD 808	Admin of Pupil Pers Services	3
EAD 821	Pract in Admin & Supervision	3
EAD 849	School Systems Administration	3
EDL 944	Public Policy & Politics	3
EDL 954	Found & Cur Issues in Ed Leade	3
<b>Total Hours</b>		<b>15</b>

## Elementary Education Counselor Seeking Secondary School Counseling Endorsement Preparation Program

### Endorsement Preparation Programs

These are programs of study which do not lead to a degree or to an ECU awarded recognition but instead prepare the student, upon recommendation from ECU, for professional endorsement by the Commonwealth of Kentucky Education Professional Standards Board.

### Program Requirements

Code	Title	Hours
<b>Core Courses</b>		
COU 814	Admin & Cnslttn in Cnslng Srvc	3
COU 825	Dvlpmntl COU w/ Schl Age Child	3
Choose from six hours of approved electives		6
<b>Total Hours</b>		<b>12</b>

## School Counseling, Master of Arts in Education (M.A.Ed.)

### Admission Requirements

#### Admissions to the Master of Arts in Education in School Counseling and the Master of Arts in Clinical Mental Health Counseling

All graduate school admissions requirements must be met which includes a minimum grade point average of 3.0 on a 4.0 scale and completion of the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT). The applicant must also submit additional application

materials as described on the counseling program area website at [coecounseling.eku.edu](http://www.coecounseling.eku.edu) (<http://www.coecounseling.eku.edu>). Additionally, the applicant must meet one of the following requirements for admission to the programs:

1. an undergraduate overall grade point average of 3.0 on a 4.0 scale or
2. an undergraduate grade point average of 3.25 on a 4.0 scale on the last 60 hours or
3. a minimum of 146 (400 on old version) on the verbal section of the Graduate Record Exam (GRE) or
4. a minimum of 140 (400 on old version) 400 on the performance section on the Graduate Record Exam (GRE) or
5. a minimum of 365 on the Miller Analogies Test (MAT)

Additionally, the Counselor Education Program requires a state criminal history background check approved\* by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal background check may be required as a condition of admission. An additional state criminal background check approved\* by the College of Education and Applied Human Sciences is required prior to beginning off campus internship courses (COU 880, COU 881) or may be required at additional points in the program. Under certain circumstances, a national criminal background check may be required. Students must purchase professional liability insurance prior to enrollment in any clinical practice class including COU 846, COU 820, COU 880, and COU 881. Further, that insurance coverage must be maintained throughout enrollment in the graduate program in any class that includes clinical applications.

\*"Approved" is a formal review process of the criminal records report. Any misrepresentation of facts, by omission or addition, may result in the denial of admission to the Counselor Education Program or enrollment in off campus externship courses.

## Program Requirements

CIP Code: 13.1101

Code	Title	Hours
<b>Major Requirements</b>		
COU 804	Counseling Diverse Populations	3
COU 813	Prof Orient & Ethics in Course <sup>1</sup>	3
COU 814	Admin & Cnslttn in Cnslng Srvc	3
COU 820	Group Counseling	3
COU 822	Lifestyle & Career Counseling	3
COU 825	Dvlpmntl COU w/ Schl Age Child	3
COU 840	Counseling Theory and Practice <sup>1</sup>	3
COU 846	Process and Basic Tech Counsel <sup>1</sup>	3
COU 847	Crisis and Abuse Counseling	3
COU 848	Child & Adolescent Counseling	3
COU 855	Diagnosis & Treatment Counsel	3
COU 880	Counseling Practicum: _____	3
COU 881	Internship in Counseling: _____ <sup>2</sup>	3-9
EPY 816	Tests and Measurements	3
EPY 839	Human Growth & Development	3
EPY 869	Research & Program Evaluation	3
<b>Electives</b>		
Choose from 0-6 hours of the following approved electives:		0-6
COU 885	Clinical Supervision of COU	

COU 891	Advanced Counseling Theories	
COU 892	Leadrsip & Social Justice Adv	
COU 893	Scholarship and Pub in COU Ed	
COU 894	Teaching in Counselor Ed	
COU 895	Advanced Clinical Supervision	
<b>Exit Requirements</b>		
GRD 877L	MAED Schl Cnslng Written Comp	0
or GRD 878U	MAED Schl Cnslng Oral Comp	
<b>Total Hours</b>		<b>48-60</b>

1

Course Sequence: COU 813 Prof Orient & Ethics in Course, COU 840 Counseling Theory and Practice, and COU 846 Process and Basic Tech Counsel must be taken in semester sequence or as corequisites.

2

3-9 hours if internship is taken over 2-3 semesters

A grade of B or higher is required in every course for degree completion for M.A.Ed. in School Counseling.

Provisional Counseling Certification is available with Masters Degree in School Counseling

The provisional certificate for school counselors is issued for a period of five years or will be replaced with the completion of the 54-hour planned program for the Standard Certificate in School Counseling.

## School Leadership, Master of Arts in Education (M.A.Ed.)

### General Information

The School Leadership program is designed to prepare teachers to be educational leaders. The specific goal is to provide additional preparation needed for principal certification. The 30 hour minimum requirement is a structured program. Candidates will be eligible to apply for level I and level II principal certification and/or rank change upon completion of this program and passing state required licensure exams.

### Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial teaching certification program. Admission to the Masters of Arts in School Leadership degree program includes:

1. documentation of three (3) years teaching experience,
2. provision of two letters of recommendation from school/ district supervisors and one (1) letter from a district official pledging support for the clinical experiences,
3. provision of a written statement indicating ability to improve student achievement, to lead, and possession of advanced knowledge of curriculum, instruction, and assessment, and
4. completion of an interview.

### Program Requirements

CIP Code: 13.0404

Code	Title	Hours
<b>Core Courses</b>		
EAD 801	Intro to Ed Adm & Ld Rsch	3
EAD 819	Sch Lead & Inst. Super	3
EAD 827	Finance and Support Services	3
EAD 828	School Law and Ethics	3
EAD 829	Comm Relations & Ed Advocacy	3
EAD 840	Leadership for Safe Schools	3
EAD 851	Assessment for Learning	3
EAD 852	Human Resource Leadership	3
EAD 856	Learning for At-Risk Students	3
<b>Exit Requirements</b>		
EAD 857	Principal Internship I	3
GRD 878Q	MAED Instr Ldrshp Oral Comp	0
<b>Total Hours</b>		<b>30</b>

## Exit Requirements

Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C. A field-based research project, which culminates in a technology-enhanced presentation, is required in the Capstone, EAD 857 Principal Internship I, GRD 878Q MAED Instr Ldrshp Oral Comp

## Certification Requirements

To be recommended for principal certification and/ or rank change, all candidates must meet the requirements for admission to professional education, complete the approved leadership curriculum, and pass the required PRAXIS tests.

Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Certification at (502) 564-5846.

## Additional Certification Options

### Supervisor of Instruction

The **Supervisor of Instruction** program prepares instructional supervisors for district-wide leadership. Initial certification for supervisor of instruction requires completion of an approved master's degree, the courses required for Level II principal certification, and three years of teaching experience.

Code	Title	Hours
<b>Certificate Requirements</b>		
EAD 849	School Systems Administration	3
EAD 853	Conditions of Learning	3
EAD 859	Instruc Plnng for Stu Lrng	3
EAD 879	Systems for Change	3
EDL 944	Public Policy & Politics	3
<b>Total Hours</b>		<b>15</b>

(Level I principal courses required.)

### Director of Pupil Personnel

The **Director of Pupil Personnel** program prepares directors and assistant directors of pupil personnel services for school district-wide leadership. Initial certification for director of pupil personnel services requires

completion of an approved master's degree, the courses required for Level I principal certification, and three years of teaching experience.

Code	Title	Hours
<b>Certificate Requirements</b>		
EAD 808	Admin of Pupil Pers Services	3
EAD 821	Pract in Admin & Supervision	3
EAD 849	School Systems Administration	3
EDL 950	Educating and Supporting Diverse Student Populations	3
EDL 954	Found & Cur Issues in Ed Leade	3
<b>Total Hours</b>		<b>15</b>

(Level I principal courses required.)

### Superintendent of Schools

The **Superintendent of Schools** program prepares highly qualified candidates for district-wide leadership. Initial certification for school superintendent requires completion of an approved master's degree, the courses required for Level II principal certification, three years of teaching, and two years of administrative experience.

Code	Title	Hours
<b>Certificate Requirements</b>		
EAD 839	The School Superintendency	3
EAD 849	School Systems Administration	3
EAD 859	Instruc Plnng for Stu Lrng	3
EAD 879	Systems for Change	3
<b>Total Hours</b>		<b>12</b>

(Level II principal courses required.)

## Secondary School Counselor Seeking Elementary School Counseling Endorsement Preparation Program

### Endorsement Preparation Programs

These are programs of study which do not lead to a degree or to an ECU awarded recognition but instead prepare the student, upon recommendation from ECU, for professional endorsement by the Commonwealth of Kentucky Education Professional Standards Board.

## Program Requirements

Code	Title	Hours
<b>Core Courses</b>		
COU 814	Admin & Cnslttn in Cnslng Srvc	3
COU 825	Dvlpmntl COU w/ Schl Age Child	3
Choose from six hours of approved electives		6
<b>Total Hours</b>		<b>12</b>

## Department of Teaching, Learning, & Educational Leadership

Dr. Nicola Mason, Chair and ECU Coordinator  
Dr. Sonja Yow, Associate Chair

## Graduate Advisors

Dr. April Blakely, MAED Elementary, Middle and Secondary Education, Gifted Education, and Additional Certifications

Dr. Ralph Turner, Library Science Coordinator and Rank I

Emily Zuccaro, Graduate Coordinator English as a Second Language endorsement and Literacy (P-12)

Dr. Maria Manning, LBD

Dr. Michelle Grempe, DHH

Dr. Julie Rutland, MAT & IECE

Dr. Mary Jo Krile, MSD

Dr. Ray Lauk, Leadership Programs Coordinator

Dr. Todd McCardle, Ed.D. Coordinator

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(859) 622-2154

## General Information

The Department of Teaching, Learning, & Educational Leadership is responsible for program advisement and development in elementary education, middle grade education, gifted education, reading/writing, secondary education, special education, and library science. Programs of study may lead to the Master of Arts in Education degree, Rank II, Rank I, and Master of Arts in Teaching degree (Initial Certification).

The secondary education program, in cooperation with appropriate departments throughout the University, offers specific programs in agriculture, art, biology, business education, English, family and consumer science, mathematics: mathematics education, music, physical education, physical science: chemistry, earth science, or physics, school health, social studies: history, and technology.

The Department of Teaching, Learning, & Educational Leadership offers a variety of choices (MAEd -Teacher Leader<sup>1</sup>, Rank I<sup>1</sup>, General Education Certification) to candidates who wish to extend or add to their certificates due to personal choice or changes in school configurations within their districts. Candidates who seek to add an additional area of certification are asked to contact the department for specific program information and review of their current credentials.

- **Middle School** (Grades 5 through 9) - Preparation includes either one or two teaching fields selected from English and communications, mathematics, science, or social studies.
- **Secondary School** (Grades 8 through 12) - Preparation includes one or more of the following specializations: English, mathematics, social studies, chemistry, physics, biology, or earth science.
- **Middle/Secondary School** (Grades 5 through 12) - Preparation includes one or more of the following specializations: agriculture, business and marketing education, family and consumer science, industrial education, or engineering and technology.
- **Elementary/Middle/Secondary School** (Primary through Grade 12) - Preparation includes one or more of the following specializations: art, foreign language, gifted education, health, literacy (reading/writing), physical education, music, or school librarian.

Candidates are also encouraged to explore the TC-HQ option for adding certification provided by the Education Professional Standards Board (EPSB) for areas in English, mathematics, sciences, foreign languages, or social studies. Health and physical education areas may be added only for those teachers holding the correlative certificate.

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Based upon individual credentials, may include additional graduate or undergraduate coursework beyond the degree or rank requirement.

The Department also offers degree and non-degree graduate program including the doctoral degree (Ed.D) with the option of two concentrations (Leadership and Policy Studies or Curriculum Leadership for Social Justice) and a Master's Degree in Instructional Leadership, School Counseling, Student Personnel Services in higher Education, and Educational Specialist Degree in Educational Administration and Supervision. Certification programs include the Principalship, Supervisor, Superintendent, and Pupil Personnel Services. Through completion of the degree or certification programs, students may earn a chance in their rank status.

The Counselor Education program offers graduate programs in school counseling and provides graduate instruction in the common core areas required of many Master's degree programs in education and related fields.

The Department of TLEL also offers undergraduate coursework in Human Services (HSR courses).

## Master of Arts in Education (M.A.Ed.)

### Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial elementary, middle grades, or secondary/P-12/5-12 Kentucky teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Master's

- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Agriculture (Grades 5-12) (M.A.T.) (p. 654)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Art (P-12) (M.A.T.) (p. 656)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Biological Science (8-12) (M.A.T.) (p. 657)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Business and Marketing (5-12) (M.A.T.) (p. 659)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Chemistry (8-12) (M.A.T.) (p. 661)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Deaf and Hard of Hearing Education (M.A.T.) (p. 662)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Earth Science (8-12) (M.A.T.) (p. 664)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Elementary Education P-5 Teaching (M.A.T.) (p. 666)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Engineering & Technology Education (5-12) (M.A.T.) (p. 667)

- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in English (8-12) (M.A.T.) (p. 669)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Family and Consumer Sciences (5-12) (M.A.T.) (p. 671)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in French (P-12) (M.A.T.) (p. 672)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Health Education (P-12) (M.A.T.) (p. 674)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Interdisciplinary Early Childhood Education (M.A.T.) (p. 676)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Mathematics (8-12) (M.A.T.) (p. 677)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Middle Grades 5-9 Teaching (M.A.T.) (p. 679)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Music (P-12) (M.A.T.) (p. 681)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Physical Education & Health Dual Certification (P-12) (M.A.T.) (p. 682)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Physical Education (P-12) (M.A.T.) (p. 684)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Physics (8-12) (M.A.T.) (p. 686)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Social Science (8-12) (M.A.T.) (p. 687)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Spanish (P-12) (M.A.T.) (p. 689)
- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Theatre (P-12) (M.A.T.) (p. 691)
- Elementary Education, Master of Arts (M.A.Ed.) (p. 693)
- Gifted Education, Master of Arts (M.A.Ed.) (p. 694)
- Literacy P-12, Master of Arts in Education (M.A.Ed.) (p. 696)
- Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Certification Area Specialization (M.A.Ed.) (p. 697)
- Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Dual Credit Content Preparation (M.A.Ed.) (p. 698)
- Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Dual Credit Instructional Computer Technology Teaching Preparation (M.A.Ed.) (p. 698)
- Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in English as a Second Language Endorsement (Grades P#12) (M.A.Ed.) (p. 699)
- Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Gifted Education Endorsement (Grades P#12) (M.A.Ed.) (p. 700)
- Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Instructional Computer Technology Endorsement (Grades P#12) (M.A.Ed.) (p. 701)
- Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Literacy Specialist Endorsement (Grades P#12) (M.A.Ed.) (p. 702)
- School Librarian, Master of Arts in Education with a Concentration in Additional Certification (M.A.Ed.) (p. 704)
- School Librarian, Master of Arts in Education with a Concentration in Endorsement (M.A.Ed.) (p. 705)
- Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Certification Area Specialization (M.A.Ed.) (p. 706)
- Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in English as a Second Language (Grades P#12) Endorsement (M.A.Ed.) (p. 707)
- Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Gifted Education (Grades P#12) Endorsement (M.A.Ed.) (p. 708)
- Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Literacy Specialist (Grades P#12) Endorsement (M.A.Ed.) (p. 708)
- Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Preparation to Teach Dual Credit Music (M.A.Ed.) (p. 709)
- Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Preparation to Teach Dual Credit # Other Subject Area Concentrations (M.A.Ed.) (p. 710)
- Special Education, Master of Arts in Education (M.A.Ed.) (p. 711)

## Certificate

- Deaf and Hard of Hearing Certification (p. 692)
- Interdisciplinary Early Childhood Education Certification (IECE) (p. 695)
- Learning and Behavior Disorders Certification (p. 695)
- Moderate and Severe Disabilities Certification (p. 703)

## Non-Degree

- English as a Second Language (Grades P-12), Endorsement Preparation Program (p. 694)
- Gifted Education (Grades P-12), Endorsement Preparation Program (p. 694)
- Literacy Specialist (Grades P-12), Endorsement Preparation Program (p. 697)
- Rank I (Sixth Year) Program (p. 703)
- Teacher Leader, Endorsement Preparation Program (p. 713)

## Courses

### Educational Core

#### EDC 810. P12 ED/Tech: Critical Issues. (3 Credits)

Online. Introduction to research about integration of technology into P-12 school systems. Students will also investigate current and future technology advancements in hardware, software, networking, support, and training. Basic issues relating to legal and ethical issues relative to technology will also be introduced.

#### EDC 811. P12 Ed/Tech: multimedia Design. (3 Credits)

Online. Corequisite: EDC 810. Introduction to multimedia-authoring approaches and research in electronic formats. Students will create web-based instructional courseware. All students will produce and publish a classroom, school, or other education related website.

#### EDC 812. P12 ED/Tech: Online Learning. (3 Credits)

Online. Corequisite: EDC 810. Understand and apply principles and best practices in online learning as a medium for adding online activities in the P-12 classrooms. Students will evaluate open source software and develop an online course or unit of study using a selected open source system.

#### EDC 813. P12 ED/Tech: Capstone. (3 Credits)

Online. Prerequisites: EDC 810, 811, and 812. Students will synthesize and integrate theories and practices learned from the three previous courses in the program and apply them toward the development of a culminating educational technology project appropriate to the P-12 environment.

### Educational Foundations

#### EDF 804. Teaching and Leading with Tech. (2 Credits)

(2) I, II. Co-requisite: ETL 806. The applications of technology for teaching and learning in educational settings, including uses for promoting interactive engagement, reflection and inquiry, diversity and equity, and leadership.

#### EDF 807. Educational Studies:\_\_\_\_\_. (1-3 Credits)

A. Prerequisite: advisor/departmental chair approval. Independent work, workshop, special topics, or seminars. May be retaken under different subtitles.

#### EDF 837. Comparative Education. (3 Credits)

A. Study of the development of educational thought and practice in selected nations of Europe, Asia, Africa, and South America. Emphasis will be placed on intellectual, historical, and sociological factors.

#### EDF 839. Human Development & Learning. (3 Credits)

The study of various theories of human behavior, development, and learning. Emphasis is placed on current research and theories with special emphasis on different ethnic, cultural and social backgrounds and physical and mental exceptionality of children and youth.

#### EDF 855. Found of Multicultural Educati. (3 Credits)

A. Examination of the education implications of cultural pluralism in America and selected societies of the world.

### Early Elementary Education

#### ELE 707. Problems in Ele Education. (1-3 Credits)

A. Prerequisite: advisor/departmental chair approval. Independent work, special workshops, special topics, or seminar.

#### ELE 719. Teaching in the Kindergarten. (3 Credits)

A. Focuses upon leaders and literature of kindergarten education including historical movements, organizations, curricula, equipment, and procedures used with normal, developmentally different, and multicultural children.

#### ELE 807. Elementary Education:\_\_\_\_\_. (1-3 Credits)

A. Prerequisite: advisor/departmental chair approval. Independent work, workshops, special topics, or seminars. May be retaken under different subtitles.

#### ELE 808. Reading Recovery in Elem Ed. (3 Credits)

Independent work, workshops, or seminars related to the use of Reading Recovery® in Elementary Education. Course is restricted to the Reading Recovery® cohort.

#### ELE 810. Elementary School Curriculum. (3 Credits)

I, II. Study in depth of principles, materials, and procedures in current curriculum development and revision in the elementary school.

#### ELE 820. Literacy Foundation P-5. (3 Credits)

Intensive study of methods and materials appropriate for developing emergent, primary, and transitional literacy in grades P-5.

#### ELE 821. Literacy Instr. & Assess P-5. (3 Credits)

I, II. Pre-requisite: ELE 820. Co-requisite: CED 840. An examination of current trends and problems related to literacy instruction and assessment in grades P-5. Major emphasis on teaching and assessing reading, listening, writing, speaking, grammar, spelling, and handwriting.

#### ELE 822. Mathematical Foundations P-5. (3 Credits)

An overview of the mathematics state standards for teaching mathematics in grades K-5, and theories and research related to teaching and learning mathematics.

#### ELE 823. Math Content, Ped, & Assessmen. (3 Credits)

I, II. Prerequisite: ELE 822. Co-requisite: CED 840. An examination of mathematics for grades P-5 and relevant content, standards, instructional practices, and assessments for learners in this grade span.

#### ELE 824. Science Cont, Ped & Asses P-5. (3 Credits)

I, II. Co-requisite: CED 840. Inquiry-based course focusing on content, pedagogy, and materials for teaching science concepts in primary through grade five.

#### ELE 825. Soc Stud Cont, Ped, & Assessme. (3 Credits)

I, II. Co-requisite: CED 840. This course teaches the content and pedagogical content knowledge in geography, US and world history, government, and civics, cultures, and economics included in elementary state curricula and the Common Core State Standards.

#### ELE 826. Integrating Arts, Hum, & Pract. (2 Credits)

I, II. Study of integrated elementary arts, humanities and practical living skills. Create, reflect upon, and implement essential age-appropriate instruction integrated with elementary content area studies.

#### ELE 827. Integrated Thematic Teaching. (2 Credits)

I, II. Exploration of integrated thematic teaching curriculum focused on making connections through the unification of multiple subjects and experiences.

**ELE 871. Literacy Programs P-5. (3 Credits)**

A. Prerequisite: Admission to Master of Arts in Education, Master of Arts in Teaching, Rank 1, an Endorsement Preparation Program (Elementary Mathematics Specialist, English as a Second Language, Gifted Education, Literacy Specialist, or Reading), or a Certification Preparation Program (Elementary, Middle Grades, Secondary, School Media Librarian, Deaf and Hard of Hearing, Interdisciplinary Early Childhood Education, Learning and Behavior Disorders, or Moderate and Severe Disabilities). Intensive study of methods and materials appropriate for developing emergent, primary, and transitional literacy in grades P-5. (Minimum of 10 clinical hours required.)

**ELE 897. Independent Study. (1-3 Credits)**

I, II. Primarily for advanced graduate students who desire to investigate special problems relating to elementary education. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**Early Elementary/Middle School****EME 710. Art in the Curriculum. (3 Credits)**

A. Elements of the discipline, creativity, aesthetics, theory, philosophy and instructional facilities will be explored. Individual explorations of research and media.

**EME 751. Linguistics in the Curriculum. (3 Credits)**

A. Investigations of elements in the science of linguistics and their application to communication skills of students.

**EME 786. Teaching of Health in P-8. (3 Credits)**

A. Prerequisites: admission to teacher education and major in school health. Developmentally appropriate curriculum, materials, and methods for the health P-8 program. Minimum of twenty field/clinical hours.

**EME 796. P E for Children and Youth. (3 Credits)**

A. Comprehensive review of techniques used in teaching physical education in the early elementary and middle grades. Emphasis placed on health, evaluation, fitness testing, rhythmical activities, game activities, tumbling and self-testing.

**EME 843. Mathematics Intervention Strat. (3 Credits)**

A. Cross-listed as MAE 843. In-depth analysis of teaching resources, teaching strategies, and appropriate mathematics curriculum content for intervention. Credit will not be awarded for both EME 843 and MAE 843.

**EME 852. Teaching Grammar and Punct.. (3 Credits)**

(II.) Explore linguistic diversity and its impact on language development. Develop and evaluate contextualized, research-based language instructional approaches. Develop instructional plans to improve elementary and middle grades students' use of standard written and oral English. Credit will not be awarded to students who have credit for EME 752.

**EME 861. Art in Elem & Middle Grade P-8. (3 Credits)**

Pre-requisites: Admission to MAT program, concentration in art. Developmentally appropriate curriculum, materials, and methods for the P-8 Art program. Minimum of 10 clinical hours are required.

**EME 863. Social Sci in the Curriculum. (3 Credits)**

A. Emphasis on social science disciplines in the curriculum. New developments in social studies curricula are explored.

**EME 865. Investigations in Reading. (3 Credits)**

A. Prerequisite: ETL 802 or 805; Chair approval. Refine and implement a literacy focused action inquiry project. (Up to 40 hours of field experience may be required within candidates' own classroom or educational setting). Credit will not be awarded for EME 865 and ETL 804 or ETL 806.

**EME 866. Investigations in Mathematics. (1-3 Credits)**

A. Critical study of investigative and theoretical literature dealing with the teaching of mathematics.

**EME 870. Trends in Science Education. (3 Credits)**

A. Exploration of modern trends, practices, and foundation programs drawn from appropriate disciplines which relate to the teaching of science.

**EME 872. Mathematics in the Curriculum. (3 Credits)**

A. Cross-listed as MAE 872. Exploration of trends, concepts, and issues involved in modern mathematics programs. Research findings are examined and multi-sensory materials are presented. Credit will not be awarded to students who have credit for MAE 872.

**EME 873. Research Based Rdg. Inst.. (1-3 Credits)**

A. Advanced study of methods, materials, and organizational procedures appropriate for teaching developmental reading.

**EME 874. Lang Arts in the Curriculum. (3 Credits)**

A. Examination of current trends and curriculum problems related to teaching of language arts. Emphasis on listening, oral and written expression, spelling and handwriting. (Minimum of 10 clinical hours required.)

**EME 876. Investgtns in Sci.Ed/Ind.Study. (3 Credits)**

A. Prerequisite: instructor approval. Individual research and study of investigative and theoretical literature dealing with the teaching of science. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**EME 877. Practicum for Read Specialists. (3 Credits)**

A. Prerequisites: EMS 868 and 875. Supervised experience for reading specialists in diagnosing and instructing students with reading difficulties.

**EME 878. Teaching Music in Grades P-8. (3 Credits)**

Prerequisites: Admission to MAT program, major in music concentration. Developmentally appropriate materials and methods for teaching P-8 music. Minimum of 20 clinical hours are required.

**Middle Grade Education****EMG 707. Problems in Middle Grade Educ.. (1-3 Credits)**

A. Prerequisite: approval of advisor. Independent work, workshops, special topics, or seminar. May be taken for a maximum of six hours under different subtitles.

**EMG 806. Read Instruction Middle School. (3 Credits)**

A. Prerequisite: a course in foundations or reading/language arts instruction. Comprehensive study of materials and strategies for teaching reading in the middle grades with special emphasis on reading in the content areas. (Minimum of 10 clinical hours required)

**EMG 807. Middle Grade Education: \_\_\_\_\_. (1-3 Credits)**

A. Independent study, special workshops, topics, or seminars. May be retaken for a maximum of six hours under different subtitles.

**EMG 810. Curriculum in Middle School. (3 Credits)**

A. A study of the physical, social, emotional, and intellectual needs unique to the middle grade student and their implications for courses of study, the learning environment, and teacher characteristics.

**EMG 897. Independent Study. (1-3 Credits)**

A. Offered for advanced graduate students who desire to investigate special problems related to middle grade education.

## Early Elementary/Middle/Secondary Education

### EMS 702. Music Tech Teaching Methods. (2 Credits)

I. Cross listed with MUE 702. Prerequisite: Instructor approval. Development of strategies and techniques for teaching music through digital pedagogy. Ideas for developing musicianship through hands-on student involvement, as well as the use of technology to aid in instruction and delivery in the music classroom. Credit will not be awarded for both EMS 702 and MUE 702.

### EMS 761. Environmental Education Essen. (3 Credits)

(3) I. This course delves into the philosophy, historical development, resource identification and curriculum development of environmental education. Credit will not be awarded for both EMS 761 and EMS 561.

### EMS 763. Teaching Environmental Educati. (3 Credits)

(3) Summer Only. Appropriate methods and materials for effective environmental education in a variety of settings. Credit will not be awarded for both EMS 563 and EMS 763.

### EMS 764S. Service Learning as Pedagogy. (3 Credits)

(3) A. Classroom service learning strategies and techniques will be modeled. Discussion about practical applications and reflection on class activities will follow. An environmental service learning project will be planned and carried out during the course.

### EMS 765S. Teaching in the Outdoors. (3 Credits)

(3) Summer Only. Basic Principles of outdoor teaching will be combined with outdoor skills and an environmental service learning investigation. Due to its content, this will be taught in workshop format during the summer semester. Credit will not be awarded for both EMS 565S, EMS 864s, and EMS 765S.

### EMS 775. Methods for Multilingual Learners. (3 Credits)

A. The study of effective methods of Teaching English as a Second Language (TESL). Thirty hours of field experiences are required. This course aims to enable you to critically examine, analyze, and apply theories and methodologies used in multilingual teaching. The ultimate purpose/objective of this course is to help you acquire the pedagogical competency repertoire needed to enhance and maximize learning for your multilingual learners.

### EMS 776. Assessment Methods for ELLs. (3 Credits)

(3) (II) This course is designed to examine the major principles and methods of assessment for English Language Learners, including standardized testing, classroom-based performance, and alternative assessment. Sociocultural issues related to assessment will also be explored. (20 hours of clinical experience required). Credit will not be awarded to students who have credit for EMS576.

### EMS 777. Culturally and Linguistically Responsive Teaching. (3 Credits)

(3) (II). The purpose of this course is to help educators develop awareness of the implications of cultural and linguistic diversity for school success as well as effective techniques for collaborating with immigrant students and families. Credit will not be awarded to students who have completed EMS 577.

### EMS 810. Emerging Instructional Technol. (3 Credits)

I, II. Technological applications to education, training, and instruction within educational settings. Students examine, develop, and/or evaluate emerging instructional technologies.

### EMS 818. Effective Inst Models & Pract. (3 Credits)

A. A course designed to help students examine, evaluate, and apply recent research findings related to effective instruction and schools.

### EMS 830. Multicultural Pop/School Curr. (3 Credits)

A. Exploration of ethnic and family backgrounds, class structure, patterns of living, language characteristics, and teacher-pupil attitudes as they relate to the school experience.

### EMS 842. Discipline & Classroom Mgt. (3 Credits)

A. Knowledge and skills necessary for establishing and maintaining positive relationships in the classroom; disciplinary concerns of teachers. Theoretical and tested knowledge in personal behavior and communication skills systems examined for practical and effective application.

### EMS 846. Social Studies Investigation. (3 Credits)

(3) A. Critical study and application of investigative and theoretical literature dealing with the teaching of social sciences.

### EMS 850. Curr. for Leaders in Education. (3 Credits)

A. A course focusing on definition, planning, implementation, and assessment of P-12 curricula. Designed for students pursuing programs in Instructional Leadership.

### EMS 853. Creativity in the Classroom. (3 Credits)

A. Designed to offer students experience with creativity as a necessary component in learning for the gifted as well as all children. Creativity will be modeled in class format and teaching strategies.

### EMS 854. Soc & Emotional Dev of Gifted. (3 Credits)

A. Focuses on the need for affective education of gifted students in a classroom context. Candidates will examine social and emotion issues, review models, and practice differentiated classroom strategies.

### EMS 855. Gifted and Talented Youth. (3 Credits)

A. Survey of the unique characteristics of gifted and talented youth, methods of identification, and educational needs.

### EMS 856. Curr in Gifted/Talented Educat. (3 Credits)

A. Models for gifted and talented curriculum development, gifted and talented curriculum projects and teaching strategies, state and national curricular guidelines for gifted and talented instruction, program delivery options, and technological support are major topics.

### EMS 857. Model Prog-Gifted/Talented Edu. (3 Credits)

A. Examination of school and district wide programs for gifted and talented students including program delivery options, staff development, and development of critical and creative thinking skills.

### EMS 858. Practicum-Gifted & Talented Ed. (3 Credits)

A. Prerequisites: EMS 855, 856, 857. Supervised teaching experience with gifted/ talented students. Provides students opportunities to apply knowledge and skills in classroom settings. Students will participate in program planning, implementation, and evaluation.

### EMS 861. Environmental Educ Essentials. (3 Credits)

A. Exploration of the philosophy, historical development, resource identification and curriculum development of environmental education.

### EMS 863. Teaching Environmental Educ. (3 Credits)

A. Appropriate methods and materials for effective environmental education in a variety of settings.

### EMS 864S. Teaching in the Outdoors. (3 Credits)

A. Basic principles of outdoor teaching combined with outdoor skills and an environmental issue service-learning investigation. Due to its content, this will be taught in workshop format during the summer. Service learning activities required.

### EMS 868. Inst Tech & Mat for St Rdg Dif. (3 Credits)

A. Prerequisite: ELE 871, EME 873, EMG 806, or ESE 884. Methods, materials and techniques appropriate for correction of reading problems.

**EMS 870. Literacy Consulting. (3 Credits)**

A. An introduction to the roles, skills, responsibilities and dispositions needed for successful literacy consulting in grades 4-12.

**EMS 871. Literacy Consulting Practicum. (3 Credits)**

A. Prerequisite: EMS 870. Supervised experiences for literacy consultants working in schools to provide instructional support and professional development in the language arts to teachers across the curriculum.

**EMS 873. Trends & Issues in ELA. (3 Credits)**

(3) I. A study of current trends and issues in the six language arts: reading, writing, speaking, listening, viewing, and visually representing. Current theories, relevant research and practical applications are considered in relation to language arts in the K-12 classroom. (Minimum of 10 clinical hours required.)

**EMS 874. Disciplinary Literacy. (3 Credits)**

III. Prerequisites: EGC 820 and EGC 830. Corequisite: CED 830. Emphasis on developmental and content area reading skills, appraisal of content reading abilities, appropriate materials, instructional strategies and assessment.

**EMS 875. Literacy Assess and Instruct. (3 Credits)**

A. Prerequisite: ELE 871, or, EMG 806, or by departmental approval. Theory and implementation of assessment and instruction teaching students with a range of abilities in reading. Emphasis on assessing types and degree of reading strengths and needs, identifying contributing factors., and planning/implementing instruction to meet students' diverse needs and skills. Field/Clinical Experiences: 10 hours.

**EMS 876. Lit., Lead. & Advocate. (3 Credits)**

(3) II. Prerequisites: EMS 875. A culminating course for the program, this is the study of models of literacy leadership (e.g., coaching, mentoring) and how to create need-based literacy plans to assist practicing teachers in P-12 literacy. Field/Clinical Experiences: 20 hours.

**EMS 878. Mathematics Assessment P-12. (3 Credits)**

(3) A. Theory of application of a constructivist approach to mathematics assessment. Emphasis on accessing types and degree of math disabilities, identifying how children construct mathematical knowledge, and planning/implementing instruction to address students' needs.

**EMS 880. Early Ele/Middle Grd/Second Ed. (3 Credits)**

A. Prerequisite: teaching experience. For school and college personnel concerned with improving student teaching experiences.

**EMS 889. Specialist in Ed Capstone. (3 Credits)**

A. Prerequisites: ETL 802 or EDL 810 and EDL 811. Completion of minimum of 24 hours in Ed.S. program. Multimedia presentation of a research project related to. Reflections on individual professional development related to Advanced Kentucky Teacher Standards.

**Education - Teacher Leader****ETL 800. Leadership Skills for Teachers. (3 Credits)**

A. In-depth study of the key concepts, theories, practices, and procedures of teacher leaders in educational environments. This course must be retaken within the first six hours of a candidate's program. (Minimum of 14 clinical hours required.)

**ETL 801. Leading Achievement Change. (3 Credits)**

A. Pre-req/co-req: ETL 800. The study of change theory and its application in educational settings by educational leaders, teacher leaders, professional staff, support staff, students and communities to improve student achievement. 14 field hours required.

**ETL 803. Curriculum for Teacher Leaders. (3 Credits)**

A. Prerequisites/Corequisites: ETL 800. Candidates will conduct curriculum alignment and development that encompasses analysis and justification for applied curriculum at the appropriate level. Candidates will develop formative and summative assessments. They evaluate reasearch-based instructional strategies for all learners. (Field work 13 hours).

**ETL 805. Research Metho for Educ Profes. (3 Credits)**

A. Formerly ETL 802. Prerequisites: Chair Approval. This course introduces research methods in education. Candidates create a research proposal. With a focus on student learning, student achievement, or school improvement. Repeatable to 9 hours.

**ETL 806. Teacher Leader Capstone. (1-3 Credits)**

A. Formely ETL 804. Prerequisite: ETL 805 (for MAED majors) or EGC 847 (for MAT majors). Candidates will refine a research project begun in ETL 805 or EGC 847. Candidates will collect, analyze, and interpret data related to the impact on student learning and make a final presentation. (Minimum of 40 clinical hours required for advanced licensure candidates. Repeatable for a max of 6 hr.)

**Secondary Education****ESE 707. Problems in Secondary Edu. (1-3 Credits)**

A. Prerequisite: advisor/ departmental chair approval. Independent work, special workshops, special topics, or seminars.

**ESE 740. Teaching Art in the Schools. (3 Credits)**

I. Cross-listed as AED 740. Prerequisite: admission to the MAT program. Corequisite: CED 840. Developmentally appropriate materials and methods for teaching art in the schools. Maximum number of repeatable hours: 6. Credit will not be awarded for both ESE 740 and AED 740.

**ESE 743. Teach/Lang Arts in the Sec Sch. (3 Credits)**

I. Prerequisites: admission to the MAT program. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching language arts in the secondary school.

**ESE 749. Teach/Soc Stud in the Sec Sch. (3 Credits)**

I. Prerequisites: admission to the MAT program, a "B" or higher in EGC 820 and EGC 830, and a major in the social sciences. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching social sciences in the secondary school.

**ESE 750. Teach of Mat in the Sec Sch. (3 Credits)**

I. Cross-listed as MAE 750. Corequisite: CED 840. Developmentally appropriate materials and methods for teaching mathematics and computer science in secondary schools. Credit will not be awarded to students who have credit for MAE 750 and ESE 750.

**ESE 752. Teach/Car/Tech Edu/midd/Sec Sc. (3 Credits)**

I. Prerequisite: admission to the MAT program. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching career and technical education in the middle and secondary schools.

**ESE 753. Family & Consumer Sci Edu Cur. (4 Credits)**

I. Prerequisite: admission to the MAT program. Corequisite: CED 840. Developmentally appropriate materials and methods for teaching family and consumer sciences education curriculum in the secondary schools.

**ESE 761. Teach Sci in Secondary School. (3 Credits)**

I. Prerequisite: Admission into the secondary MAT program. Co-requisite: CED 840. Designed to introduce prospective teachers to the modern materials and methods of teaching biological and physical science at the secondary level.

**ESE 766. Teach Hlth/Phy Educ in Schools. (3 Credits)**

I. Prerequisites: admission to the MAT program with a major in health and physical education. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching physical education in the secondary schools.

**ESE 773. Teach Bus & Mar in Midd & Sec. (3 Credits)**

I. Prerequisite: admission to the MAT program. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching business and marketing education.

**ESE 779. Music Educ: Principles & Pract. (3 Credits)**

I. Cross-listed with MUE 779. Prerequisites: admission to the MAT program or a music certification program and MUS 750. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching music education in secondary schools. Credit will not be awarded to students who have credit for MUE 779.

**ESE 787. Teach of Health Educ in Sec Sc. (3 Credits)**

I. Prerequisites: admission to the MAT program with a major in health education. Developmentally appropriate materials and methods for teaching health education in secondary schools. Minimum of 96 field/clinical hours.

**ESE 807. Secondary Education:\_\_\_\_\_ (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Independent work, workshops, special topics, or seminars. May be retaken under different subtitles.

**ESE 849. Trends and Mat in Soc Stu. (3 Credits)**

A. Designed to broaden the horizons of secondary social studies teachers. Attention focused on new curriculum materials, simulation, videotaped microteaching. Participants will be actively involved, and consultants will assist in areas of particular interest.

**ESE 850. Trends in Secondary Math. (3 Credits)**

I Crosslisted as MAE 850. An examination of curricular trends, modern programs, appropriate strategies, and innovative materials in secondary mathematics. Credit will not be awarded to students who have credit for MAE 850.

**ESE 863. Secondary School Curriculum. (3 Credits)**

II. Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

**ESE 864. Special Problems in FCS Ed.. (1-3 Credits)**

Formerly: ESE 766. Student must have independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ESE 884. Content Literacy. (3 Credits)**

A. Prerequisites: Admission to Master of Arts in Education or Master of Arts in Teaching or any teacher certification (Rank I or endorsement) programs. Emphasis on developmental and content area reading skills, appraisal of reading abilities, appropriate materials, assessment, and organization of secondary reading program. Minimum of 10 clinical hours.

**Special Education****SED 704. Assistive/Adaptive Technology. (3 Credits)**

I, A. Classroom use and modification of and assistive/adaptive devices. Integration of assistive technology into assessments, IEPs, lesson plans, educational activities, and daily routines. Lab.

**SED 738. Languag of Deaf & Hrd of Hring. (3 Credits)**

(3) A. Prerequisite: SED 722 or instructor approval. Receptive and expressive conversational language development and written language acquisition from a developmental perspective. Concepts in bilingual applied to the deaf. Methods to assess and facilitate language development.

**SED 774. Field Exp with Excep Learners. (3 Credits)**

A. Prerequisite: departmental approval. A practical experience with exceptional individuals. Emphasis is directed at behavior management, educational assessment, and IEP/IFSP.

**SED 777. Dual Sensory and Communication. (3 Credits)**

II, A. Prerequisites: SED 260 (or 522/722), 304, and 353/352 (teacher certification for SED 777), or instructor approval. Assessment, planning, and instruction for students with dual sensory impairments and severe cognitive disabilities. Augmentative and alternative communication methods, materials, and devices. Milieu language strategies, symbolic and nonsymbolic communication in natural environments and daily activities.

**SED 780. Audiology for Teachers of DHH. (3 Credits)**

Physics of sound; anatomy, physiology, pathology and medical treatment of the auditory system; introduction to the audiometer and basic pure-tone and speech (auditory) testing; hearing aids and devices.

**SED 781. Speech F/T Deaf & HH. (3 Credits)**

A. Prerequisite: SED 780 or instructor approval. Acoustic articulation, rhythm, phrasing, accent, fluency, effects of impairment on speech, speech reading, auditory training.

**SED 800. Exceptl Learners Gen Ed Class. (3 Credits)**

A. Open only to non LBD, MSD, and DHH majors. Characteristics of students with disabilities, identification procedures, and instructional strategies. Salient features of PL94-142, IEP, roles and responsibilities of general education educators.

**SED 801. Adv Early Childhood Assessment. (3 Credits)**

A. Identification and diagnostic procedures of development delay and at-risk conditions in infants, toddlers, and preschoolers. Continuous assessment of children's developmental, instructional, behavioral, and environmental needs; evaluation of effectiveness of services and family involvement.

**SED 802. Adv Early Childhd Intervn Prog. (3 Credits)**

A. Advanced curriculum and program development for infants, toddlers, and preschoolers in school centers or home settings, including collaboration with families and professionals, continuous assessment, and program evaluation.

**SED 804. Educl Mgt of LBD Students. (3 Credits)**

A. Prerequisite: certification in special education or department chair approval. Advanced management and programming for pupils with learning and behavior disorders. Selection, adaptation, development and evaluation of instructional approaches, methods and materials based on current research and best practice. Appropriate field experience required.

**SED 805. Roles of Special Educators. (3 Credits)**

A. Prerequisite: certification in special education or department chair approval. Focuses on roles of special educators in alternative settings, utilizing related services, and working with parents. Emphasis on interpersonal relationships and professional development.

**SED 807. Special Education. (1-3 Credits)**

A. Independent work, workshops, special topics, or seminars. May be retaken under different subtitles. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**SED 808. Spec Ed Early Childhood Survey. (3 Credits)**

I. Formerly SED 718. Overview of history, philosophy, legislation and services for young children (0-5) at-risk for or with disabilities, including impact and intervention across developmental domains. Focus on research-based practices for early childhood programs. Credit will not be awarded for both SED 808 and 718.

**SED 809. Diag Teaching Deaf & HH. (3 Credits)**

A. Prerequisites: certification in Special Education or department chair approval and SED 354, SED 804 or instructor approval. Differential diagnosis and educational programming in academic, sociological, and vocational areas with emphasis on case presentation and individual educational plans.

**SED 810. Sp Ed Statutes Regs & Case Law. (3 Credits)**

A. A study of the administrative responsibilities of special education leadership with emphasis on the understanding of the field of special education, related federal and state laws, administrative regulations, instructional arrangements, grant writing and budget.

**SED 811. IECE Assessment. (3 Credits)**

A. Assessing infants, toddlers, and preschoolers with developmental delays and risk factors. Emphasis on screening, eligibility determination, authentic and functional assessments, data collection and interpretation, and collaboration with families and professionals.

**SED 812. Intro Spec Edu Assessment. (3 Credits)**

Formerly SED 776. Principles of tests and measurements. Test administration, scoring, and interpretation applied to exceptional children. Credit will not be awarded for both SED 812 and 776.

**SED 813. Adv Spec Edu Assessment. (3 Credits)**

Formerly SED 803. Evaluation of educational, perceptual, conceptual, social, and psychological characteristics of exceptional individuals. Interpretation for educational and community interventions for exceptional students. Credit will not be awarded for both SED 813 and 803.

**SED 814. Spec Ed Consult & Supv Tech. (3 Credits)**

A. Consulting and supervisory services; recruitment, selection, and utilization of support services, evaluation of personnel in special education and programs; staff development; and mediation techniques.

**SED 815. Response to Intervention. (3 Credits)**

Provides framework for implementing RtI. Focus on components and role of school personnel in RtI Models in the context of legal mandates and ethical guidelines for data collection, interventions, assessments, progress monitoring, and eligibility.

**SED 816. Prac in Spec Educ Administrati. (6 Credits)**

A. Prerequisites: SED 810, 814, and EAD 801 or department chair approval. Supervised experiences in providing consultation services and performing all of the other functions of director of special education including procedures and policies, record keeping, utilization of support services, staff development, and due process.

**SED 817. Behavior Disorders. (3 Credits)**

Formerly SED 778. This course examines behavior disorders and emotional disturbances as educational, psychological, and sociological phenomenon. Definitions, characteristics, theoretical foundations, and programmatic approaches are discussed. Credit will not be awarded for both SED 817 and 778.

**SED 819. Mod/Sev Disabilities Intro. (3 Credits)**

No prerequisite. Introduction to teaching students with Moderate and Severe Disabilities (MSD). Educational needs, issues, legal mandates, family concerns, and best practices for student-focused inclusive school and community programs. Credit will not be awarded for both SED 819 and 700.

**SED 820. Multi-Tier Math/Reading Instr. (3 Credits)**

I. Introduction to foundations, universal core instruction, and progressively intensive math/reading instruction for P-12 students, including students with disabilities. Selection/use of Tier 1 and 2 interventions, features of assessment of math/reading difficulties, data collection and analysis.

**SED 821. MSD Tech/Research-Based Strat. (3 Credits)**

Implementing technology, assistive/adaptive devices, and research-based strategies to support learning of students with moderate and severe disabilities. Includes use of language strategies, symbolic and non-symbolic communication in natural environments and daily routines. Credit will not be awarded for both SED 821 and 730.

**SED 822. DataMgmtRspnsIntervention. (3 Credits)**

Prerequisites: SED 815 and 820. Focuses on research-based practices in tracking student progress. Addresses data collection and analysis in RtI and roles of school personnel to collect, analyze, and make decisions based on student data.

**SED 823. Mod/Sev Disab Methods. (3 Credits)**

Functional assessment and systematic instruction for student with MSD. Use of assessment data to develop IEPs and research-based instructional programs, including activity-based and community-based instruction. Methods and materials for implementing best practices across settings. Credit will not be awarded for both SED 823 and 735.

**SED 824. Early Special Education Topics. (3 Credits)**

Prerequisite: advisor/departmental approval. School related work, special workshops, special seminars. May be retaken up to 6 credit hours provided topics differ. Credit will not be awarded for both SED 824 and 707.

**SED 825. Lang Disorder Students Disabil. (3 Credits)**

Formerly SED 722. Prerequisite: SED 826 or dept. approval. Acquisition of normal language and speech in our multicultural society. Identification and educational management of language and speech disorders in children with disabilities. Credit will not be awarded for both SED 825 and 722.

**SED 826. Best Practices in Spec Edu. (3 Credits)**

Overview of special education including characteristics, definitions, legal mandates, programming requirements, and research based practices to support students with disabilities. Open to non-majors. Credit will not be awarded for both SED 826 and 775.

**SED 827. Early Ch Spec Ed Partnerships. (3 Credits)**

Review of needs of and methods for effective collaboration with families of children with disabilities, focusing on family-school interactions, impact of family variability on collaboration. Credit will not be awarded for both SED 827 and 711.

**SED 830. Survey of Ed of Deaf and HoH. (3 Credits)**

A. Discussion of historical, philosophical, educational, psychological, and social aspects of deaf education. An orientation to problems, issues, and research in the field.

**SED 832. Written Lang of Deaf & HH. (3 Credits)**

A. Prerequisite: certification in special education or department chair approval. Methods of developing written language from preschool through secondary levels; including traditional and current methods of teaching written English. Evaluation of written language competence of deaf and hard of hearing students.

**SED 837. Applied Behavior Analysis. (3 Credits)**

Formerly SED 790. Prerequisite: SED 826 or departmental approval. A study of classroom and behavior management, including applied behavior analysis as applied to classroom and instructional management. Development of skills in data collection, intervention procedures, graphing data, and evaluation of behavior change are the focus. Credit will not be awarded for both SED 837 and 790.

**SED 845. Spec Ed Transition/Collab. (3 Credits)**

Research-based practices in scheduling and management of Specially Designed Instruction; transdisciplinary services, and transition activities; collaboration with parents, paraprofessionals, and professionals; professional development skills, and records management to support the learning of students with disabilities. Credit will not be awarded for both SED 845 and 745.

**SED 850. Assess/Prog/Methods, D/HH. (3 Credits)**

II. Formerly SED 710. Open to DHH and Communication Disorders graduate students only. Standardized and informal assessments used to measure reading and content knowledge of students who are deaf and hard of hearing. Exploration of professional literature and specialized curricula, programmatic decisions, and high leverage practices for students who are DHH. Credit will not be awarded to students who have credit for SED 710.

**SED 851. Teaching Secondary LBD. (3 Credits)**

A. Focus on education of students with LBD in secondary settings, including academic instruction and learning strategies, social competence, schoolwide management, career education and transition, adolescent sexuality, drug and alcohol use, and juvenile delinquency.

**SED 856. Graduate Methods and Materials. (3 Credits)**

A. Prerequisites or Corequisites: SED 790 and 776 with a grade of C or higher. Curriculum for exceptional individuals; instructional principles and methodology; development, implementation, and evaluation of educational materials. Course will address teaching strategies using the Program of Studies to make appropriate adaptations and accommodations for diverse learners.

**SED 886. Seminar in Special Education. (3 Credits)**

A. Prerequisite: SED 805 or instructor approval. Critical study of research literature on education of exceptional individuals. Directed study based on student's area of emphasis.

**SED 890. Adv Behav Strateg & Interv. (3 Credits)**

A. Prerequisites: SED 341, SED 590/790, or instructor approval. Study of techniques of applied behavior analysis, functional behavioral assessment, alternative procedures, interventions for severe problem behaviors, and maintaining a safe learning environment for all students.

**SED 897. Practicum in Special Education. (3-6 Credits)**

A. Practicum for graduate students who seek certification in an area in special education.

**SED 898. Capstone Research Project. (1-3 Credits)**

(1-3). A. Prerequisites: EDL 810, EDL 811 and minimum of 24 hours in Ed. S. program. Completion of research project using action or traditional research design with topic related to area of specialization in Special Education.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Agriculture (Grades 5-12) (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- ECU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- ECU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

**Candidates Seeking Option 6 Alternative Route**

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at certification.alternative\_routes@EKU.EDU or visit the Alternative Certification Specialist in Bert Combs, Room 423

**Program Requirements**

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		

English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 752	Teach/Car/Tech Edu/midd/Sec Sc	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.

- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Art (P-12) (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.

- Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3

**Concentrations**

Students must select one of the following Concentrations: 9-27

Interdisciplinary Early Childhood Education
Deaf and Hard of Hearing Education
Elementary Education P-5 Teaching
Middle Grades 5-9 Teaching
Agriculture (Grades 5-12)
Art (P-12)
Biological Science (8-12)
Business and Marketing (5-12)
Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)
English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

**Exit Requirements**

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 740	Teaching Art in the Schools	3
EME 861	Art in Elem & Middle Grade P-8	3
Choose from six hours of content with advisor approval		
<b>Total Hours</b>		<b>12</b>

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878)
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

**Licensure**

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

**Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Biological Science (8-12) (M.A.T.)**

**General Information**

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

**Admission Requirements**

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

**Admission to the Program**

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including

undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)

- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at

certification.alternative\_routes@EKU.EDU or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0

GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 761	Teach Sci in Secondary School	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

### Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

## Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Business and Marketing (5-12) (M.A.T.)

### General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

### Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		

English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 773	Teach Bus & Mar in Midd & Sec	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878)
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.

- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

## Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Chemistry (8-12) (M.A.T.)

### General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

### Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

#### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR

1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.

- Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

*Note: Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.*

#### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3

EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3

**Concentrations**

Students must select one of the following Concentrations: 9-27

Interdisciplinary Early Childhood Education
Deaf and Hard of Hearing Education
Elementary Education P-5 Teaching
Middle Grades 5-9 Teaching
Agriculture (Grades 5-12)
Art (P-12)
Biological Science (8-12)
Business and Marketing (5-12)
Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)
English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

**Exit Requirements**

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 761	Teach Sci in Secondary School	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

**Licensure**

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

**Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Deaf and Hard of Hearing Education (M.A.T.)**

**General Information**

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

**Admission Requirements**

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

**Admission to the Program**

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including

undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)

- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

**Candidates Seeking Option 6 Alternative Route**

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at

certification.alternative\_routes@EKU.EDU or visit the Alternative Certification Specialist in Bert Combs, Room 423

**Program Requirements**

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0

GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ELE 820	Literacy Foundation P-5	3
ELE 822	Mathematical Foundations P-5	3
SED 738	Langug of Deaf & Hrd of Hring	3
SED 780	Audiology for Teachers of DHH	3
SED 781	Speech F/T Deaf & HH	3
SED 825	Lang Disorder Students Disabil	3
SED 830	Survey of Ed of Deaf and HoH	3
SED 845	Spec Ed Transition/Collab	3
SED 850	Assess/Prog/Methods, D/HH	3
<b>Total Hours</b>		<b>27</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878)
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

### Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut

scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

## Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Earth Science (8-12) (M.A.T.)

### General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

### Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470

- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		

Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)
English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0

**Total Hours** **34-52**

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 761	Teach Sci in Secondary School	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

- Approval of the Capstone Research project by the candidate's advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - ECU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - ECU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Elementary Education P-5 Teaching (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3

EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3

<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		

<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
ELE 820	Literacy Foundation P-5	3

ELE 821	Literacy Instr. & Assess P-5	3
ELE 822	Mathematical Foundations P-5	3
ELE 823	Math Content, Ped, & Assessmen	3
ELE 824	Science Cont, Ped & Asses P-5	3
ELE 825	Soc Stud Cont, Ped, & Assessme	3
ELE 826	Integrating Arts, Hum, & Pract	2
ELE 827	Integrated Thematic Teaching	2

**Total Hours** 22

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

**Licensure**

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

**Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Engineering & Technology Education (5-12) (M.A.T.)**

**General Information**

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for

the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.

- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830	Prof Stud II: Lrns/Tchrs & Res	6
& ETL 805	and Research Metho for Educ Profes	
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 752	Teach/Car/Tech Edu/midd/Sec Sc	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

### Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut

scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

## Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in English (8-12) (M.A.T.)

### General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

### Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470

- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		

Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)
English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0

**Total Hours** **34-52**

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 743	Teach/Lang Arts in the Sec Sch	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKV College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKV College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Family and Consumer Sciences (5-12) (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3

EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3

**Concentrations**

Students must select one of the following Concentrations: 9-27

- Interdisciplinary Early Childhood Education
- Deaf and Hard of Hearing Education
- Elementary Education P-5 Teaching
- Middle Grades 5-9 Teaching
- Agriculture (Grades 5-12)
- Art (P-12)
- Biological Science (8-12)
- Business and Marketing (5-12)
- Chemistry (8-12)
- Earth Science (8-12)
- Engineering & Technology Education (5-12)
- English (8-12)
- Family and Consumer Sciences (5-12)
- French (P-12)
- Health Education (P-12)
- Mathematics (8-12)
- Music (P-12)
- Physical Education (P-12)
- Physical Education & Health Dual Certification (P-12)
- Physics (8-12)
- Social Science (8-12)
- Spanish (P-12)
- Theatre (P-12)

**Exit Requirements**

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0

**Total Hours** 34-52

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 753	Family & Consumer Sci Edu Cur	4

Choose from six hours of content with advisor approval 6

**Total Hours** 10

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878)
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

**Licensure**

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

**Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in French (P-12) (M.A.T.)**

**General Information**

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

**Admission Requirements**

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

## Admission to the Program

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - ECU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - ECU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

## Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second

renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.

- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at certification.alternative\_routes@EKU.EDU or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0

GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 743	Teach/Lang Arts in the Sec Sch	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

## Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Health Education (P-12) (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

## Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - ECU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - ECU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at certification.alternative\_routes@EKU.EDU or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3

### Concentrations

Students must select one of the following Concentrations: 9-27

Interdisciplinary Early Childhood Education
Deaf and Hard of Hearing Education
Elementary Education P-5 Teaching
Middle Grades 5-9 Teaching
Agriculture (Grades 5-12)
Art (P-12)
Biological Science (8-12)
Business and Marketing (5-12)
Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)

English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0

**Total Hours 34-52**

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 766	Teach Hlth/Phy Educ in Schools	3
EME 786	Teaching of Health in P-8	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878 )

- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Interdisciplinary Early Childhood Education (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions

- Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
- Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3

EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3

<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		

<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
ELE 719	Teaching in the Kindergarten	3
SED 802	Adv Early Childhd Intervn Prog	3

SED 808	Spec Ed Early Childhood Survey	3
SED 811	IECE Assessment	3
SED 825	Lang Disorder Students Disabil	3
SED 837	Applied Behavior Analysis	3
OTS 715	Early Child Sensorimotor Devel	3
<b>Total Hours</b>		<b>21</b>

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

**Licensure**

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

**Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Mathematics (8-12) (M.A.T.)**

**General Information**

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for

the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.

- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830	Prof Stud II: Lrns/Tchrs & Res	6
& ETL 805	and Research Metho for Educ Profes	
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 750	Teach of Mat in the Sec Sch	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

### Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut

scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

## Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Middle Grades 5-9 Teaching (M.A.T.)

### General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

### Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470

- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		

Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)
English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0

**Total Hours** **34-52**

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EGC 835	Content Meth and Curr for EMG	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

## Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKV College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKV College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Music (P-12) (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3

EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3	EME 878	Teaching Music in Grades P-8	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6	Choose from six hours of content with advisor approval		6
EMS 810	Emerging Instructional Technol	3	<b>Total Hours</b>		
EMS 874	Disciplinary Literacy	3	<b>11</b>		
SED 800	Exceptl Learners Gen Ed Class	3			

**Concentrations**

Students must select one of the following Concentrations: 9-27

- Interdisciplinary Early Childhood Education
- Deaf and Hard of Hearing Education
- Elementary Education P-5 Teaching
- Middle Grades 5-9 Teaching
- Agriculture (Grades 5-12)
- Art (P-12)
- Biological Science (8-12)
- Business and Marketing (5-12)
- Chemistry (8-12)
- Earth Science (8-12)
- Engineering & Technology Education (5-12)
- English (8-12)
- Family and Consumer Sciences (5-12)
- French (P-12)
- Health Education (P-12)
- Mathematics (8-12)
- Music (P-12)
- Physical Education (P-12)
- Physical Education & Health Dual Certification (P-12)
- Physics (8-12)
- Social Science (8-12)
- Spanish (P-12)
- Theatre (P-12)

**Exit Requirements**

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0

**Total Hours** 34-52

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
MUE/EMS 702	Music Tech Teaching Methods	2

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878)
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

**Licensure**

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

**Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Physical Education & Health Dual Certification (P-12) (M.A.T.)**

**General Information**

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for

the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.

- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at certification.alternative\_routes@EKU.EDU or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830	Prof Stud II: Lrns/Tchrs & Res	6
& ETL 805	and Research Metho for Educ Profes	
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 766	Teach Hlth/Phy Educ in Schools	3
EME 786	Teaching of Health in P-8	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>12</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878)
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

### Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut

scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

## Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Physical Education (P-12) (M.A.T.)

### General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

### Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

#### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470

- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

Note: Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		

Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)
English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0

**Total Hours 34-52**

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 766	Teach Hlth/Phy Educ in Schools	3
EME 786	Teaching of Health in P-8	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.

- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Physics (8-12) (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.

- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - ECU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - ECU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1

CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3

**Concentrations**

Students must select one of the following Concentrations: 9-27

- Interdisciplinary Early Childhood Education
- Deaf and Hard of Hearing Education
- Elementary Education P-5 Teaching
- Middle Grades 5-9 Teaching
- Agriculture (Grades 5-12)
- Art (P-12)
- Biological Science (8-12)
- Business and Marketing (5-12)
- Chemistry (8-12)
- Earth Science (8-12)
- Engineering & Technology Education (5-12)
- English (8-12)
- Family and Consumer Sciences (5-12)
- French (P-12)
- Health Education (P-12)
- Mathematics (8-12)
- Music (P-12)
- Physical Education (P-12)
- Physical Education & Health Dual Certification (P-12)
- Physics (8-12)
- Social Science (8-12)
- Spanish (P-12)
- Theatre (P-12)

**Exit Requirements**

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 761	Teach Sci in Secondary School	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

**Licensure**

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

**Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Social Science (8-12) (M.A.T.)**

**General Information**

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - ECU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - ECU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for

the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.

- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at certification.alternative\_routes@EKU.EDU or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830	Prof Stud II: Lrns/Tchrs & Res	6
& ETL 805	and Research Metho for Educ Profes	
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		
Chemistry (8-12)		
Earth Science (8-12)		
Engineering & Technology Education (5-12)		
English (8-12)		
Family and Consumer Sciences (5-12)		
French (P-12)		
Health Education (P-12)		
Mathematics (8-12)		
Music (P-12)		
Physical Education (P-12)		
Physical Education & Health Dual Certification (P-12)		
Physics (8-12)		
Social Science (8-12)		
Spanish (P-12)		
Theatre (P-12)		

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0
<b>Total Hours</b>		<b>34-52</b>

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 749	Teach/Soc Stud in the Sec Sch	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

### Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

### Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut

scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

## Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Spanish (P-12) (M.A.T.)

### General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master's degree.

### Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor's or master's degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- EKU College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
- EKU College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470

- Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3
EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-27
Interdisciplinary Early Childhood Education		
Deaf and Hard of Hearing Education		
Elementary Education P-5 Teaching		
Middle Grades 5-9 Teaching		
Agriculture (Grades 5-12)		
Art (P-12)		
Biological Science (8-12)		
Business and Marketing (5-12)		

Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)
English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

### Exit Requirements

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0

**Total Hours** **34-52**

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 743	Teach/Lang Arts in the Sec Sch	3
Choose from six hours of content with advisor approval		6
<b>Total Hours</b>		<b>9</b>

## Exit Requirements

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.

- Approval of the Capstone Research project by the candidate’s advisor (GRD 878 )
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

## Licensure

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

# Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Theatre (P-12) (M.A.T.)

## General Information

The Master of Arts in Teaching program is designed to allow degree candidates who have already completed an appropriate undergraduate major (determined by transcript review) to complete certification requirements while completing a master’s degree.

## Admission Requirements

Candidates seeking admission to the program must **meet all admission requirements for the Graduate School and admission to the program.**

### Admission to the Program

- A bachelor’s or master’s degree with a cumulative grade point average of 2.75 on a 4.0 scale **or** a grade point average of 3.0 on a 4.0 scale on the last thirty (30) hours of credit completed, including undergraduate and graduate coursework. (EPSB regulation 16 KAR 5:020)
- Must successfully complete the PRAXIS II content exam in the desired certification area with the exception of DHH, IECE, elementary, and music concentrations. Prerequisite courses for candidates seeking MAT with DHH certification: ASL 101 American Sign Language I, ASL 102 American Sign Language II.
- A professional resume
- An autobiography documenting relevant life/work/educational experience
- Three letters of reference
- Demonstrate communication, creativity, critical thinking, and collaboration in two writing assignments given by the School.
- An interview with the MAT Admission Committee

- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions
  - Candidates must review and sign the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
  - Candidates must review and sign the character and fitness questionnaire contained in Section III of the TC-1 (CA-1 Spring 2015) incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
  - EKV College of Education and Applied Human Sciences requires a state criminal history background check approved by the College of Education and Applied Human Sciences as a condition of admission. Under certain circumstances, a national criminal history background check may be required as a condition of admission.
  - EKV College of Education and Applied Human Sciences requires a Central Registry check per 922 KAR 1:470
  - Candidates must demonstrate understanding of professional dispositions expected of professional educators.

**Note:** Based upon applicant disclosure, an interview by the Professional Education Admission Committee may be required.

### Candidates Seeking Option 6 Alternative Route

- Candidates with clear admission to a traditional route MAT program may pursue an Option 6 route (Temporary Provisional Certification) with an offer of employment from a school district. Candidates seeking employment will be provided an Option 6 eligibility letter to support their application for employment. The school district will initiate a CA-TP application as their intent to hire the candidate. A mentoring plan will be deployed that outlines responsibilities for direct observations from a university mentor with participation from a district assigned mentor.
- To seek and maintain a temporary provisional certification, candidates must be in good academic standing at the university and have concurrent enrollment each semester in the MAT program for the duration of the Option 6 placement. All program requirements and assessments must be completed during the initial and first renewal of the licensure prior to enrollment in practicum and the capstone course which will be completed during the KTIP year, the second renewal. Degree completion is recommended upon successful completion of KTIP and all program requirements.
- To begin the Option 6 route professional education admission process or to request an option 6 eligibility letter, please email the Profession Education Service at [certification.alternative\\_routes@EKU.EDU](mailto:certification.alternative_routes@EKU.EDU) or visit the Alternative Certification Specialist in Bert Combs, Room 423

## Program Requirements

CIP Code: 13.1206

Code	Title	Hours
<b>Professional Education Core</b>		
CED 810	Clinical VII: Learn, Teach, Sc	0.5
CED 820	Clinical VIII: Design Instruct	0.5
CED 830	Clinical IX: Diagnosis & Presc	1
CED 840	Clinical X: Practicing Teachin	1
CED 897	Clinical XI: Grad Practicum	3

EGC 820	Prof Stud I: Tchrs, Sch, & Soc	3
EGC 830 & ETL 805	Prof Stud II: Lrns/Tchrs & Res and Research Metho for Educ Profes	6
EMS 810	Emerging Instructional Technol	3
EMS 874	Disciplinary Literacy	3
SED 800	Exceptl Learners Gen Ed Class	3

**Concentrations**

Students must select one of the following Concentrations: 9-27

Interdisciplinary Early Childhood Education
Deaf and Hard of Hearing Education
Elementary Education P-5 Teaching
Middle Grades 5-9 Teaching
Agriculture (Grades 5-12)
Art (P-12)
Biological Science (8-12)
Business and Marketing (5-12)
Chemistry (8-12)
Earth Science (8-12)
Engineering & Technology Education (5-12)
English (8-12)
Family and Consumer Sciences (5-12)
French (P-12)
Health Education (P-12)
Mathematics (8-12)
Music (P-12)
Physical Education (P-12)
Physical Education & Health Dual Certification (P-12)
Physics (8-12)
Social Science (8-12)
Spanish (P-12)
Theatre (P-12)

**Exit Requirements**

ETL 806	Teacher Leader Capstone (repeatable for up to three hours)	1
GRD 878	(see below)	0
GRD 878K	MAT Elementary Portfolio Review	0
GRD 878L	MAT Middle Grade Portfolio Review	0
GRD 878N	MAT Secnd Portfolio Review	0
GRD 878O	Deaf and Hard of Hearing Portfolio Review	0
GRD 878P	MAT IECE Portfolio Review	0

**Total Hours** **34-52**

The selected concentration subject is that in which the candidate will then request certification by the Education Professional Standards Board.

- Candidates may obtain Rank 1 upon completion of the MAT DHH certification with the addition of the following coursework: ELE 821 Literacy Instr. & Assess P-5, SED 808 Spec Ed Early Childhood Survey, and SED 837 Applied Behavior Analysis

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
ESE 743	Teach/Lang Arts in the Sec Sch	3

Choose from six hours of content with advisor approval 6

**Total Hours** **9**

**Exit Requirements**

The following are the exit requirements for Master of Arts in Teaching:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C, and no grade lower than a B in CED courses.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components.
- Students must register for and take the PRAXIS exam which correlates to their degree program, per College of Education and Applied Human Sciences requirements.
- Refer to Degree Works for exam details. The PRAXIS exam must be taken prior to student teaching.
- Approval of the Capstone Research project by the candidate's advisor (GRD 878)
- Oral presentation of Action Research in ETL 806 Teacher Leader Capstone.
- Initial Certification Concentration: Successful completion of the student teaching semester for the initial certification concentration.

Option 6 Route: Submission of completed, verified Mentoring Plan.

**Licensure**

Candidates seeking licensure and/or rank change in Kentucky must complete the appropriate PRAXIS content exam(s) and Praxis II Principles of Learning and Teaching exam.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and Assessment at (502) 564-5778.

**Deaf and Hard of Hearing Certification****Certification Preparation Programs**

These are programs of study which do not lead to a degree or to an ECU awarded recognition but instead prepare the student, upon recommendation from ECU, for professional certification by the Commonwealth of Kentucky Education Professional Standards Board.

**General Information**

Candidates pursuing special education certification in Learning and Behavior Disorders, Interdisciplinary Early Childhood Education, and Deaf and Hard of Hearing must hold teaching certification. The certification options are listed below. Additional hours may apply toward a sixth year program (Rank I). It is very important that candidates seek early advisement from the department.

The prerequisites are an undergraduate degree and a Kentucky Teaching Certificate in IECE, P-5, P-12, 5-9, 5-12, or Secondary for classroom teachers.

## Admission Requirements

To be eligible for admission into any special education nondegree graduate program (Rank II, I), a candidate must have a minimum undergraduate GPA of 2.75 overall or 3.0 in the last 30 hours of course work.

## Program Requirements

Also, candidates must have completed the following or equivalent prerequisite course work.

Code	Title	Hours
<b>Prerequisite Courses</b>		
ELE 445	Foundations of Reading/ Language Arts	3
or EMG 445	Foundation of Reading/Language Arts	
Choose from one of the following:		3
ELE 446		
EMG 447	Disciplinary Literacy in the Middle Grades	
EMG 806	Read Instruction Middle School	
ELE 820	Literacy Foundation P-5	3
MAE 201	Mathematical Concepts for P-9 I	3
MAE 202	Mathematical Concepts for P-9 II	3
MAE 302	Mathematical Concepts for P-9 III	3
or ELE 822	Mathematical Foundations P-5	
<b>Required Courses</b>		
ASL 101	American Sign Language I	3
SED 710		3
SED 738	Langug of Deaf & Hrd of Hring	3
SED 745		3
SED 780	Audiology for Teachers of DHH	3
SED 781	Speech F/T Deaf & HH	3
SED 808	Spec Ed Early Childhood Survey	3
SED 825	Lang Disorder Students Disabil	3
SED 826	Best Practices in Spec Edu	3
SED 830	Survey of Ed of Deaf and HoH	3
SED 897	Practicum in Special Education	3
<b>Total Hours</b>		<b>51</b>

Note: Completion of the above program will not suffice for completion of a Rank program. For DHH Certification, the PRAXIS test in the area of specialty must be passed.

## Elementary Education, Master of Arts (M.A.Ed.)

### General Information

The MAED in Elementary Education is available to candidates who wish to

1. improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, instructional facilitators, department chairs and/or team leaders; or

2. deepen their understanding of teaching and learning development, practices, and trends.

Candidates who complete Option A will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

All candidates must meet the admissions requirements of the Graduate School. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

In addition, the following are required for admission to the program:

- MAED Option A: Advanced study requires a valid teaching license in initial elementary education. With this option, candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.
- MAED Option B: Candidates entering this non-teaching option must hold a bachelor's degree in education or related human services discipline from an accredited institution. Prerequisite coursework (completed or equivalent): EDF 203 Educational Foundations, EDF 219 Human Development and Learning, and EDF 413 Assessment in Education.

## Program Requirements

CIP Code: 13.1202

Code	Title	Hours
<b>Required Core for Both Options</b>		
EDF 804	Teaching and Leading with Tech	2
ELE 871	Literacy Programs P-5	3
EMS 855	Gifted and Talented Youth	3
Choose from one of the following:		3
EME 843	Mathematics Intervention Strat (Option A)	
EME 866	Investigations in Mathematics (Option B)	
EME 870	Trends in Science Education	3
or EMS 846	Social Studies Investigation	
<b>Options</b>		
Choose from one of the following Options:		16-17
<i>Option A: Advanced Study</i>		
ETL 800	Leadership Skills for Teachers	
ETL 801	Leading Achievement Change	
ETL 803	Curriculum for Teacher Leaders	
ETL 805	Research Metho for Educ Profes	
ETL 806	Teacher Leader Capstone	
Elementary Education Support Course: Choose from one three hour advisor approved elective <sup>1</sup>		
<i>Option B: Non-Teaching Option</i>		
EDF 855	Found of Multicultural Educati	
ELE 826	Integrating Arts, Hum, & Pract	
EMS 775	Methods for Multilingual Learners	
EMS 842	Discipline & Classroom Mgt	
SED 800	Exceptl Learners Gen Ed Class	
Support Course:		
EPY 869	Research & Program Evaluation	
<b>Exit Requirements</b>		

GRD 878A	MAED Elem Ed Oral Comp Exam	0
<b>Total Hours</b>		<b>30-31</b>

1  
 Course selected to strengthen candidate's knowledge of subjects taught. Candidates are encouraged to discuss endorsement options with their advisor as well.

## Exit Requirements

The following are the exit requirements for Elementary Education:

- **Program GPA:** Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- **Option A:** An action research project which culminates in a technology enhanced presentation is required in the Capstone Seminar, ETL 806 Teacher Leader Capstone. ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.
- **Option B:** A comprehensive examination is required for this option.
- GRD 878A MAED Elem Ed Oral Comp Exam

## English as a Second Language (Grades P-12), Endorsement Preparation Program

### Endorsement Preparation Programs

These are programs of study which do not lead to a degree or to an EKU awarded recognition but instead prepare the candidate, upon recommendation from EKU, for professional endorsement by the Commonwealth of Kentucky Education Professional Standards Board. In some cases, the endorsement may be earned as part of a degree program.

For information on the following endorsement programs, go to the Teaching, Learning, & Educational Leadership website at [www.curriculum.eku.edu](http://www.curriculum.eku.edu) (<http://www.curriculum.eku.edu>).

### Program Requirements

Code	Title	Hours
EME 751	Linguistics in the Curriculum	3
EMS 775	Methods for Multilingual Learners	3
EMS 776	Assessment Methods for ELLs	3
EMS 777	Culturally and Linguistically Responsive Teaching	3
<b>Total Hours</b>		<b>12</b>

## Gifted Education (Grades P-12), Endorsement Preparation Program

### Endorsement Preparation Programs

These are programs of study which do not lead to a degree or to an EKU awarded recognition but instead prepare the candidate, upon recommendation from EKU, for professional endorsement by the Commonwealth of Kentucky Education Professional Standards Board.

In some cases, the endorsement may be earned as part of a degree program.

For information on the following endorsement programs, go to the Teaching, Learning, & Educational Leadership website at [www.curriculum.eku.edu](http://www.curriculum.eku.edu) (<http://www.curriculum.eku.edu>).

## Program Requirements

Code	Title	Hours
EMS 855	Gifted and Talented Youth	3
EMS 856	Curr in Gifted/Talented Educat	3
EMS 857	Model Prog-Gifted/Talented Edu	3
EMS 858	Practicum-Gifted & Talented Ed	3
<b>Total Hours</b>		<b>12</b>

## Gifted Education, Master of Arts (M.A.Ed.)

### General Information

This program offers individuals certified to teach at the elementary, middle grade, and secondary levels, or variations thereof, an additional certification option in Gifted Education (P-12) while improving their professional skills, extending their knowledge of the subjects they teach, and increasing their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as gifted and talented coordinators. Completion of this program may lead to a Gifted/Talented P-12 endorsement. Candidates must pass appropriate PRAXIS II exam to earn the Gifted Endorsement.

### Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial elementary, middle grades, or secondary/P-12/5-12 teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

### Program Requirements

CIP Code: 13.1004

Code	Title	Hours
<b>Professional Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 805	Research Metho for Educ Profes	3
EMS 850	Curr. for Leaders in Education	3
or ETL 803	Curriculum for Teacher Leaders	3
EDF 804	Teaching and Leading with Tech	2
<b>Program Specific Coursework</b>		
EMS 855	Gifted and Talented Youth	3
EMS 856	Curr in Gifted/Talented Educat	3
EMS 857	Model Prog-Gifted/Talented Edu	3
EMS 858	Practicum-Gifted & Talented Ed	3
ELE 871	Literacy Programs P-5	3
or EMG 806	Read Instruction Middle School	3
Course selected, with advisor approval, to include STEAM content and/or pedagogy		3

**Exit Requirements**

ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878E	MAED Gifted Ed Oral Comp Exam	0
<b>Total Hours</b>		<b>30</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

Candidates may apply for the Gifted Education (P-12) certification (endorsement) after completing EMS 855 Gifted and Talented Youth, EMS 856 Curr in Gifted/Talented Educat, EMS 857 Model Prog-Gifted/Talented Edu, and EMS 858 Practicum-Gifted & Talented Ed.

Candidates must pass the appropriate Praxis II Exam for this area of certification.

**Exit Requirements**

The following are the exit requirements for Gifted Education:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in the Capstone Seminar, ETL 806 Teacher Leader Capstone; successful completion of GRD 878E MAED Gifted Ed Oral Comp Exam.

**Interdisciplinary Early Childhood Education Certification (IECE)**

**Certification Preparation Programs**

These are programs of study which do not lead to a degree or to an EKU awarded recognition but instead prepare the student, upon recommendation from EKU, for professional certification by the Commonwealth of Kentucky Education Professional Standards Board.

**General Information**

Candidates pursuing special education certification in Learning and Behavior Disorders, Interdisciplinary Early Childhood Education, and Deaf and Hard of Hearing must hold teaching certification. The certification options are listed below. Additional hours may apply toward a sixth year program (Rank I). It is very important that candidates seek early advisement from the department.

The prerequisites are an undergraduate degree in early childhood or related field and a Kentucky Teaching Certificate or meet all requirements for admission to professional education.

Candidates entering the Graduate Certification Program in IECE without a prior Kentucky teaching certification must contact the College of Education and Applied Human Sciences Office of Licensure and Certification at 859-622-1829 for additional requirements.

**Admission Requirements**

To be eligible for admission into any special education nondegree graduate program (Rank II, I), a candidate must have a minimum

undergraduate GPA of 2.75 overall or 3.0 in the last 30 hours of course work.

**Program Requirements**

Code	Title	Hours
<b>Core Courses</b>		
CDF 741	Infant Toddler Dev&Group Care	3
SED 800	Exceptl Learners Gen Ed Class	3
SED 802	Adv Early Childhd Intervn Prog	3
SED 808	Spec Ed Early Childhood Survey	3
SED 811	IECE Assessment	3
SED 825	Lang Disorder Students Disabil	3
SED 837	Applied Behavior Analysis	3
SED 897	Practicum in Special Education	3
<b>Supporting Course Requirements</b>		
OTS 715	Early Child Sensorimotor Devel	3
SED 827	Early Ch Spec Ed Partnerships	3
<b>Course Requirements for Admission to Professional Education</b>		
TBD hours: Based upon individual transcript analysis.		
<b>Total Hours</b>		<b>30</b>

Note: Completion of the above program will not suffice for completion of a Rank program. For IECE Certification, the PRAXIS test in the area of specialty must be passed.

**Learning and Behavior Disorders Certification**

**Certification Preparation Programs**

These are programs of study which do not lead to a degree or to an EKU awarded recognition but instead prepare the student, upon recommendation from EKU, for professional certification by the Commonwealth of Kentucky Education Professional Standards Board.

**General Information**

Candidates pursuing special education certification in Learning and Behavior Disorders, Interdisciplinary Early Childhood Education, and Deaf and Hard of Hearing must hold teaching certification. The certification options are listed below. Additional hours may apply toward a sixth year program (Rank I). It is very important that candidates seek early advisement from the department.

The prerequisites are an undergraduate degree and Kentucky Teaching Certificate in IECE, P-5, P-12, 5-9, 5-12, for Secondary classroom teachers.

**Admission Requirements**

To be eligible for admission into any special education nondegree graduate program (Rank II, I), a candidate must have a minimum undergraduate GPA of 2.75 overall or 3.0 in the last 30 hours of course work.

**Program Requirements**

Candidates must also have completed the following or equivalent prerequisite course work:

Code	Title	Hours
<b>Prerequisite Courses</b>		
Choose from one of the following:		3
ELE 445	Foundations of Reading/ Language Arts	
ELE 302	Language Arts Foundations Grades P-5	
EMG 445	Foundation of Reading/Language Arts	
ELE 446		3
or ELE 820	Literacy Foundation P-5	
Choose from one of the following:		3
EMG 447	Disciplinary Literacy in the Middle Grades	
EMG 806	Read Instruction Middle School	
EMS 874	Disciplinary Literacy	
MAE 201	Mathematical Concepts for P-9 I	3
MAE 202	Mathematical Concepts for P-9 II	3
MAE 302	Mathematical Concepts for P-9 III	3
or ELE 822	Mathematical Foundations P-5	
<b>Required Courses</b>		
SED 774	Field Exp with Excep Learners <sup>1</sup>	3
SED 812	Intro Spec Edu Assesment	3
SED 817	Behavior Disorders	3
SED 825	Lang Disorder Students Disabil	3
SED 826	Best Practices in Spec Edu	3
SED 837	Applied Behavior Analysis	3
SED 845	Spec Ed Transition/Collab	3
SED 356	Methods and Materials for LBD	3
or SED 856	Graduate Methods and Materials	
SED 897	Practicum in Special Education	3-6
<b>Total Hours</b>		<b>45-48</b>

1

SED 774 Field Exp with Excep Learners can be waived with one year of successful teaching of students with LBD.

Note: Completion of the above program will not suffice for completion of a Rank program. For LBD Certification, the PRAXIS test in the area of a specialty must be passed.

## Literacy P-12, Master of Arts in Education (M.A.Ed.)

### General Information

This program offers individuals certified to teach at the elementary, middle grade, and secondary levels, or variations thereof, an additional certification option in Literacy Endorsement (P-12), while improving their professional skills, extending their knowledge of the subjects they teach, and increasing their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as literacy specialists, instructional leaders, teacher mentors, literacy coaches, and/or instructional facilitators. Candidates must pass appropriate PRAXIS II exam to earn the Literacy Endorsement.

Candidates will be eligible to apply for the Literacy (P-12) endorsement upon completion of this program.

### Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial teaching certification program in elementary, middle, or secondary/P-12/5-12 education. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

### Program Requirements

CIP Code: 13.0301

Code	Title	Hours
<b>Professional Education Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 805	Research Metho for Educ Profes	3
EDF 804	Teaching and Leading with Tech	2
<b>Supporting Course Requirements</b>		
ELE 871	Literacy Programs P-5	3
EMG 806	Read Instruction Middle School	3
<b>Program Specific Coursework</b>		
Choose from one of the following:		3
EMG 807	Middle Grade Education: _____	
ENG 805	Writing Prjct Summer Institute	
EME 852	Teaching Grammar and Punct.	
EMS 873	Trends & Issues in ELA	3
EMS 875	Literacy Assess and Instruct	3
EMS 876	Lit., Lead. & Advocate	3
EME 877	Practicum for Read Specialists	3
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878G	MAED R/W Oral Comp Exam	0
<b>Total Hours</b>		<b>30</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

Candidates may apply for the Literacy Specialist (P-12) certification (endorsement) after completing EMS 873 Trends & Issues in ELA; EMS 875 Literacy Assess and Instruct; EMS 876 Lit., Lead. & Advocate; EME 877 Practicum for Read Specialists; and either ELE 871 Literacy Programs P-5 or EMG 806 Read Instruction Middle School.

Candidates must pass the appropriate PRAXIS II Exam for this area of certification.

### Exit Requirements

The following are the exit requirements for the Literacy P-12 degree:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone; successful completion of GRD 878G MAED R/W Oral Comp Exam is also required.

# Literacy Specialist (Grades P-12), Endorsement Preparation Program

## Endorsement Preparation Programs

These are programs of study which do not lead to a degree or to an EKU awarded recognition but instead prepare the candidate, upon recommendation from EKU, for professional endorsement by the Commonwealth of Kentucky Education Professional Standards Board. In some cases, the endorsement may be earned as part of a degree program.

For information on the following endorsement programs, go to the Teaching, Learning, & Educational Leadership website at [www.curriculum.eku.edu](http://www.curriculum.eku.edu) (<http://www.curriculum.eku.edu>).

## Program Requirements

Code	Title	Hours
ELE 871	Literacy Programs P-5	3
or EMG 806	Read Instruction Middle School	
EMS 873	Trends & Issues in ELA	3
EMS 875	Literacy Assess and Instruct	3
EMS 876	Lit., Lead. & Advocate	3
EME 877	Practicum for Read Specialists	3
<b>Total Hours</b>		<b>15</b>

# Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Certification Area Specialization (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in middle schools improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and/or team leaders.

## Teacher Leader Endorsement

Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial middle grades teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.1203

Code	Title	Hours
<b>Professional Education Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
EDF 804	Teaching and Leading with Tech	2
<b>Middle Grades Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language Endorsement/Certification Area Specialization (Grades P-12)		
Gifted Education Endorsement/Certification Area Specialization (Grades P-12)		
Instructional Computer Technology Endorsement/Certification Area Specialization (Grades P-12)		
Literacy Specialist Endorsement/Certification Area Specialization (Grades P-12)		
Dual Credit Content Preparation		
Dual Credit Instructional Computer Technology Teaching Preparation		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878C	MAED Middle Grd Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Subject matter or education courses selected in consultation with advisor to strengthen candidate's knowledge in area(s) of certification.		12
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

The following are the exit requirements for Middle Grade Education:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone<sup>1</sup>.
- GRD 878C MAED Middle Grd Oral Comp Exam.

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

# Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Dual Credit Content Preparation (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in middle schools improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and/or team leaders.

## Teacher Leader Endorsement

Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial middle grades teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.1203

Code	Title	Hours
<b>Professional Education Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
EDF 804	Teaching and Leading with Tech	2
<b>Middle Grades Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language Endorsement/Certification Area Specialization (Grades P-12)		
Gifted Education Endorsement/Certification Area Specialization (Grades P-12)		
Instructional Computer Technology Endorsement/Certification Area Specialization (Grades P-12)		

Literacy Specialist Endorsement/Certification Area Specialization (Grades P-12)

Dual Credit Content Preparation

Dual Credit Instructional Computer Technology Teaching Preparation

Exit Requirements		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878C	MAED Middle Grd Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 18 graduate hours in consultation with education advisor and content specialist after transcript evaluation of prior coursework		18
<b>Total Hours</b>		<b>18</b>

## Exit Requirements

The following are the exit requirements for Middle Grade Education:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone<sup>1</sup>.
- GRD 878C MAED Middle Grd Oral Comp Exam.

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

# Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Dual Credit Instructional Computer Technology Teaching Preparation (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in middle schools improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher

mentors, literacy or math coaches, instructional facilitators, department chairs and/or team leaders.

## Teacher Leader Endorsement

Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial middle grades teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.1203

Code	Title	Hours
<b>Professional Education Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
EDF 804	Teaching and Leading with Tech	2
<b>Middle Grades Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language Endorsement/Certification Area Specialization (Grades P-12)		
Gifted Education Endorsement/Certification Area Specialization (Grades P-12)		
Instructional Computer Technology Endorsement/Certification Area Specialization (Grades P-12)		
Literacy Specialist Endorsement/Certification Area Specialization (Grades P-12)		
Dual Credit Content Preparation		
Dual Credit Instructional Computer Technology Teaching Preparation		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878C	MAED Middle Grd Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

<sup>1</sup>

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3

EDC 810	P12 ED/Tech: Critical Issues	3
EDC 811	P12 Ed/Tech: multimedia Design	3
EDC 812	P12 ED/Tech: Online Learning	3
EDC 813	P12 ED/Tech: Capstone	3
CIS 850		3
INF 710		3
or LIB 801	Educational Technologies	
<b>Total Hours</b>		<b>24</b>

## Exit Requirements

The following are the exit requirements for Middle Grade Education:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone<sup>1</sup>.
- GRD 878C MAED Middle Grd Oral Comp Exam.

<sup>1</sup>

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in English as a Second Language Endorsement (Grades P#12) (M.A.Ed.)

### General Information

The curriculum is designed to help teachers certified to teach in middle schools improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and/or team leaders.

### Teacher Leader Endorsement

Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial middle grades teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.1203

Code	Title	Hours
<b>Professional Education Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
EDF 804	Teaching and Leading with Tech	2
<b>Middle Grades Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language Endorsement/Certification Area Specialization (Grades P-12)		
Gifted Education Endorsement/Certification Area Specialization (Grades P-12)		
Instructional Computer Technology Endorsement/Certification Area Specialization (Grades P-12)		
Literacy Specialist Endorsement/Certification Area Specialization (Grades P-12)		
Dual Credit Content Preparation		
Dual Credit Instructional Computer Technology Teaching Preparation		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878C	MAED Middle Grd Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EME 751	Linguistics in the Curriculum	3
EMS 775	Methods for Multilingual Learners	3
EMS 776	Assessment Methods for ELLs	3
EMS 777	Culturally and Linguistically Responsive Teaching	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

The following are the exit requirements for Middle Grade Education:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone <sup>1</sup>.
- GRD 878C MAED Middle Grd Oral Comp Exam.

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

# Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Gifted Education Endorsement (Grades P#12) (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in middle schools improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and/or team leaders.

## Teacher Leader Endorsement

Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial middle grades teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.1203

Code	Title	Hours
<b>Professional Education Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
EDF 804	Teaching and Leading with Tech	2
<b>Middle Grades Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language Endorsement/Certification Area Specialization (Grades P-12)		
Gifted Education Endorsement/Certification Area Specialization (Grades P-12)		

# Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Instructional Computer Technology Endorsement (Grades P#12) (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in middle schools improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and/or team leaders.

## Teacher Leader Endorsement

Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial middle grades teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.1203

Code	Title	Hours
<b>Professional Education Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
EDF 804	Teaching and Leading with Tech	2
<b>Middle Grades Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3

### Concentrations

Students must select one of the following Concentrations: 12-18

- Certification Area Specialization
- English as a Second Language Endorsement/Certification Area Specialization (Grades P-12)
- Gifted Education Endorsement/Certification Area Specialization (Grades P-12)
- Instructional Computer Technology Endorsement/Certification Area Specialization (Grades P-12)
- Literacy Specialist Endorsement/Certification Area Specialization (Grades P-12)
- Dual Credit Content Preparation
- Dual Credit Instructional Computer Technology Teaching Preparation

### Exit Requirements

Instructional Computer Technology Endorsement/Certification Area Specialization (Grades P-12)		
Literacy Specialist Endorsement/Certification Area Specialization (Grades P-12)		
Dual Credit Content Preparation		
Dual Credit Instructional Computer Technology Teaching Preparation		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878C	MAED Middle Grd Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EMS 855	Gifted and Talented Youth	3
EMS 856	Curr in Gifted/Talented Educat	3
EMS 857	Model Prog-Gifted/Talented Edu	3
EMS 858	Practicum-Gifted & Talented Ed	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

The following are the exit requirements for Middle Grade Education:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone <sup>1</sup>.
- GRD 878C MAED Middle Grd Oral Comp Exam.

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878C	MAED Middle Grd Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

<sup>1</sup>

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EDC 810	P12 ED/Tech: Critical Issues	3
EDC 811	P12 Ed/Tech: multimedia Design	3
EDC 812	P12 ED/Tech: Online Learning	3
EDC 813	P12 ED/Tech: Capstone	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

The following are the exit requirements for Middle Grade Education:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone <sup>1</sup>.
- GRD 878C MAED Middle Grd Oral Comp Exam.

<sup>1</sup>

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

# Middle Grades Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Literacy Specialist Endorsement (Grades P#12) (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in middle schools improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and/or team leaders.

## Teacher Leader Endorsement

Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial middle grades teaching certification program. In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.1203

Code	Title	Hours
<b>Professional Education Core</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
EDF 804	Teaching and Leading with Tech	2
<b>Middle Grades Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3

### Concentrations

Students must select one of the following Concentrations:	12-18
Certification Area Specialization	
English as a Second Language Endorsement/Certification Area Specialization (Grades P-12)	
Gifted Education Endorsement/Certification Area Specialization (Grades P-12)	
Instructional Computer Technology Endorsement/Certification Area Specialization (Grades P-12)	
Literacy Specialist Endorsement/Certification Area Specialization (Grades P-12)	
Dual Credit Content Preparation	
Dual Credit Instructional Computer Technology Teaching Preparation	

### Exit Requirements

ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878C	MAED Middle Grd Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

<sup>1</sup>

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ELE 871	Literacy Programs P-5	3
EMS 873	Trends & Issues in ELA	3
EMS 875	Literacy Assess and Instruct	3
EMS 876	Lit., Lead. & Advocate	3

EME 877	Practicum for Read Specialists	3
<b>Total Hours</b>		<b>15</b>

## Exit Requirements

The following are the exit requirements for Middle Grade Education:

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: An action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone<sup>1</sup>.
- GRD 878C MAED Middle Grd Oral Comp Exam.

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Moderate and Severe Disabilities Certification

### Certification Preparation Programs

These are programs of study which do not lead to a degree or to an EKU awarded recognition but instead prepare the student, upon recommendation from EKU, for professional certification by the Commonwealth of Kentucky Education Professional Standards Board.

#### General Information

Candidates pursuing special education certification in Learning and Behavior Disorders, Interdisciplinary Early Childhood Education, and Deaf and Hard of Hearing must hold teaching certification. The certification options are listed below. Additional hours may apply toward a sixth year program (Rank I). It is very important that candidates seek early advisement from the department.

The prerequisites are an undergraduate degree and Kentucky Teaching Certificate in IECE, P-5, P-12, 5-9, 5-12, or Secondary for classroom teachers.

### Admission Requirements

To be eligible for admission into any special education nondegree graduate program (Rank II, I), a candidate must have a minimum undergraduate GPA of 2.75 overall or 3.0 in the last 30 hours of course work.

### Program Requirements

Candidates must also have completed the following or equivalent prerequisite course work:

Code	Title	Hours
<b>Prerequisite Courses</b>		
ELE 445	Foundations of Reading/ Language Arts	3
or EMG 445	Foundation of Reading/Language Arts	
Choose from one of the following:		3
ELE 446		
EMG 447	Disciplinary Literacy in the Middle Grades	

EMG 806	Read Instruction Middle School	
ELE 820	Literacy Foundation P-5	3
MAE 201	Mathematical Concepts for P-9 I	3
MAE 202	Mathematical Concepts for P-9 II	3
MAE 302	Mathematical Concepts for P-9 III	3
or ELE 822	Mathematical Foundations P-5	
<b>Required Courses</b>		
SED 774	Field Exp with Excep Learners <sup>1</sup>	3
SED 819	Mod/Sev Disabilities Intro	3
SED 821	MSD Tech/Research-Based Strat	3
SED 823	Mod/Sev Disab Methods	3
SED 825	Lang Disorder Students Disabil	3
SED 826	Best Practices in Spec Edu	3
SED 837	Applied Behavior Analysis	3
SED 845	Spec Ed Transition/Collab	3
SED 897	Practicum in Special Education	3-6
OTS 715	Early Child Sensorimotor Devel	3
or SED 808	Spec Ed Early Childhood Survey	

**Total Hours 48-51**

1

SED 774 Field Exp with Excep Learners can be waived with one year of successful teaching of students with MSD.

Note: Completion of the above program will not suffice for completion of a Rank program. For MSD Certification, the PRAXIS test in the area of a specialty must be passed.

## Rank I (Sixth Year) Program

The College of Education and Applied Human Sciences, in cooperation with the offering departments within the College of Education and Applied Human Sciences, other colleges of the University, and the Office of Graduate Education and Research, offers Rank I programs for teachers, school counselors, school administrators, supervisors, directors of pupil personnel, and directors of special education.

Program guidelines are highly flexible. General institutional guidelines include:

1. A minimum 30-semester hour program in addition to:
  - a. requirements for Rank II classification, or
  - b. 60 semester hours including the master's degree.
2. Each program shall be planned in consultation with the candidate's advisor prior to completion of nine hours of course work applicable to the program. The planned program shall be filed with the Office of Licensure and Certification. Upon application by the candidate and completion of the program, the College of Education and Applied Human Sciences certification officer shall recommend Rank I classification to the Kentucky Department of Education.
3. Candidates shall be fully admitted to the Graduate School prior to approval of the Rank I planned curriculum by the advisor and the filing of the curriculum with the Office of Licensure and Certification.
4. At least 15 semester hours shall be taken at Eastern Kentucky University. The remaining 15-semester hours credit may be taken at EKU or, upon approval by the advisor, at other accredited graduate schools and transferred.

5. All courses in the 30 semester hour requirement for Rank I shall be graduate level and a "B" average shall be required for certification. No credit shall be allowed for any course carrying a grade lower than "C." At least 12 hours shall be courses open only to graduate candidates. Only graduate credits not used in the Rank II (fifth-year non-degree program) shall be considered in the Rank I program. All CAA 85 credits earned in the master's degree program can be included in the 60 hours required for completion of the Rank I program.
6. The Rank I program shall include six additional semester hours of professional education, 24 hours of courses in a certified teaching field (combined in the Rank II and Rank I programs) and free electives to total 30 semester hours. Preparation certification programs for school administrators, school counselors, pupil personnel directors, and directors of special education can be part of a Rank I program.
7. Course credit specified for Rank I cannot be more than 10 years old at the completion of the program.
8. For any specific requirement applicable to special fields or individual departments, contact the appropriate department or school.

The Office of Licensure and Certification receives and processes applications for teaching certificates (Rank III, II and I) and additional certificates for school personnel (principals, supervisors, superintendents, directors of special education, school counselors, school psychologists, and pupil personnel directors). Questions may be directed to a College of Education and Applied Human Sciences certification officer at [coecert@eku.edu](mailto:coecert@eku.edu) or (859) 622-1829.

Planned programs for degree and non-degree teacher certification programs are received and maintained in the Licensure and Certification Office.

Candidates seeking initial teaching certification must meet all the requirements for admission to the teacher education program as stated in the Undergraduate Catalog. Candidates pursuing an alternative route to certification will follow the admission requirements as described in the program display.

The Rank I requires a minimum of 60 hours if a master's program is included or a minimum of 30 additional hours after completion of a planned Rank II program.

## Admission Requirements

- Admission to the Graduate School
- A bachelor's or master's degree with a cumulative grade point average of 3.0 on a 4.0 scale or a grade point in the last 60 hours of credit completed, including undergraduate and graduate coursework
- A Verbal score of 150, a Quantitative score of 143 and an Analytical Writing score of 4.0 on the GRE. Applicants with a cumulative GPA of 3.0 or higher or a 3.25 in the last 60 semester hours are exempt from the Entrance Examinations.
- Statement of Eligibility or Professional Certificate with EPSB
- Candidates must have a Master's degree or Rank II certification through a regionally accredited institution.
- Reference inventory on Candidate Dispositions (which candidates receives from a colleague or administrator who has worked directly with the candidate): In the areas of Communication, Collaboration, Critical Thinking, and Creativity, the candidate must receive a rating of 3 or higher to be eligible for admission to advanced programs.
- Professional Code of Ethics, Character Fitness Declaration, and Professional Dispositions

- Candidates must review the Professional Code of Ethics for Kentucky School Certified Personnel established in 16 KAR 1:020 and sign a COE Professional Code of Ethics for Kentucky Declaration form.
- Candidates must review the character and fitness questionnaire contained in Section III of the CA-1 incorporated by reference in 16 KAR 2:010 and sign a COE Professional Character and Fitness Declaration form.
- Candidates must demonstrate understanding of professional dispositions expected of Professional educators.

## Program Requirements

Minimum Program Total - 30 hours

Code	Title	Hours
<b>Special Education Courses</b>		
	Approved by Advisor	15
	Elective	9
	Professional Education	6
<b>Total Hours</b>		<b>30</b>

## Curriculum for Sixth Year/Non-degree Rank I Program: Elementary, Middle, Secondary, P#12

Minimum Program Total - 30 hours

Code	Title	Hours
	Professional Education	6
	Courses in Certified Teaching Area	12
	Electives	12
<b>Total Hours</b>		<b>30</b>

## Exit Requirements

- Complete all required coursework within the time allotted.
- Earn a GPA of 3.0 on a 4.0 scale with no grade lower than a C.
- Successfully complete a Professional Growth Plan, Program Portfolio and Exit Interview.
- Pass PRAXIS exam, if required.

## School Librarian, Master of Arts in Education with a Concentration in Additional Certification (M.A.Ed.)

(Programs Available Online)

## General Information

The Master of Arts in Education School Librarian program prepares professionals for work in P-12 schools as School Librarians.

## Admission Requirements

- Candidates must meet the admissions requirements of the Graduate School (undergraduate GPA of 2.5 – candidates who do not have a cumulative GPA of 2.5 may be considered for probationary admission to the graduate school upon completion of the GRE. If required to take the GRE, program requirements are a minimum Verbal score of

150, a Quantitative score of 143 and an Analytical Writing score of 4.0).

- Candidates must also meet the admissions requirements of the Program: a) have completed an initial teaching certification program in IECE, elementary, middle, or secondary/P-12/5-12 education, and b) per EPSB (16 KAR 5:020) candidates must have earned an overall 2.75 on a 4.0 scale undergraduate GPA or a 3.0 on a 4.0 scale in the last 30 hours completed.

A background check must be completed prior to enrolling in LIB 870 P-12 School Media Lib Pract.

## Program Requirements

CIP Code: 13.1334

Code	Title	Hours
<b>Core Courses</b>		
LIB 800	Org & Admin/School Media Ctr	3
LIB 801	Educational Technologies	3
LIB 802	Lit & Resources for Yng Adults	3
LIB 805	Children's Lit & Resources	3
LIB 821	Info Literacy Resources & Ser	3
EPY 869	Research & Program Evaluation <sup>1</sup>	3
or ETL 805	Research Metho for Educ Profes	
<b>Concentrations</b>		
Students must select one of the following Concentrations:		13-18
Additional Certification Concentration (Online)		
Endorsement Concentration (Some are Online)		
<b>Exit Requirements</b>		
GRD 878Y	MAED Lib Sci Port Exit Review (Portfolio Review)	0
<b>Total Hours</b>		<b>31-36</b>

1

Candidates selecting a teacher leader endorsement option will replace EPY 869 Research & Program Evaluation with ETL 805 Research Metho for Educ Profes.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ELE 871	Literacy Programs P-5	3
or EMG 806	Read Instruction Middle School	
ETL 803	Curriculum for Teacher Leaders	3
LIB 831	Organization and Access	3
LIB 841	Info Sys Dsgn/Dev for Schl Lib	3
LIB 870	P-12 School Media Lib Pract	3
<b>Total Hours</b>		<b>15</b>

## Exit Requirements

The following are the exit requirements for School Librarian:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major

program components. Successful completion of all key assessments and evaluation in the College's digital portfolio database is required.

- Research Requirement: EPY 869 or ETL 805 /ETL 906 are the research methods courses for this program. MAEd. School Librarian candidates with a Teacher-Leader secondary concentration take ETL 805 and ETL 806, culminating in an action research project which culminates in a technology enhanced presentation. All other MAEd. School Librarian candidates fulfill research requirements through EPY 869.
- The professional portfolio is a requirement for the program. Students complete the portfolio review as part of GRD 878Y.
- LIB 870 is considered the professional practice experience for this program.

## Certification Examination

While the passing of the certification examination is not a requirement to earn the Master of Education in School Librarian, Kentucky does require a passing score on the PRAXIS II Subject Assessments-Library Media Specialist for certification as a school media librarian. Candidates will be required to take the PRAXIS II Subject Assessments-Library Media Specialist in order to complete the program. Students outside of Kentucky are responsible for determining the requirements for certification in their states.

## School Librarian, Master of Arts in Education with a Concentration in Endorsement (M.A.Ed.)

(Programs Available Online)

## General Information

The Master of Arts in Education School Librarian program prepares professionals for work in P-12 schools as School Librarians.

## Admission Requirements

- Candidates must meet the admissions requirements of the Graduate School (undergraduate GPA of 2.5 –candidates who do not have a cumulative GPA of 2.5 may be considered for probationary admission to the graduate school upon completion of the GRE. If required to take the GRE, program requirements are a minimum Verbal score of 150, a Quantitative score of 143 and an Analytical Writing score of 4.0).
- Candidates must also meet the admissions requirements of the Program: a) have completed an initial teaching certification program in IECE, elementary, middle, or secondary/P-12/5-12 education, and b) per EPSB (16 KAR 5:020) candidates must have earned an overall 2.75 on a 4.0 scale undergraduate GPA or a 3.0 on a 4.0 scale in the last 30 hours completed.

A background check must be completed prior to enrolling in LIB 870 P-12 School Media Lib Pract.

## Program Requirements

CIP Code: 13.1334

Code	Title	Hours
<b>Core Courses</b>		
LIB 800	Org & Admin/School Media Ctr	3

LIB 801	Educational Technologies	3
LIB 802	Lit & Resources for Yng Adults	3
LIB 805	Children's Lit & Resources	3
LIB 821	Info Literacy Resources & Ser	3
EPY 869	Research & Program Evaluation <sup>1</sup>	3
or ETL 805	Research Metho for Educ Profes	

<b>Concentrations</b>		
Students must select one of the following Concentrations:		13-18
Additional Certification Concentration (Online)		
Endorsement Concentration (Some are Online)		

<b>Exit Requirements</b>		
GRD 878Y	MAED Lib Sci Port Exit Review (Portfolio Review)	0

**Total Hours** 31-36

<sup>1</sup>  
Candidates selecting a teacher leader endorsement option will replace EPY 869 Research & Program Evaluation with ETL 805 Research Metho for Educ Profes.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		

LIB 870	P-12 School Media Lib Pract (Endorsement)	1-3
Candidates may select an approved EPSB licensure endorsement to fulfill the endorsement concentration. Refer to the Endorsement list at the beginning section for the College of Education and Applied Human Sciences. Access endorsement course requirements at the respective department website.		

**Total Hours** 15-18

### Exit Requirements

The following are the exit requirements for School Librarian:

- Program GPA: Candidates must earn an overall GPA of 3.0 or higher, with no grade lower than a C.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components. Successful completion of all key assessments and evaluation in the College's digital portfolio database is required.
- Research Requirement: EPY 869 or ETL 805/ETL 906 are the research methods courses for this program. MAEd. School Librarian candidates with a Teacher-Leader secondary concentration take ETL 805 and ETL 806, culminating in an action research project which culminates in a technology enhanced presentation. All other MAEd. School Librarian candidates fulfill research requirements through EPY 869.
- The professional portfolio is a requirement for the program. Students complete the portfolio review as part of GRD 878Y .
- LIB 870 is considered the professional practice experience for this program.

### Certification Examination

While the passing of the certification examination is not a requirement to earn the Master of Education in School Librarian, Kentucky does require a passing score on the PRAXIS II Subject Assessments-Library Media Specialist for certification as a school media librarian. Candidates will be required to take the PRAXIS II Subject Assessments-Library

Media Specialist in order to complete the program. Students outside of Kentucky are responsible for determining the requirements for certification in their states.

## Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Certification Area Specialization (M.A.Ed.)

### General Information

The curriculum is designed to help teachers certified to teach in secondary programs (P-12, 5-12, or 8-12) improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and / or team leaders. Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

### Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial teaching certification program in secondary programs (P-12, 5-12, or 8-12). In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

### Program Requirements

CIP Code: 13.0409

Code	Title	Hours
<b>Professional Education Core</b>		
EDF 804	Teaching and Leading with Tech	2
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
<b>Secondary Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language (Grades P-12) Endorsement		
Gifted Education (Grades P-12) Endorsement		
Literacy Specialist (Grades P-12) Endorsement		
Preparation to Teach Dual Credit Music		
Preparation to Teach Dual Credit - Other Subject Area Concentrations		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878I	MAED Secnd Ed Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
	Subject matter or education coursework selected in consultation with advisor. courses selected to strengthen candidate's knowledge in area(s)of certification. (Subject areas include; Agriculture, Art, Biology, Business & Marketing, Chemistry, Earth Science, Engineering and Technology, English, Family and Consumer Science, French, Health, Mathematics, Music, Physical Education, Physics, and Social Science/History).	12
<b>Total Hours</b>		<b>12</b>

### Exit Requirements

The following are the exit requirements for all Master of Arts in Education - Secondary Education programs.

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: an action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone.
- GRD 878I MAED Secnd Ed Oral Comp Exam is also required.

## Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in English as a Second Language (Grades P#12) Endorsement (M.A.Ed.)

### General Information

The curriculum is designed to help teachers certified to teach in secondary programs (P-12, 5-12, or 8-12) improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and / or team leaders. Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

### Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial teaching certification program in secondary programs (P-12, 5-12, or 8-12). In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.0409

Code	Title	Hours
<b>Professional Education Core</b>		
EDF 804	Teaching and Leading with Tech	2
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
<b>Secondary Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language (Grades P-12) Endorsement		
Gifted Education (Grades P-12) Endorsement		
Literacy Specialist (Grades P-12) Endorsement		
Preparation to Teach Dual Credit Music		
Preparation to Teach Dual Credit - Other Subject Area Concentrations		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878I	MAED Secnd Ed Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EME 751	Linguistics in the Curriculum	3
EMS 775	Methods for Multilingual Learners	3
EMS 776	Assessment Methods for ELLs	3
EMS 777	Culturally and Linguistically Responsive Teaching	3
<b>Total Hours</b>		<b>12</b>

### Exit Requirements

The following are the exit requirements for all Master of Arts in Education - Secondary Education programs.

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: an action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone.
- GRD 878I MAED Secnd Ed Oral Comp Exam is also required.

# Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Gifted Education (Grades P#12) Endorsement (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in secondary programs (P-12, 5-12, or 8-12) improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and / or team leaders. Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial teaching certification program in secondary programs (P-12, 5-12, or 8-12). In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.0409

Code	Title	Hours
<b>Professional Education Core</b>		
EDF 804	Teaching and Leading with Tech	2
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
<b>Secondary Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language (Grades P-12) Endorsement		
Gifted Education (Grades P-12) Endorsement		
Literacy Specialist (Grades P-12) Endorsement		
Preparation to Teach Dual Credit Music		
Preparation to Teach Dual Credit - Other Subject Area Concentrations		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 8781	MAED Secnd Ed Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
EMS 855	Gifted and Talented Youth	3
EMS 856	Curr in Gifted/Talented Educat	3
EMS 857	Model Prog-Gifted/Talented Edu	3
EMS 858	Practicum-Gifted & Talented Ed	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

The following are the exit requirements for all Master of Arts in Education - Secondary Education programs.

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: an action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone.
- GRD 8781 MAED Secnd Ed Oral Comp Exam is also required.

# Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Literacy Specialist (Grades P#12) Endorsement (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in secondary programs (P-12, 5-12, or 8-12) improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and / or team leaders. Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial teaching certification program in secondary programs (P-12, 5-12, or 8-12). In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.0409

Code	Title	Hours
<b>Professional Education Core</b>		
EDF 804	Teaching and Leading with Tech	2
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
<b>Secondary Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language (Grades P-12) Endorsement		
Gifted Education (Grades P-12) Endorsement		
Literacy Specialist (Grades P-12) Endorsement		
Preparation to Teach Dual Credit Music		
Preparation to Teach Dual Credit - Other Subject Area Concentrations		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878I	MAED Secnd Ed Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
ELE 871	Literacy Programs P-5	3
EMS 873	Trends & Issues in ELA	3
EMS 875	Literacy Assess and Instruct	3
EMS 876	Lit., Lead. & Advocate	3
EME 877	Practicum for Read Specialists	3
<b>Total Hours</b>		<b>15</b>

## Exit Requirements

The following are the exit requirements for all Master of Arts in Education - Secondary Education programs.

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: an action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone.
- GRD 878I MAED Secnd Ed Oral Comp Exam is also required.

# Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Preparation to Teach Dual Credit Music (M.A.Ed.)

## General Information

The curriculum is designed to help teachers certified to teach in secondary programs (P-12, 5-12, or 8-12) improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and / or team leaders. Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

## Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial teaching certification program in secondary programs (P-12, 5-12, or 8-12). In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.0409

Code	Title	Hours
<b>Professional Education Core</b>		
EDF 804	Teaching and Leading with Tech	2
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
<b>Secondary Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language (Grades P-12) Endorsement		
Gifted Education (Grades P-12) Endorsement		
Literacy Specialist (Grades P-12) Endorsement		
Preparation to Teach Dual Credit Music		
Preparation to Teach Dual Credit - Other Subject Area Concentrations		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 878I	MAED Secnd Ed Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
MUS 755	Symphonic Music Literature	3
MUS 756	Choral Music Literature	3
MUS 872		3
MUS 878	Foundations of Music	3
MUS 887	Analytical Techniques I	3
	Choose from one advisor approved elective	3
<b>Total Hours</b>		<b>18</b>

### Exit Requirements

The following are the exit requirements for all Master of Arts in Education - Secondary Education programs.

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: an action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone.
- GRD 8781 MAED Secnd Ed Oral Comp Exam is also required.

## Secondary Education, Master of Arts with Teacher Leader Endorsement Preparation with a Concentration in Preparation to Teach Dual Credit # Other Subject Area Concentrations (M.A.Ed.)

### General Information

The curriculum is designed to help teachers certified to teach in secondary programs (P-12, 5-12, or 8-12) improve their professional skills, extend their knowledge of the subjects they teach, and increase their understanding of the intellectual, philosophical, sociological, psychological, and cultural foundations of effective education in order to serve as instructional leaders, teacher mentors, literacy or math coaches, instructional facilitators, department chairs and / or team leaders. Candidates will be eligible to apply for the Teacher Leader Endorsement upon completion of this program.

### Admission Requirements

Candidates must meet the admissions requirements of the Graduate School and have completed an initial teaching certification program in secondary programs (P-12, 5-12, or 8-12). In addition, candidates must have earned an overall 3.0 undergraduate GPA or a 3.0 in the last 30 hours completed.

## Program Requirements

CIP Code: 13.0409

Code	Title	Hours
<b>Professional Education Core</b>		
EDF 804	Teaching and Leading with Tech	2
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
<b>Secondary Program Supporting Coursework</b>		
EMG 806	Read Instruction Middle School	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12-18
Certification Area Specialization		
English as a Second Language (Grades P-12) Endorsement		
Gifted Education (Grades P-12) Endorsement		
Literacy Specialist (Grades P-12) Endorsement		
Preparation to Teach Dual Credit Music		
Preparation to Teach Dual Credit - Other Subject Area Concentrations		
<b>Exit Requirements</b>		
ETL 806	Teacher Leader Capstone <sup>1</sup>	1
GRD 8781	MAED Secnd Ed Oral Comp Exam	0
<b>Total Hours</b>		<b>30-36</b>

1

ETL 806 Teacher Leader Capstone is repeatable for candidates not completing their Capstone Research Project in one semester. Candidates may register for ETL 806 Teacher Leader Capstone only in the last semester of study and after successful completion of the prerequisite course, ETL 805 Research Metho for Educ Profes.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
	Other subject area concentrations may be chosen in consultation with education advisor and content specialist after transcript evaluation of prior coursework	18
<b>Total Hours</b>		<b>18</b>

### Exit Requirements

The following are the exit requirements for all Master of Arts in Education - Secondary Education programs.

- Program GPA: Candidates must earn overall GPA of 3.0 or higher, with no grade lower than a C.
- Research Requirement: an action research project which culminates in a technology enhanced presentation is required in ETL 806 Teacher Leader Capstone.
- GRD 8781 MAED Secnd Ed Oral Comp Exam is also required.

# Special Education, Master of Arts in Education (M.A.Ed.)

Dr. Michelle Grempp, Graduate Coordinator

The Department of Teaching, Learning, & Educational Leadership also offers graduate programs leading to the Master of Arts in Education in Special Education, and Rank I. Options for the Master of Arts in Education in Special Education include Advanced Study with Teacher Leader endorsement in Interdisciplinary Early Childhood Education or Adding Certification in Learning and Behavior Disorders, Education of the Deaf and Hard of Hearing, Interdisciplinary Early Childhood Education, or Moderate to Severe Disabilities. In addition, the Department offers certification only programs in Learning and Behavior Disorders, Education of the Deaf and Hard of Hearing, Interdisciplinary Early Childhood Education, and Moderate and Severe Disabilities. The Master of Arts in Education, non-teaching option, is offered in Interdisciplinary Early Childhood Education. Candidates should consult with a graduate advisor for the desired certification program as early as possible.

## General Information

Options include the Master of Arts in Education in Special Education with Teacher Leader Endorsement for Advanced Study, or Additional Certification in Learning and Behavior Disorders, Moderate and Severe Disabilities, Deaf and Hard of Hearing, or Interdisciplinary Early Childhood Education.

## Admission Requirements

For clear admission to all MAEd program options the student must meet admission requirements for the Graduate School plus the following program requirements:

- an undergraduate GPA of 3.0 overall or a 3.0 in the last 30 hours completed, or
- a verbal score of 150, a qualitative score of 143, and writing score of 4.0 on the GRE or a Miller Analogies Test (MAT) scaled score of 389. Those seeking probationary admission are required to submit target GRE scores.

## Program Admissions

### MAEd Option A: Advanced Study Interdisciplinary Early Childhood Education Teaching with Teacher Leader Endorsement

- Valid teaching certificate in IECE.

### Interdisciplinary Early Childhood Education Non-teaching

- Prerequisites for entering the IECE non teaching option are a bachelor's degree in an education related discipline from an accredited institution;
- Prerequisite course work (completed or equivalent):

Code	Title	Hours
SED 104 or SED 800	Special Education Introduction Exceptl Learners Gen Ed Class	3
CDF 235 or CDF 741	Child Development: Conception-Eight Years Infant Toddler Dev&Group Care	3

### MAEd Option B: Adding Certification Learning and Behavior Disorders (LBD)

- Prerequisites: KY Teaching Certificate in P-5, P-12, 5-9, 5-12, or Secondary for Classroom Teachers;
- Successful completion of equivalent coursework for:

Code	Title	Hours
SED 104 or SED 800	Special Education Introduction Exceptl Learners Gen Ed Class	3
ELE 302 or EMG 445	Language Arts Foundations Grades P-5 Foundation of Reading/Language Arts	3
Choose from one of the following:		3
EMG 447	Disciplinary Literacy in the Middle Grades	
EMG 806	Read Instruction Middle School	
ELE 820	Literacy Foundation P-5	
MAE 201	Mathematical Concepts for P-9 I	3
MAE 202	Mathematical Concepts for P-9 II	3
MAE 302 or ELE 822	Mathematical Concepts for P-9 III Mathematical Foundations P-5	3

### Deaf and Hard of Hearing (DHH)

- Prerequisites: KY Provisional Teaching Certificate in P-5, P-12, 5-9, 5-12, or Secondary for Classroom Teachers;
- Successful completion of equivalent coursework for:

Code	Title	Hours
ELE 302 or EMG 445	Language Arts Foundations Grades P-5 Foundation of Reading/Language Arts	3
Choose from one of the following:		
EMG 447	Disciplinary Literacy in the Middle Grades	
EMG 806	Read Instruction Middle School	
ELE 820	Literacy Foundation P-5	
MAE 201	Mathematical Concepts for P-9 I	3
MAE 202	Mathematical Concepts for P-9 II	3
MAE 302 or ELE 822	Mathematical Concepts for P-9 III Mathematical Foundations P-5	3
SED 104 or SED 800	Special Education Introduction Exceptl Learners Gen Ed Class	3
ASL 101	American Sign Language I	3
ASL 102	American Sign Language II	3

### Interdisciplinary Early Childhood Education (IECE)

- Prerequisites: KY Provisional Teaching Certificate in P-5, P-12, 5-9, 5-12, or Secondary for Classroom Teachers;
- Successful completion of equivalent coursework for:

Code	Title	Hours
SED 104 or SED 800	Special Education Introduction Exceptl Learners Gen Ed Class	3

### Moderate to Severe Disabilities (MSD)

- Prerequisites: KY Teaching Certificate in P-5, P-12, 5-9, 5-12, or Secondary for Classroom Teachers;
- Successful completion of equivalent coursework for:

Code	Title	Hours
ELE 302	Language Arts Foundations Grades P-5	3
or EMG 445	Foundation of Reading/Language Arts	
Choose from one of the following:		
EMG 447	Disciplinary Literacy in the Middle Grades	
EMG 806	Read Instruction Middle School	
ELE 820	Literacy Foundation P-5	
MAE 201	Mathematical Concepts for P-9 I	3
MAE 202	Mathematical Concepts for P-9 II	3
MAE 302	Mathematical Concepts for P-9 III	3
or ELE 822	Mathematical Foundations P-5	
SED 104	Special Education Introduction	3
or SED 800	Exceptl Learners Gen Ed Class	

## Program Requirements

CIP Code: 13.1001

### Advanced Study in Special Education

Curriculum for students pursuing Advanced Study in Special Education: (available as either Teaching or Non-teaching)

#### Interdisciplinary Early Childhood Education (IECE) Teaching

Code	Title	Hours
<b>Required Courses</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
ETL 806	Teacher Leader Capstone	1
EDF 804	Teaching and Leading with Tech	2
SED 802	Adv Early Childhd Intervn Prog	3
SED 811	IECE Assessment	3
SED 825	Lang Disorder Students Disabil	3
SED 827	Early Ch Spec Ed Partnerships	3
SED 837	Applied Behavior Analysis	3
<b>Comprehensive Written Exam</b>		
GRD 877M	MAED Spec Ed Written Comp	0
<b>Total Hours</b>		<b>30</b>

#### Interdisciplinary Early Childhood Education (IECE) Non-teaching

Code	Title	Hours
<b>Required Courses</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 805	Research Metho for Educ Profes	3
ETL 806	Teacher Leader Capstone	1
EDF 804	Teaching and Leading with Tech	2
SED 802	Adv Early Childhd Intervn Prog	3
SED 808	Spec Ed Early Childhood Survey	3
SED 811	IECE Assessment	3
SED 825	Lang Disorder Students Disabil	3
SED 827	Early Ch Spec Ed Partnerships	3
SED 837	Applied Behavior Analysis	3
OTS 715	Early Child Sensorimotor Devel	3
<b>Comprehensive Written Exam</b>		

GRD 877M	MAED Spec Ed Written Comp	0
<b>Total Hours</b>		<b>30</b>

### Additional Certification Areas

Curriculum for students pursuing additional certification:

#### Learning and Behavior Disorders (LBD)

Code	Title	Hours
<b>Required Courses</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 805	Research Metho for Educ Profes	3
ETL 806	Teacher Leader Capstone	1
EDF 804	Teaching and Leading with Tech	2
SED 812	Intro Spec Edu Assesment	3
SED 817	Behavior Disorders	3
SED 825	Lang Disorder Students Disabil	3
SED 837	Applied Behavior Analysis	3
SED 845	Spec Ed Transition/Collab	3
SED 856	Graduate Methods and Materials	3
SED 897	Practicum in Special Education	3
<b>Comprehensive Oral Exam</b>		
GRD 878V	MAED Spec Ed Oral Comp	0
<b>Total Hours</b>		<b>30</b>

#### Deaf and Hard of Hearing (DHH)

Code	Title	Hours
<b>Required Courses</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 805	Research Metho for Educ Profes	3
ETL 806	Teacher Leader Capstone	1
EDF 804	Teaching and Leading with Tech	2
SED 738	Languag of Deaf & Hrd of Hring	3
SED 780	Audiology for Teachers of DHH	3
SED 781	Speech F/T Deaf & HH	3
SED 808	Spec Ed Early Childhood Survey	3
SED 825	Lang Disorder Students Disabil	3
SED 830	Survey of Ed of Deaf and HoH	3
SED 850	Assess/Prog/Methods, D/HH	3
SED 897	Practicum in Special Education	3
ASL 101	American Sign Language I	3
ASL 102	American Sign Language II	3
<b>Comprehensive Oral Exam</b>		
GRD 878V	MAED Spec Ed Oral Comp	0
<b>Total Hours</b>		<b>39</b>

#### Interdisciplinary Early Childhood Education (IECE)

Code	Title	Hours
<b>Required Courses</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 805	Research Metho for Educ Profes	3
ETL 806	Teacher Leader Capstone	1
EDF 804	Teaching and Leading with Tech	2
SED 802	Adv Early Childhd Intervn Prog	3
SED 808	Spec Ed Early Childhood Survey	3

SED 811	IECE Assessment	3
SED 825	Lang Disorder Students Disabil	3
SED 827	Early Ch Spec Ed Partnerships	3
SED 837	Applied Behavior Analysis	3
SED 897	Practicum in Special Education	3
<b>Comprehensive Oral Exam</b>		
GRD 878V	MAED Spec Ed Oral Comp	0
<b>Total Hours</b>		<b>30</b>

### Moderate to Severe Disabilities (MSD)

Code	Title	Hours
<b>Required Courses</b>		
ETL 800	Leadership Skills for Teachers	3
ETL 805	Research Metho for Educ Profes	3
ETL 806	Teacher Leader Capstone	1
EDF 804	Teaching and Leading with Tech	2
SED 819	Mod/Sev Disabilities Intro	3
SED 821	MSD Tech/Research-Based Strat	3
SED 823	Mod/Sev Disab Methods	3
SED 825	Lang Disorder Students Disabil	3
SED 837	Applied Behavior Analysis	3
SED 845	Spec Ed Transition/Collab	3
SED 897	Practicum in Special Education	3
SED 808	Spec Ed Early Childhood Survey	3
or OTS 715	Early Child Sensorimotor Devel	
<b>Comprehensive Oral Exam</b>		
GRD 878V	MAED Spec Ed Oral Comp	0
<b>Total Hours</b>		<b>33</b>

## Additional Information Regarding Exit Requirements

The following are exit requirements for Master of Arts in Education in Special Education candidates:

- Program GPA: Candidate must earn an overall GPA of 3.0 or higher, with no grade below a C.
- Key Assessments: Candidates will have opportunities to demonstrate professional growth through key assessments covering major program components. Successful completion of all key assessments and evaluation in the College's digital portfolio database is required.
- Oral presentation of Capstone Research project and approval by graduate faculty advisor in ETL 806 Teacher Leader Capstone.
- GRD 877M MAED Spec Ed Written Comp – Comprehensive Written Exam or GRD 878V MAED Spec Ed Oral Comp – Comprehensive Oral Exam
- For Option B, adding certification and/or rank change candidates must pass the appropriate PRAXIS II Exam for new area of certification.
- Candidates seeking licensure in another state should follow the guidelines established by the state's licensing agency.

PRAXIS Disclaimer: Kentucky educator certification requirements are subject to change. Before registering for the test(s), please check the Education Professional Standards Board website at [www.epsb.ky.gov](http://www.epsb.ky.gov) (<http://www.epsb.ky.gov>) for current test requirements and current cut scores. You may also contact the Division of Professional Learning and

Assessment at (502) 564-5846. EKU is not responsible for providing test codes to candidates.

## Teacher Leader, Endorsement Preparation Program

### Endorsement Preparation Programs

These are programs of study which do not lead to a degree or to an EKU awarded recognition but instead prepare the candidate, upon recommendation from EKU, for professional endorsement by the Commonwealth of Kentucky Education Professional Standards Board. In some cases, the endorsement may be earned as part of a degree program.

For information on the following endorsement programs, go to the Teaching, Learning, & Educational Leadership website at [www.curriculum.eku.edu](http://www.curriculum.eku.edu) (<http://www.curriculum.eku.edu>).

### Program Requirements

Code	Title	Hours
ETL 800	Leadership Skills for Teachers	3
ETL 801	Leading Achievement Change	3
ETL 803	Curriculum for Teacher Leaders	3
ETL 805	Research Metho for Educ Profes	3
ETL 806	Teacher Leader Capstone	1
<b>Total Hours</b>		<b>13</b>

## College of Health Sciences

Dr. Daniel Czech, Dean  
Rowlett 203  
(859) 622-1137

Dr. Michael Ballard  
Associate Dean  
Rowlett 204  
(859) 622-1916

### Mission

The mission of the College of Health Sciences is to prepare outstanding health and human service professionals and leaders who contribute to the success and vitality of their communities, the Commonwealth, and the world.

### Vision

The College of Health Sciences will be the premier college that shapes and improves health and well-being, advancing Kentucky and impacting the world!

### Values

- Intellectual vitality: rigor and academic excellence among faculty and students
- Cultural competency: dignity, diversity, and inclusion through culturally sensitive human services and care
- Civic responsibility: stewardship through community, professional service and engagement to enhance quality of life

- Collaboration: inter-professional and cooperative efforts among faculty, staff, students and other stakeholders
- Accountability: characterized by ethical and professional responsibility

## Goals

### EKU Goal 1: Academic Excellence

#### EKU Strategic Direction 1.1 Invest in our Faculty

**CHS SD 1.1.1** The College of Health Sciences (CHS) will support faculty scholarly research and creative endeavors.

#### EKU Strategic Direction 1.2 Promote Innovative Instruction and Programming

**CHS SD 1.2.1** The CHS will assess teaching effectiveness and use the results to enhance instruction.

#### EKU Strategic Direction 1.3 Strengthen Academic Programs

**CHS SD 1.3.1** The CHS will continually assess and strengthen academic programs.

**CHS SD 1.3.2** The CHS will provide nationally recognized, high quality, accredited and approved programs.

### EKU Goal 2: Commitment to Student Success

#### EKU Strategic Direction 2.1 Invest in our Students

**CHS SD 2.1.1** The CHS graduates will meet or exceed national pass rates on licensure certifications and standardized exam results.

**CHS SD 2.1.2** The CHS will support students' scholarly research and creative endeavors.

#### EKU Strategic Direction 2.2 Focus on Strategic Enrollment

**CHS SD 2.2.1** The CHS will demonstrate a commitment to diversity.

#### EKU Strategic Direction 2.3 Increase Efforts to Retain and Graduate Students

**CHS SD 2.3.1** The CHS will assess advising effectiveness and use the results to strengthen advising.

### EKU Goal 3: Institutional Distinction

#### EKU Strategic Direction 3.1 Invest in our Staff

**CHS SD 3.1.1** The CHS will support staff professional development opportunities.

#### EKU Strategic Direction 3.2 Advance the EKU Brand

**CHS SD 3.2.1** The CHS will have a brand and communication strategy.

#### EKU Strategic Direction 3.3 Create a Diverse, and Inclusive University Culture

**CHS SD 3.3.1** The CHS will celebrate faculty, staff and student scholarly research and creative endeavors.

### EKU Goal 4: Financial Strength

#### EKU Strategic Direction 4.1 Optimize Campus Resources

**CHS SD 4.1.1** The Administrative Council for CHS will annually examine measures related to our financial effectiveness to include: workload, class size, and faculty and staff issues to strengthen programs.

#### EKU Strategic Direction 4.2 Increase External Support

**CHS SD 4.2.1** The CHS will engage alumni, friends and other stakeholders.

### EKU Goal 5: Campus Revitalization

**EKU Strategic Direction 5.1** Initiate and complete EKU Revitalization plan, which includes rehabilitation of existing facilities and construction of new ones with a focus on the EKU student experience.

**CHS SD 5.1.1** The CHS will assess classrooms, labs, offices, technology, and student-centered facilities required to support program growth.

### EKU Goal 6: Service to Communities and Region

**EKU Strategic Direction 6.1** Become the 1st Choice Partner in Regional Educational, Economic, Cultural, and Social Development

**CHS SD 6.1.1** Collaborate with the University's regional community partners to promote academic achievement, economic development, and quality of life.

**EKU Strategic Direction 6.2** Become Nationally Prominent in Fields and Regional Relevance

**CHS SD 6.2.1** The CHS will continue to strengthen quality community and regional partnerships.

**CHS SD 6.2.2** The CHS will continue to bring distinction to our region with nationally recognized, accessible programs to promote engagement and improve health and quality of life.

#### EKU Strategic Direction 6.3 Bring EKU to Our Service Region

**CHS SD 6.3.1** Collaborate with the University's regional community partners to promote academic achievement, economic development, and quality of life. (Same as 6.1.1)

#### EKU Strategic Direction 6.4 Bring Our Service Region to EKU

**CHS SD 6.4.1** CHS will offer college programs, activities, and events to encourage travel to EKU campus that improve health and quality of life.

## Clinical Agency Placement Requirements

Placement in clinical sites for certain programs in the College of Health Sciences requires students to meet specific clinical agency placement requirements. Clinical agency placement requirements for certain programs (particularly those involving direct patient contact and/or practice with children) require a criminal background check and/or a urine drug screen. Students whose results from these screenings do not meet clinical agency placement requirements will be unable to participate in clinical experiences which are required for satisfactory progression and completion of the program. Most clinical agencies and programs where students may be potentially exposed to blood borne pathogens mandate that students comply with the Hepatitis B vaccination requirement. [see Blood Borne Pathogens and Hepatitis B Statement]. Other requirements may include documentation of tuberculosis screenings indicating student is free of disease, specific immunizations, certifications, licensures, student professional liability insurance purchased through the University [see Student Liability (Malpractice) Insurance], and individual health insurance. Students who have not met clinical agency placement

requirements will not be permitted to participate in clinical and laboratory learning experiences mandated for satisfactory progression and completion of the program. Specific requirements for individual programs may be obtained by contacting the departmental office for the program.

## Student Agreement Statement

Programs in the College of Health Sciences may require a student to sign an agreement statement that encompasses professional expectations related to the program. This statement is to be signed when the student enters courses in the major.

## Student Liability (Malpractice) Insurance

All students whose programs require participation in clinical learning experiences must purchase and maintain liability insurance through the University during the entire clinical experience. Proof of such insurance coverage must be furnished to the department before the clinical experience is scheduled to begin. The University has arranged for appropriate insurance coverage at a modest cost to the student. Further information may be obtained at the student's major departmental office.

## Clinical Facilities

The University maintains formal contracts with many health care Human Services and Educational agencies located throughout Kentucky and the United States. Almost every specialty within the entire health care spectrum is available for use in providing high quality experiences for students enrolled in the programs. A list of cooperating agencies is available through the Office of the Dean.

The University is not liable for, nor is there a fund from which payment can be made for those who are inconvenienced or incur expenses based upon canceled classes, assignments, or clinical placements, etc.

## Bloodborne Pathogens and Hepatitis B Statement

The College of Health Sciences attempts to minimize the risk of exposure to blood borne pathogens for students who will be involved in clinical and laboratory learning experiences where the risk of exposure could occur. To this end, students majoring in clinical programs within the College of Health Sciences where a potential risk of exposure could occur are required to receive education in universal precautions and the Occupational Safety and Health Administration's (OSHA) Bloodborne Pathogens Standard Regulations. Students will be responsible for complying with the Hepatitis B vaccination when indicated before participation in the clinical training phase of their respective programs [see Clinical Agency Placement Requirements]. The Blood Borne Pathogens Exposure Control Plan is posted on the College of Health Sciences website and should be carefully reviewed. More information regarding specific program requirements may be obtained through the departmental offices, program student handbooks, and other program informational sources.

## Graduate Course Credit

All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 levels will not be permitted to

enroll for graduate level credit in the 700 level counterparts. Credit will not be awarded for both the 700 and 500 level of the same course.

## Cross Listed Courses

Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course which they have previously received credit under a cross-listed prefix.

## Health Sciences Learning Resource Center

Dr. Raglena Salmans, Director  
www.hslrc.eku.edu (<http://www.hslrc.eku.edu>)  
(859) 622-2091  
Rowlett 312

The Health Sciences Learning Resource Center (HSLRC) is a center for all students in the College of Health Sciences providing resources for student success. The HSLRC is a one stop shop for students, faculty, and staff as a resource consortium. The full time staff and student workers, work congruently to provide assistance for students to navigate college and the University system. The staff also provide referrals to other ECU resources which students and faculty may not be aware.

- The center includes: audio visuals, manipulative assessments, textbooks for in house use, a quiet and group study/homework center with white boards and large tables for use, a full computer lab with printing and color printing available, as well as student success tutorials and workshops.
- Testing for any required admission exams as well as mid-curricular and exit exams for the School of Nursing. The Center may be used for make-up testing when set up by faculty.
- Tutoring is available through our Study Buddy program. Upperclassmen provide tips, encouragement, and guidance to their peers through meeting and discussing concerns and challenges their fellow students have encountered.
- Research assistance is available in the HSLRC with collaboration from the University Library.

Overall, the center provides opportunity for student success outside of the classroom while still on campus! The Center's administration does require check-in for reporting center usage to the University. All services are provided at no extra cost to students. Visit the website [hslrc.eku.edu](http://hslrc.eku.edu) (<http://hslrc.eku.edu>) for specific hours of operation.

## School of Nursing

Dr. Brooke Bentley, Chair  
www.nursing.eku.edu (<http://www.nursing.eku.edu>)  
(859) 622-1827  
Rowlett 225

Associate Chair  
Dr. Lisa Jones  
(859) 622-1941  
Rowlett 220

The programs in the School of Nursing include Associate of Science in Nursing, Bachelors of Science in Nursing, Masters of Science in Nursing and Doctor of Nursing Practice.

The mission of the School of Nursing is to educate nurses at the Associate, Baccalaureate, Masters and Doctorate levels who work in interprofessional environments to promote health and well-being for diverse populations across the Commonwealth, country and world.

## Doctoral

- Doctor of Nursing Practice (D.N.P) (p. 718)

## Master's

- Master of Science in Nursing with a Concentration in Rural Health Family Nurse Practitioner (M.S.N.) (p. 719)
- Master of Science in Nursing with a Concentration in Rural Psychiatric Mental Health Nurse Practitioner (M.S.N.) (p. 720)

## Certificate

- Family Nurse Practitioner, Post-Graduate Certificate (p. 719)

## Courses

### NSC 700. Early Childhood Health Care. (3 Credits)

A. Prerequisite: education major or permission of instructor. Focuses on the development of competencies necessary for health management of young children (ages birth to five years) with special health care needs. Appropriate for non-health care professionals in the community or classroom.

### NSC 800. Advanced Practice Role. (1-9 Credits)

A. Advanced practice role clinical experience. Students will retake for the minimum number of hours required for their specialty concentration.

### NSC 802. Population-Focused Practice. (1-6 Credits)

A. Clinical experience for graduate nursing administration students to demonstrate population focused nursing leadership competencies. Students will retake for the minimum number of credit hours required for the specialty option.

### NSC 830. Advanced Pharmacology. (3 Credits)

A. Prerequisite: admission to MSN program or department approval. Application of pharmacotherapeutic principles to the treatment and management of conditions across the life span.

### NSC 832. Advanced Health Assessment. (3 Credits)

A. Prerequisite: admission to MSN program or department approval. Emphasis is on the advanced skills necessary for Advanced Practice nursing in assessing the health status of clients from across the life span. Diagnostic reasoning and systems approach will be emphasized.

### NSC 834. Advanced Pathophysiology. (3 Credits)

A. Prerequisite: admission to the MSN program or department approval. Application of advanced pathophysiology to the diagnosis and treatment of conditions across the life span.

### NSC 836. Rural Public Health Nursing I. (2 Credits)

A. Prerequisite: admission to the MSN program. Corequisite: NSC 802. An analysis of the core concepts of advanced public health nursing with an emphasis on rural public health needs, health care systems, and the role of the nurse.

### NSC 837. Three P's- Public Hlth Nursing. (3 Credits)

(3) A. Prerequisite: Admission to the MSN program, HEA 855, NSC 850. Explore the relevance and benefit of epidemiology in the field of organizational healthcare management, including a focus on population outcomes and the 3 P's: Prevalence of disease, Prevention of adverse events, and Preparedness for emergencies.

### NSC 838. Topics for Advanced Practice. (1-6 Credits)

A. Selected topics will be offered as appropriate for enhancement of advanced practice nursing role. May be retaken under different topics for a maximum of six credit hours. A. Selected topics will be offered as appropriate for enhancement of advanced practice nursing role. May be retaken under different topics for a maximum of six credit hours.

### NSC 840. Theoretical Foundation for EBC. (3 Credits)

A. Prerequisite: admission to the MSN program or department approval. Provides a basic understanding of the process of theory construction and an appreciation of the role that theory plays in providing a scientific basis for nursing.

### NSC 842. Advanced Nsg. Practice Issues. (3 Credits)

A. Prerequisite: admission to the MSN program or department approval. Analysis of professional issues and strategies, which can facilitate the development of the nursing profession. Consideration of selected variables influencing the development and resolution of issues.

### NSC 850. Assessment and Collaboration. (3 Credits)

(3) A. Prerequisite or Corequisite: HEA 855 with a minimum grade of B. Analyze Advanced Nursing concepts of assessment and dimensions of practice related to population-focused health care within communities and systems.

### NSC 852. Program and Policy Development. (3 Credits)

(3) A. Prerequisite: NSC 850 with a minimum grade of "B"; Corequisite: Analysis of the core concepts and competencies of advanced nursing Administration with an emphasis on program and policy development and quality improvement initiatives for population-focused health.

### NSC 854. Management of Health Care. (3 Credits)

A. Prerequisite: admission to MSN program. Theoretical basis for the advanced nurse's role in management of health care in rural settings. Strategies for the improvement of health care in rural settings will be analyzed.

### NSC 856. Nursing Resource Management. (3 Credits)

(3) A. Prerequisite: Admission to MSN program. Overview of nursing resource management for the nurse leader to promote a fiscally responsible health care environment.

### NSC 858. Nursing System Quality Mgmt. (3 Credits)

(3) A. Prerequisite: Admission to MSN program. Explore and analyze the role of the nurse leader as it relates to quality management and safety for system effectiveness and healthcare outcomes.

### NSC 860. Nursing AdminPracticum. (3 Credits)

(3) A. Prerequisite: NSC 854, 856 and 858 with a minimum grade of B. A synthesis of leadership, management, and public health nursing theory applied to the role of the nurse leader in the administration of health systems. Includes problem resolution and analysis of alternative approaches.

### NSC 862. Nursing Admin Internship. (3 Credits)

A. Prerequisite: NSC 850 and 852, each with a minimum grade of "B" and two hours of NSC 802. Internship allows the student to apply advanced knowledge and skills in implementing the role of a nurse leader in administration of population-focused health to improve health outcomes.

### NSC 870. Rural Health FNP I. (3 Credits)

A. Prerequisite: NSC 830, NSC 832, NSC 834, and NSC 840, each with a grade of B or better. Course provides theoretical and diagnostic knowledge necessary to confront problems relevant to the health care of individuals across the life span. Emphasis on health promotion, disease prevention and management of common health problems.

**NSC 872. Rural Health FNP II. (3 Credits)**

A. Prerequisites: NSC 870 with a minimum grade of B. Corequisite: Theoretical and diagnostic knowledge necessary to confront problems relevant to the health care of individuals across the life span. Emphasis on health promotion, disease prevention, and management of common health problems. Builds on NSC 870.

**NSC 874. Rural Health FNP III. (3 Credits)**

A. Prerequisite: NSC 872 with a minimum grade of C. Corequisite: NSC 800. Theoretical and diagnostic knowledge necessary to confront problems relevant to the health care of individuals across the life span. Emphasis on health promotion, disease prevention and management of common health problems. Builds on NSC 872.

**NSC 876. Rural Health FNP Internship. (6 Credits)**

A. Prerequisite: NSC 870, NSC 872, NSC 874, each with a minimum grade of "B", and eight hours of NSC 800. Prerequisite /Co requisite: NSC 842, with a minimum grade of "B". Course allows synthesis of theoretical and diagnostic knowledge in a concentrated rural primary care practicum. Emphasis on health promotion, disease prevention and management of common health problems in individuals and families across the lifespan.

**NSC 880. Rural PMHNP I. (3 Credits)**

A. Prerequisite: NSC 830, NSC 832, NSC 834, and NSC 840, each with a minimum grade of B. Corequisite: NSC 881. Theoretical and diagnostic knowledge necessary to diagnose and treat psychiatric disorders across the life span. Competencies in working with individuals are developed.

**NSC 881. Applied Psychopharmacology. (3 Credits)**

A. Prerequisite: NSC 830, NSC 832, and NSC 834, each with a minimum grade of B. Corequisite: NSC 880. Applies theoretical and diagnostic knowledge related to prescribing psychopharmacological treatment of psychiatric disorders across the life span.

**NSC 882. Rural PMHNP II. (3 Credits)**

A. Prerequisite: NSC 880 and 881, each with a minimum grade of B. Corequisite: NSC 800. Theoretical and diagnostic knowledge necessary to diagnose and treat psychiatric disorders across the life span. Competencies in working with families are developed.

**NSC 883. Rural PMHNP Child Adolescent. (3 Credits)**

A. Prerequisite: NSC 830, NSC 832, NSC 834 & NSC 881. Current Certification as an Adult PMHNP/CS. Applies theoretical and diagnostic knowledge related to treatment of psychiatric disorders in children and adolescents.

**NSC 884. Rural PMHNP III. (3 Credits)**

A. Prerequisite: NSC 882 with a minimum grade of "B". Theoretical and diagnostic knowledge necessary to diagnose and treat psychiatric orders across the life span. Group skills, community resources, and the context of professional practice are examined.

**NSC 886. Rural PMHNP Internship. (5 Credits)**

A. Prerequisite: NSC 884 with a minimum grade of "B" and seven hours of NSC 800. Prerequisite/Co requisite: NSC 842, with a minimum grade of B. Synthesis of theoretical and diagnostic knowledge to promote mental health and maintain mental health across the life span. Systematically examines opportunities for improving PMHNP practice.

**NSC 890. Synthesizing Evidence for ANP. (3 Credits)**

A. Prerequisite: NSC 840, with a minimum grade of "B". Critical appraisal and synthesis of nursing and inter-professional research as a foundation for evidence-based advanced nursing practice in diverse populations.

**NSC 892. Evidence-based Proj in ANP. (3 Credits)**

A. Prerequisite: NSC 890, with a minimum grade of B. Implementation of an evidence-based project to improve health or healthcare delivery for diverse populations.

**NSC 895. Independent Study in Nursing. (1-6 Credits)**

A. May be retaken under different subtopics to a cumulative maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**NSC 900. Seminar I: Role Transition. (1-3 Credits)**

A. Prerequisite: Admission to DNP program. Explore issues pertinent to role transition and role assimilation for the DNP graduate.

**NSC 901. Seminar II: DNP Project. (1-2 Credits)**

A. Prerequisite: NSC 990. Provides an opportunity for synthesis of evidence-based theoretical concepts to incorporate into practice.

**NSC 905. Analytical Methods for EBP. (3 Credits)**

A. Prerequisite: Admission to DNP Program. Description and analysis of quantitative data using statistical and graphical methods for purposes of evidence-based practice.

**NSC 938. Special Topics for DNP. (1-6 Credits)**

A. Prerequisite: Admissions to DNP Program. Selected topics will be offered as appropriate for enhancement of advanced nursing role. May be retaken under different topics for a maximum of six credit hours.

**NSC 940. Theoretical Appl for DNP. (3 Credits)**

A. Prerequisite: Admissions to DNP Program. Theoretical perspectives, integration of nursing science, and the interrelationships among theory, research, and evidence-based nursing practice will be explored, emphasizing strategies for knowledge and theory development, evaluation, and application.

**NSC 942. Healthcare Deliv. Informatics. (3 Credits)**

A. Prerequisite: Admission to DNP Program. Focuses on theoretical basis of information systems in healthcare, impact of informatics on clinical practice and administrative decision-making, and strategies to evaluate and improve use of information technology in health care.

**NSC 950. Health Policy. (3 Credits)**

A. Prerequisite: Admission to DNP Program. Analysis of the policy process in order to develop advanced nursing leadership skills for designing, implementing, and evaluating health policy.

**NSC 954. Organizational Leadership. (3 Credits)**

A. Prerequisite: Admission to DNP Program. Explores theoretical foundations of leadership with an organization systems perspective. Examine principles of organizational systems, quality improvement, dimensions of healthcare/ organizations, and human resource management.

**NSC 960. Mngmnt of Health Care Resource. (3 Credits)**

(4) A. Prerequisite: Admission to the DNP program. Examines healthcare resources and their relationship to clinical practice, to solve problems/ issues pertaining to healthcare delivery. Students are expected to have a basic understanding of economic and financial concepts utilized to examine these issues.

**NSC 990. Synthesizing Evidence for DNP. (3 Credits)**

A. Prerequisite: NSC 905 and NSC 942, each with a minimum grade of "B". Translate scientific nursing knowledge into complex interventions to improve practice and health outcomes.

**NSC 992. Implementation Methods for DNP. (3 Credits)**

A. Prerequisite: NSC 990 with a minimum grade of "B". Translate scientific multi-disciplinary knowledge into complex interventions to improve practice and health outcomes in the development of a proposal to enhance evidence-based practice.

**NSC 994. DNP Project. (3-9 Credits)**

A. Prerequisite: NSC 992, with a minimum grade of "B". Translate a body of evidence-based research in the implementation of a project to improve practice and health outcomes.

**NSC 995. Independent Study in Nursing. (1-6 Credits)**

A. Prerequisite: Admission to DNP Program. May be retaken under different subtopics to a cumulative maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## Doctor of Nursing Practice (D.N.P)

### General Information

The School of Nursing offers the Doctor of Nursing Practice program. The program is designed to allow nurses who possess a graduate degree in nursing to prepare for the highest level of nursing practice.

Graduates of the DNP program will have specific competencies derived from The Essentials of Doctoral Education for Advanced Nursing Practice (American Association of Colleges of Nursing, 2006) for which they will be prepared. The Doctor of Nursing Practice student learning outcomes include:

1. Develop, evaluate, translate, and integrate theory-based nursing and interdisciplinary knowledge in new practice approaches to enhance health and health care delivery.
2. Create and evaluate principles of organizational and systems theory to provide leadership in improving health outcomes and promoting excellence in practice.
3. Utilize analytic methods, information technology, and research methods to critically appraise evidence-based practice data to evaluate outcomes of practice, practice patterns, and health systems against national benchmarks, to improve health care outcomes.
4. Assimilate and process aggregate data, using information systems, informatics and technology, as well as evaluation and assessment tools, current research and outcome data, to translate this knowledge to improve or transform patient and health care systems.
5. Actively influence health policy that addresses health disparity, access, quality, and financing at institutional, local, state, federal, and international levels.
6. Employ effective communication and interprofessional collaboration to design, implement, and evaluate individual and system level interventions, to improve health and create change in health care delivery systems.
7. Implement clinical prevention and population health activities to improve the health of individuals and populations.

### Admission Requirements

Minimum requirements for admission to the DNP program include

1. a master's degree in nursing from a nationally accredited program,
2. Unencumbered RN license from an approved state,
3. a graduate GPA of at least 3.0 (4.0 scale).

Admission is competitive and limited to available space. In addition to the Graduate School application, applicants must also submit to the department a separate completed department application form, a resume or curriculum vitae, a short essay (500-700 words) describing the relationship between the applicant's professional goals and the DNP program, and at least 3 positive letters of recommendation. As a limited

number of applicants are accepted for admission, selection will be based on careful consideration of all information included in the admission application packet and the degree to which each candidate meets the requirements. Complete applications, which include all requested information, are given priority in the selection process. In order to be competitive, all material and documentation must be submitted by the deadline.

Please refer to the School of Nursing website at [nursing.eku.edu/doctor-nursing-practice](http://nursing.eku.edu/doctor-nursing-practice) (<http://nursing.eku.edu/doctor-nursing-practice/>) for specific information on the application process for admission and progression plans for study, or contact the department at (859) 622-7927 for information on the application process for admission.

### Progression Policy

To progress, students must complete all required course work with a grade of "B" or higher and must complete any pre-requisite courses before advancing to the next course. Refer to course descriptions in this Catalog for specifics. A student who does not satisfactorily progress in the program must be given permission by the DNP Admission/Readmission Committee to repeat a course and continue in the program.

### Program Requirements

CIP Code: 51.3818

Code	Title	Hours
<b>DNP Core Courses</b>		
NSC 905	Analytical Methods for EBP	3
NSC 940	Theoretical Appl for DNP	3
NSC 942	Healthcare Deliv. Informatics	3
NSC 950	Health Policy	3
NSC 954	Organizational Leadership	3
NSC 960	Mngmnt of Health Care Resource	3
NSC 990	Synthesizing Evidence for DNP	3
NSC 992	Implementation Methods for DNP	3
<b>Organizational Leadership</b>		
NSC 900	Seminar I: Role Transition	1-3
NSC 901	Seminar II: DNP Project	1-2
NSC 994	DNP Project	6-9
<b>Total Hours</b>		<b>32-38</b>

Required hours will be individually evaluated on a planned program of study for each student, depending on academic background and career goals.

### Exit Requirements

DNP Project (NSC 994 DNP Project) – Candidates are required to satisfactorily complete and present a DNP project before they are eligible to graduate from the program. Students must have documentation of a minimum of 1,000 total clinical hours completed beyond the BSN. Hours required to be completed at ECU will be assessed upon admission to the DNP Program and a plan of study developed accordingly.

## Family Nurse Practitioner, Post-Graduate Certificate

### General Information

The College of Health Sciences offers Post-Graduate Certificates in Rural Family Nurse Practitioner and Rural Psychiatric Mental Health Nurse Practitioner, for nurses who have completed a Master of Science in Nursing degree or higher and who wish to obtain a second nursing specialty. The number of credit hours required for completion varies by specialty. All MSN/DNP policies apply to the Post-MSN/Post-Graduate Certificate students.

### Admission Requirements

Minimum requirements for admission to the program include:

1. Admission to the Graduate School.
2. A master of science in nursing degree from a nationally-accredited program for Nursing Administration, or an MSN or DNP degree from a nationally accredited program for the Post-Graduate certificates.
3. Unencumbered RN license from an approved state. Admission is competitive and limited to available space. In addition to the above criteria, consideration is also given to the student's Professional Statement submitted with the Graduate School application and the three required professional references.

Priority is given to degree-seeking applications. Please refer to the School of Nursing website at <https://nursing.eku.edu/masters-degree-programs> (<https://nursing.eku.edu/masters-degree-programs/>) for specific information on the application process for admission and progression plans for study, or contact the department at (859) 622-1827 for information on the application process for admission.

### Program Requirements

CIP Code: 51.3805

Code	Title	Hours
<b>Nurse Practitioner Concentration Prerequisites</b>		
NSC 830	Advanced Pharmacology	
NSC 832	Advanced Health Assessment	
NSC 834	Advanced Pathophysiology	
<b>Certificate Requirements</b>		
NSC 870	Rural Health FNP I	3
NSC 872	Rural Health FNP II	3
NSC 874	Rural Health FNP III	3
NSC 876	Rural Health FNP Internship	6
NSC 800	Advanced Practice Role <sup>1</sup>	8
<b>Total Hours</b>		<b>23</b>

1

Concurrent enrollment with NSC 870 Rural Health FNP I, NSC 872 Rural Health FNP II, NSC 874 Rural Health FNP III

## Master of Science in Nursing with a Concentration in Rural Health Family Nurse Practitioner (M.S.N.)

### General Information

The School of Nursing offers the Master of Science in Nursing degree. The program is designed to allow nurses with a baccalaureate degree to prepare for rural health advanced or advanced practice roles. Master's degree concentrations available include Rural Health Family Nurse Practitioner and Rural Psychiatric Mental Health Nurse Practitioner. Graduates of the M.S.N. program will have specific competencies related to rural health nursing practice either as a Rural Health Family Nurse Practitioner or as a Rural Psychiatric Mental Health Nurse Practitioner. Advanced Nursing Practice Outcomes include:

1. Demonstrate the synthesis of expert knowledge for advanced nursing practice in diverse populations.
2. Evaluate nursing and interprofessional theory and evidence-based practice for their contributions to advanced nursing practice and professional role development.
3. Provide leadership in the appraisal and improvement of healthcare and healthcare delivery.
4. Use systematic methods to design, implement, and evaluate evidence-based advanced nursing practice.
5. Participate in organizational and political systems to influence healthcare and healthcare delivery.
6. Communicate, collaborate, and consult with clients, nurses, and other professionals to meet healthcare needs of individuals and populations.
7. Actively demonstrate the advanced nursing practice role.
8. Integrate ethical and legal principles in advanced nursing practice.

### Admission Requirements

In addition to meeting the requirements of the Graduate School, the minimum requirements for admission to the program include

1. a baccalaureate degree in nursing from a nationally accredited program,
2. RN license from an approved state,
3. an undergraduate GPA of at least 3.0 (4.0 scale) cumulative,
4. a three hour graduate or undergraduate course in statistics with a grade of "C" or higher.

Admission is competitive and limited to available space. In addition to the above criteria, consideration is also given to the applicants' professional work experience, the applicant's professional statement, and the three required professional references submitted with the Graduate School application.

Please refer to the School of Nursing website at <https://nursing.eku.edu/masters-degree-programs> (<https://nursing.eku.edu/masters-degree-programs/>) for specific information on the application process for admission and progression plans for study. For the Rural Health Family Nurse Practitioner Concentration contact 859-622-2517. For the Rural Psychiatric Mental Health Nurse Practitioner Concentration contact 859-622-7927.

## Progression Policy

To progress, students must complete all required course work with a grade of "B" or higher and must complete any prerequisite courses before advancing to the next course. Refer to the course descriptions in this *Catalog* for specifics. When a student is given permission to repeat a practicum course, the student must also enroll in the co-requisite hours of NSC 800 Advanced Practice Role.

## Program Requirements

CIP Code: 51.3801

Code	Title	Hours
<b>MSN Core Courses</b>		
NSC 840	Theoretical Foundation for EBC	3
NSC 842	Advanced Nsg. Practice Issues	3
NSC 890	Synthesizing Evidence for ANP	3
NSC 892	Evidence-based Proj in ANP	3
MPH 855	Principles of Epidemiology	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		32-34
Rural Health Family Nurse Practitioner		
Rural Psychiatric Mental Health Nurse Practitioner		
<b>MSN Exit Requirement</b>		
GRD 888B	MS Nursing Oral Comp Exam	0
<b>Total Hours</b>		<b>47-49</b>

## Comprehensive Examination

Candidates are required to pass an oral comprehensive examination (GRD 888B MS Nursing Oral Comp Exam) of their program of study.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
<i>Advanced Practice Core Courses</i>		
NSC 830	Advanced Pharmacology	3
NSC 832	Advanced Health Assessment	3
NSC 834	Advanced Pathophysiology	3
<i>Practicum Courses</i>		
NSC 870	Rural Health FNP I	3
NSC 872	Rural Health FNP II	3
NSC 874	Rural Health FNP III	3
NSC 876	Rural Health FNP Internship	6
<i>Clinical Requirement</i>		
NSC 800	Advanced Practice Role	8
<b>Total Hours</b>		<b>32</b>

# Master of Science in Nursing with a Concentration in Rural Psychiatric Mental Health Nurse Practitioner (M.S.N.)

## General Information

The School of Nursing offers the Master of Science in Nursing degree. The program is designed to allow nurses with a baccalaureate degree to prepare for rural health advanced or advanced practice roles. Master's degree concentrations available include Rural Health Family Nurse Practitioner and Rural Psychiatric Mental Health Nurse Practitioner. Graduates of the M.S.N. program will have specific competencies related to rural health nursing practice either as a Rural Health Family Nurse Practitioner or as a Rural Psychiatric Mental Health Nurse Practitioner. Advanced Nursing Practice Outcomes include:

1. Demonstrate the synthesis of expert knowledge for advanced nursing practice in diverse populations.
2. Evaluate nursing and interprofessional theory and evidence-based practice for their contributions to advanced nursing practice and professional role development.
3. Provide leadership in the appraisal and improvement of healthcare and healthcare delivery.
4. Use systematic methods to design, implement, and evaluate evidence-based advanced nursing practice.
5. Participate in organizational and political systems to influence healthcare and healthcare delivery.
6. Communicate, collaborate, and consult with clients, nurses, and other professionals to meet healthcare needs of individuals and populations.
7. Actively demonstrate the advanced nursing practice role.
8. Integrate ethical and legal principles in advanced nursing practice.

## Admission Requirements

In addition to meeting the requirements of the Graduate School, the minimum requirements for admission to the program include

1. a baccalaureate degree in nursing from a nationally accredited program,
2. RN license from an approved state,
3. an undergraduate GPA of at least 3.0 (4.0 scale) cumulative,
4. a three hour graduate or undergraduate course in statistics with a grade of "C" or higher.

Admission is competitive and limited to available space. In addition to the above criteria, consideration is also given to the applicants' professional work experience, the applicant's professional statement, and the three required professional references submitted with the Graduate School application.

Please refer to the School of Nursing website at <https://nursing.eku.edu/masters-degree-programs> (<https://nursing.eku.edu/masters-degree-programs/>) for specific information on the application process for admission and progression plans for study. For the Rural Health Family Nurse Practitioner Concentration contact 859-622-2517. For the Rural Psychiatric Mental Health Nurse Practitioner Concentration contact 859-622-7927.

## Progression Policy

To progress, students must complete all required course work with a grade of "B" or higher and must complete any prerequisite courses before advancing to the next course. Refer to the course descriptions in this Catalog for specifics. When a student is given permission to repeat a practicum course, the student must also enroll in the co-requisite hours of NSC 800 Advanced Practice Role.

## Program Requirements

CIP Code: 51.3801

Code	Title	Hours
<b>MSN Core Courses</b>		
NSC 840	Theoretical Foundation for EBC	3
NSC 842	Advanced Nsg. Practice Issues	3
NSC 890	Synthesizing Evidence for ANP	3
NSC 892	Evidence-based Proj in ANP	3
MPH 855	Principles of Epidemiology	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		32-34
Rural Health Family Nurse Practitioner		
Rural Psychiatric Mental Health Nurse Practitioner		
<b>MSN Exit Requirement</b>		
GRD 888B	MS Nursing Oral Comp Exam	0
<b>Total Hours</b>		<b>47-49</b>

## Comprehensive Examination

Candidates are required to pass an oral comprehensive examination (GRD 888B MS Nursing Oral Comp Exam) of their program of study.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
<i>Advanced Practice Core Courses</i>		
NSC 830	Advanced Pharmacology	3
NSC 832	Advanced Health Assessment	3
NSC 834	Advanced Pathophysiology	3
<i>Practicum Courses</i>		
NSC 880	Rural PMHNP I	3
NSC 881	Applied Psychopharmacology	3
NSC 882	Rural PMHNP II	3
NSC 884	Rural PMHNP III	3
NSC 886	Rural PMHNP Internship	5
<i>Clinical Requirement</i>		
NSC 800	Advanced Practice Role	8
<b>Total Hours</b>		<b>34</b>

## Department of Exercise and Sport Science

Dr. Eric Fuchs, Chair  
[www.ess.eku.edu](http://www.ess.eku.edu) (<http://www.ess.eku.edu>)  
 (859) 622-1889

## Mission

The mission of the Department of Exercise and Sport Science is to prepare outstanding exercise and sport science professionals and leaders who contribute to the success and vitality of their communities, the Commonwealth, and the world.

## Master's

- Athletic Training, Master of Science (M.S.) (p. 724)
- Exercise and Sport Science, Master of Science with a Concentration in Exercise and Wellness (M.S.) (p. 725)
- Exercise and Sport Science, Master of Science with a Concentration in Sports Administration (M.S.) (p. 726)

## Courses

### Athletic Training

#### ATR 802. Practicum II. (3 Credits)

A. Prerequisite: ATR 807 and 809. Provides students with the opportunity to apply clinical skills, especially related to orthopedic assessment and diagnosis. Curriculum competencies are practiced and assessed. Students complete clinical experiences, as assigned by preceptor.

#### ATR 803. Practicum III. (3 Credits)

A. Prerequisite: ATR 802. Provides students with the opportunity to apply basic clinical skills, especially related to treatment and therapy of injuries/pathologies. Curriculum competencies are practiced and assessed. Students complete a clinical experience as assigned by preceptor.

#### ATR 804. Practicum IV. (1 Credit)

A. Prerequisite: ATR 803. Provides students with the opportunity to apply advanced clinical skills. Curriculum competencies are practiced and assessed. Students complete clinical experiences, as assigned by preceptor from August 1 until the day before fall semester begins.

#### ATR 805. Field Experience I in AT. (9 Credits)

A. Prerequisite: ATR 803. Provides students with the opportunity to apply advanced clinical skills in a full immersion clinical experience. Curricular competencies are practiced and assessed. Students complete clinical experiences, as assigned by preceptor. Students are responsible for all costs associated with field experience (i.e. Transportation, housing, etc.).

#### ATR 806. Field Experience II in AT. (9 Credits)

A. Prerequisite: ATR 805. Provides students with the opportunity to apply advanced clinical skills in a full immersion clinical experience. Curricular competencies are practiced and assessed. Students complete clinical experiences, as assigned by preceptor. Students are responsible for all costs associated with field experience (i.e. Transportation, housing, etc.).

#### ATR 807. Foundations of Clin Pract i. (3 Credits)

A. Prerequisite: Admission to MS in AT. Course introduces foundational athletic training knowledge, behaviors, and clinical skills required to recognize and manage both traumatic and non-traumatic conditions in clinical practice using a systems approach.

#### ATR 808. Applied Palpation Anatomy Lab. (3 Credits)

A. Prerequisite: Admin to MS in AT. Provides hands-on opportunity to locate, explore, and compare anatomical structures through applied palpation in clinical lab. The course focuses on musculoskeletal, nerve, and vascular structures.

**ATR 809. Foundations of Clin Prat II. (3 Credits)**

A. Prerequisite: Admission to MS in AT. Course introduces foundational athletic training knowledge, behaviors, and clinical skills required to recognize and manage both traumatic and non-traumatic conditions in clinical practice using a systems approach. Continues addressing review of body systems not covered in ATR 807.

**ATR 810. Advanced Clinical Practice. (3 Credits)**

A. Prerequisite: ATR 803: Instructs students in advanced clinical skills relevant to athletic training. Classroom/lab sessions designed to provide specific instruction on curricular competencies as defined by accrediting body.

**ATR 812. Ortho Asmnt Lower Extremity. (3 Credits)**

A. Prerequisite: ATR 808. Co-requisite: ATR 812L. Assessment lower extremity/lumbar spine pathologies. Teaches proper differential diagnosis of LE/Lumbar spine pathologies. Students synthesize information from evaluations into differential diagnosis.

**ATR 812L. Ortho Asmnt Lowr Extremity Lab. (1 Credit)**

A. Prerequisite: Admin to MS in AT. Co-requisite: ATR 812. Students evaluate common injuries of the lower extremity/lumbar spine. Emphasis on practicing and demonstrating skills utilized during the evaluation process.

**ATR 813. Orthopedic Assess Up Extremity. (3 Credits)**

A. Prerequisite: ATR 808. Co-requisite: ATR 813L. Evaluation/differential diagnosis of injuries to the head, face, and upper extremity. Classroom/labs provide opportunities to master upper extremity differential diagnosis.

**ATR 813L. Orthopedic Assess Up Ext Lab. (1 Credit)**

A. Co-requisite: ATR 813. Properly evaluate common injuries of the upper extremity/cervical spine. Emphasis on practicing and demonstrating skills utilized during the evaluation process.

**ATR 815. Preventative Care in AT. (1 Credit)**

A. Prerequisite: Admission to MS in AT. Course develops skills in applying preventative care techniques used athletic training clinical practice. Preventative care includes application of taping and bracing techniques.

**ATR 830. Therapeutic Interventions I. (3 Credits)**

A. Prerequisite: ATR 812 and 813. Corequisite: 830L. Study of the scientific and foundational principles in rehabilitation. Course focuses on the integration of therapeutic modalities and exercise to improve patient function.

**ATR 830L. Therapeutic Intervent I Lab. (1 Credit)**

A. Corequisite: ATR 830. Application and integration of therapeutic modalities and exercise techniques to improve patient function.

**ATR 835. Therapeutic Interventions II. (3 Credits)**

A. Prerequisite: ATR 812 and 813. Corequisite: 835L. Study of the application of scientific and foundational principles of rehabilitation to region specific pathologies. Course focuses on the integration of therapeutic modalities and exercise in both conservative and surgical interventions addressing acute and chronic conditions.

**ATR 835L. Therapeutic Intervent II Lab. (1 Credit)**

A. Corequisite: ATR 835. Application and integration of therapeutic modalities and exercise techniques to improve patient function. Course focuses on application of techniques to address both conservative and surgical interventions for specific acute and chronic pathologies.

**ATR 842. Organization and Admin of AT. (3 Credits)**

A. Prerequisite: ATR 800. The course covers billing practices, legal liability, fiscal management, facilities operations and design, personnel supervision and hiring, public relations and organizational structures in health care organizations and systems.

**ATR 843. Seminar in AT. (2 Credits)**

A. Prerequisite ATR 830 and 835: Integration and applied life skills needed as a professional AT. Students develop comprehensive review strategy for BOC exam, explore contemporary issues and changing practice paradigms in AT.

**Exercise and Sports Science****ESS 717. Bioenergetics & Phy Activity. (3 Credits)**

(3) A. Formerly PHE 762. Study of bioenergetics processes and the relationship to energy storage, transformation and utilization in biological systems. Study of energy metabolism during different physiological conditions and the applications to clinical exercise science and sport.

**ESS 720. Advanced Strength and Conditio. (3 Credits)**

I, II This course is an advanced education in the field of strength and conditioning, principles, organization, and techniques. Higher level understanding of human physiology will be gained with specific emphasis on optimizing adaptation response.

**ESS 730. Sports Communications. (3 Credits)**

I. Formerly PHE 730. Students will explore and apply communication theories to the sport and exercise industry. Emphasis will be on examination of public and media relations with a special focus on organizational communication to external and internal publics.

**ESS 762. Adapted Physical Activity. (3 Credits)**

I, II. Formerly PHE 762. Principles and practices of adapted physical education emphasizing the physical activity needs of people with disabilities. Emphasis will be placed on the importance of physical activity, recent legislation, assessments, individual education plans, and adapting activities.

**ESS 775. Tests & Measurements. (3 Credits)**

I, II. Formerly PHE 775. Administration and scoring of tests, evaluation and use of results obtained.

**ESS 790. Special Topics in Ex/Sport Sci. (1-4 Credits)**

A. Formerly PHE 790. Study of various topics in physical education and sport selected to meet special student needs and interests. May be retaken to a maximum of six hours with advisor's approval provided subtitle is different.

**ESS 800. Research Methods. (3 Credits)**

I, II. Formerly PHE 800. Application of research methods in exercise and sport science with emphasis on consumption of research, methods of research, and tools and instrumentation for research.

**ESS 810. Financial Aspects of Sport. (3 Credits)**

A. Formerly PHE 810. Study of the principles, practices, and theories associated with finance planning and management of enterprises engaged in the provision of sport related services and/or products. Topics include budget planning and preparation, preparing and analyzing financial statements, revenue sources, money management, preparation of business plans and feasibility studies.

**ESS 812. Lifetime Fitness and Wellness. (3 Credits)**

A. Formerly PHE 812. Philosophical and factual basis for lifetime fitness for professional fitness leaders. Problem-solving and decision-making approaches to establish creative and effective programs.

**ESS 814. Sport Mkt/Prom/Fund Raising. (3 Credits)**

I, A. Formerly PHE 814. Marketing, promotion, and fund raising within the context of amateur and professional sport. An overview of sport business industry; theory; pricing, distribution, and promotional technique of sport; media relations; endorsement and sponsorships; and licensing.

**ESS 821. Physiological Bases of Phy Fit. (3 Credits)**

II. Formerly PHE 821. Effects of chronic exercise on neuromuscular, cardiovascular, respiratory, and metabolic function.

**ESS 822. Sociology of Sport. (3 Credits)**

A. Formerly PHE 822. Meaning of sport in contemporary societies; relationship of selected social factors on development of social groups and attitudes in varying levels of sport; structure and function of sport in simple and complex social institutions.

**ESS 823. Psychology of Sport & Exercise. (3 Credits)**

II. Formerly PHE 823. This course examines the psychological basis of organization and team dynamics of performance in sport and exercise behavior through an exploration of psychological theories and their applications to real world experiences.

**ESS 825. Policy and Governance of Sport. (3 Credits)**

II. Formerly PHE 825. An in-depth study of major sport governing agencies including organizational structure, constitutions, policies, procedures, and membership requirements of sport agencies at the state, national, and international levels.

**ESS 835. Legal Issues in Sports Science. (3 Credits)**

I. Formerly PHE 835. Principles and concepts of exercise and sport in contemporary society with primary emphasis on legal issues that relate to the exercise industry and amateur sport.

**ESS 839. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839A. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839A. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839B. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839B. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839C. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839C. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839D. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839A. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839E. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839E. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839F. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839F. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 848. History/Philosophy Ex/Sport Sc. (3 Credits)**

A. Formerly PHE 848. A study of organized physical activity of people in significant cultural epochs in history and the underlying philosophy that influenced these activities and the influence on modern exercise and sport science methods and techniques.

**ESS 850. Event and Facility Management. (3 Credits)**

I. Formerly PHE 850. A. Focus on fundamentals of event and facility management: organizing and operating athletic events, planning and modifying facilities associated with athletic, physical education, fitness, and recreation programs.

**ESS 869. Org Behavior & Leadership in ESS. (3 Credits)**

II. Formerly PHE 869. Students will study the basic concepts, theories, organization and administration including financial management as applied to exercise and sport science.

**ESS 870. Internship Sports Administration. (1-6 Credits)**

A. Formerly PHE 870. Supervised experience in selected aspects of sports in a sports administration setting. May be retaken to a maximum of six hours.

**ESS 871. Internship: Exercise/Wellness. (1-6 Credits)**

A. Formerly PHE 871. Supervised experiences of selected aspects of wellness programming.

**ESS 875. Seminar in Exercise and Sport. (3 Credits)**

A. Formerly PHE 875. Research and discussion of critical questions in physical education; topics to be studied will vary according to the concerns of seminar students.

**ESS 885. Independent Study. (1-3 Credits)**

A. Formerly PHE 885. Designed for graduate students who have demonstrated the ability to conduct individual research relating to physical education. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of three hours.

**ESS 891. Issues in Exercise/ Sport Sci. (3 Credits)**

A. Identification of critical issues arising from current problems; exploration of points of view and possible solutions.

**ESS 896. Sports Administration Capstone. (3 Credits)**

A. Formerly PHE 896. Comprehensive integration and application of program learning outcomes. The student will analyze and synthesize academic knowledge and practical experience as they relate to issues and problems in sports administration.

**ESS 897. Thesis. (3-6 Credits)**

A. Formerly PHE 897. For students preparing a thesis in partial fulfillment of the requirements for the master's degree programs. May be retaken to a maximum of six hours.

## Athletic Training, Master of Science (M.S.)

Dr. Matthew Sabin, Director

www.athletictraining.eku.edu (<http://www.athletictraining.eku.edu>)  
(859) 622-8149

### General Information

#### MS in Athletic Training Description

Eastern Kentucky University's Master of Science in Athletic Training (MS in AT) Program is an accredited, professional program that prepares students to sit for the Board of Certification (BOC) examination and certification as an athletic trainer. The program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The program is a full-time, 2-year program (including summers) that provides athletic training students with a balance of skill and theory integration during an effective blend of evidence-based didactic experiences and clinical learning opportunities. As a graduate-level academic program, the integration of research evidence into didactic and clinical instruction is a defining characteristic of the EKU AT Program, teaching students how to critically think while making clinical decisions as a healthcare professional. Clinical education experiences are integrated through the entire curriculum and culminate with multiple full-immersion, clinical experiences that guide students towards autonomous practice.

Students interested in applying to the program should check MS in AT's website for the most current information regarding the application requirements and process, curriculum, latest news and other program information.

#### Mission Statement

The EKU MS in AT Program exists to educate each student about the theoretical and clinical skills necessary to work as part of an interprofessional, patient-centered healthcare team to prevent, evaluate, diagnose, and treat all aspects of injury and illness.

#### Program Goals and Objectives

Specific program and student learning outcomes for the EKU MS in AT Program can be found on the program's website ([www.athletictraining.eku.edu](http://www.athletictraining.eku.edu) (<http://www.athletictraining.eku.edu>)).

### Admission Procedures and Requirements

#### Admission Process

Students may apply to EKU's MS in AT Program in the application cycle immediately before completion of an undergraduate degree or as part of EKU's 3+2 B.S. Exercise and Sport Science to M.S. in Athletic Training 3+2 accelerated dual degree program. Application to EKU's MS in AT Program will occur through the Athletic Training Centralized Application System (ATCAS) ([www.caate.net/apply-now/](http://www.caate.net/apply-now/)),

(<http://www.caate.net/apply-now/>), provided by the CAATE. The current deadlines for application submission, admissions requirements and application process are outlined on the program website ([www.athletictraining.eku.edu](http://www.athletictraining.eku.edu) (<http://www.athletictraining.eku.edu>)). Admissions decisions will be made based on the ATCAS application, which demonstrates completion of the requirements, and accepted students will be required to apply to EKU's Graduate School and complete specific post-acceptance requirements which are outlined on the program's website ([www.athletictraining.eku.edu](http://www.athletictraining.eku.edu) (<http://www.athletictraining.eku.edu>)).

Though not required, it is recommended that students applying to the program visit campus and either attend 1 of 2 scheduled open houses or schedule an appointment with one of the AT faculty for a campus tour and to discuss the program. Dates of upcoming open houses will be listed on the website.

#### Admission Requirements

Students applying for acceptance in the program through ATCAS must demonstrate the following:

1. Submission of the ATCAS application
2. Completion of the following prerequisite courses:
  - Basic Anatomy (3) and Human Physiology (3) or A & P I (3hrs) and A & P II (3hrs)
  - Exercise Physiology (3hrs)
  - Biomechanics or Kinesiology (3hrs)
  - Biology
  - Chemistry
  - Physics
3. Maintain an undergraduate GPA of 2.5 or better, a minimum prerequisite GPA of 2.75 and a minimal grade of "C" in all prerequisite courses
4. Completion of a minimum of 50 hours of direct observation with an athletic trainer within 2 years prior to application. Hours under a physical therapist do not count unless the individual is dual-credentialed and the hours were obtained in a traditional athletic training facility or field setting. Verification must be submitted on EKU's MS in AT Directed Observation Verification Form found in ATCAS or on the program's website ([www.athletictraining.eku.edu](http://www.athletictraining.eku.edu) (<http://www.athletictraining.eku.edu>)).

Students applying for acceptance in the program through EKU's 3+2 B.S. Exercise and Sport Science to M.S. in Athletic Training 3+2 accelerated dual degree program must also apply through ATCAS. All undergraduate requirements, except the total number of required hours, must be met prior to enrollment. Students must complete the application, all pre-requisite courses, and the required observation hours, however, they must demonstrate an overall undergraduate GPA equal to or greater than a 3.0 in accordance with Graduate School policy. For additional information regarding admission criteria and process for EKU's 3+2 B.S. Exercise and Sport Science to M.S. in Athletic Training 3+2 accelerated dual degree program, please see EKU's Undergraduate Catalog and/or the program's website ([www.athletictraining.eku.edu](http://www.athletictraining.eku.edu) (<http://www.athletictraining.eku.edu>)).

#### Post-Acceptance Requirements

A description of post-acceptance requirements as well as the MS in AT Program's policies and procedures can be found in the MS in AT

Program Handbook and website ([www.athletictraining.eku.edu](http://www.athletictraining.eku.edu) (<http://www.athletictraining.eku.edu>)).

## Program Requirements

CIP Code: 51.0913

Code	Title	Hours
<b>MS in AT Program Requirements</b>		
<i>ATR Core Courses</i>		
ATR 802	Practicum II	3
ATR 803	Practicum III	3
ATR 804	Practicum IV	1
ATR 807	Foundations of Clin Pract I	3
ATR 808	Applied Palpation Anatomy Lab	3
ATR 809	Foundations of Clin Prat II	3
ATR 810	Advanced Clinical Practice	3
ATR 812	Ortho Asmnt Lower Extremity	3
ATR 812L	Ortho Asmnt Lowr Extremity Lab	1
ATR 813	Orthopedic Assess Up Extremity	3
ATR 813L	Orthopedic Assess Up Ext Lab	1
ATR 815	Preventative Care in AT	1
ATR 830	Therapeutic Interventions I	3
ATR 830L	Therapeutic Intervent I Lab	1
ATR 835	Therapeutic Interventions II	3
ATR 835L	Therapeutic Intervent II Lab	1
ATR 842	Organization and Admin of AT	3
ATR 843	Seminar in AT	2
<b>Field Experience – Internship – Capstone Course</b>		
ATR 805	Field Experience I in AT	9
ATR 806	Field Experience II in AT	9
<b>Total Hours</b>		<b>59</b>

## Exit Requirements

Completion of Field Experience Report & Presentation and registering for and attempting the Board of Certification Exam

## Exercise and Sport Science, Master of Science with a Concentration in Exercise and Wellness (M.S.)

Dr. Heather Adams, Graduate Coordinator/Advisor  
[www.ess.eku.edu](http://www.ess.eku.edu) (<http://www.ess.eku.edu>)  
 (859) 622- 1898

## General Information

The Department of Exercise and Sport Science offers the Master of Science degree in Exercise and Sport Science with two concentrations: Exercise and Wellness, and Sports Administration. The concentration in Exercise and Wellness is designed for persons interested in studying the art and science of human movement. The Sports Administration concentration is designed for the prospective sports administrator in both school and non-school settings. All concentrations afford opportunity for in-depth study and research for purposes of advanced graduate work. The Department of Exercise and Sport Science also provides specialized courses used by the College of Education for Master

of Arts in Education degree programs and certification programs leading to Rank II and Rank I, Physical Education. The Master of Arts in Education degree in Physical Education, the sixth year non-degree program, and the fifth year non-degree program in physical education are supported by the Department of Exercise and Sport Science and can be found in the College of Education section of this *Catalog*.

## Admission Requirements

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Additional requirements established by the program are as follows:

1. Bachelor's degree in a related field
2. Minimum 2.5 undergraduate GPA
3. Two letters of reference uploaded directly to the ECU Graduate School application.

Applicants who do not meet the Graduate School's GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 147 on the Verbal and Quantitative sections and an Analytical Writing score of 3.5.

Admission into the Master of Science degree program in Exercise and Sport Science requires demonstration of adequate undergraduate preparation in a field related to graduate study in Exercise and Sport Science. Adequate preparation may be demonstrated in one of two ways:

1. Completion of a baccalaureate degree program with a major or minor or equivalent in physical education/exercise sport science or similarly named major or related discipline. Transcripts serve as adequate documentation for admission.
2. Submission of a professional portfolio, which includes a combination of relevant academic and experiential preparation. Presentation of a professional portfolio of work experiences serves as documentation for admission consideration. Portfolio materials must document experiences and may include assessments by supervisors or other valid assessment reports.

**Note:** Students must submit relevant documents with their original application for admission to the Graduate School.

## Program Requirements

CIP Code: 31.0505

### Probation and Progress in the Program

If, in any semester of study, a student's graduate grade point average falls below 3.0 for all courses taken after admission to the program, the student will automatically be on academic probation. The student will be dismissed from the program following any second semester with a cumulative GPA below 3.0. A student in the program is allowed to earn no more than one "C" and no "D"s or "F"s in courses taken after admission to the program.

Code	Title	Hours
<b>Core Courses</b>		
ESS 800	Research Methods	3
ESS 823	Psychology of Sport & Exercise	3
ESS 835	Legal Issues in Sports Science	3
ESS 869	Org Behavior & Leadrshp in ESS	3

ESS 875	Seminar in Exercise and Sport	3
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**Concentrations**

Students must select one of the following Concentrations:	15-18
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Exercise and Wellness
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Sports Administration
-----------------------

<b>Total Hours</b>	<b>30-33</b>
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**Note:** For information on the Master of Arts in Education Degree in Physical Education, see College of Education.

**Concentration**

Code	Title	Hours
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**Concentration Courses***Required Courses*

ESS 717	Bioenergetics & Phy Activity	3
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ESS 812	Lifetime Fitness and Wellness	3
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ESS 821	Physiological Bases of Phy Fit	3
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*Supporting Course Requirements*

Choose from 0-3 hours of the following: (non-thesis students must take three hours)	0-3
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ESS 720	Advanced Strength and Conditio
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ESS 762	Adapted Physical Activity
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ESS 775	Tests & Measurements
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ESS 790	Special Topics in Ex/Sport Sci
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ESS 822	Sociology of Sport
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700 and/or 800 Level course with prior departmental approval from non-ESS graduate departments

*Exit Requirements*

ESS 871	Internship: Exercise/Wellness	3-6
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or ESS 897	Thesis
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Choose from one of the following:	0
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GRD 888D	MS Exer and Sport Oral Defense (non-thesis)
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GRD 887B	MS Exercise and Sport Science Written Comprehensive Exam (thesis students)
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<b>Total Hours</b>	<b>12-18</b>
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A maximum of nine hours of 700 level course works is allowed.

**Comprehensive Examination**

(GRD 887B MS Exercise and Sport Science Written Comprehensive Exam or GRD 888D MS Exer and Sport Oral Defense)

Candidates in Exercise and Wellness will be required to successfully complete a project, with a summary and oral presentation for fulfillment of exit requirements.

**Note:** The comprehensive exam exit requirement for students who successfully complete ESS 897 Thesis the written comprehensive exam is waived. However, the student must enroll in GRD 887B MS Exercise and Sport Science Written Comprehensive Exam for exit requirement. The score of Satisfactory or Unsatisfactory will be assigned according to the thesis defense outcome.

## Exercise and Sport Science, Master of Science with a Concentration in Sports Administration (M.S.)

Dr. Heather Adams, Graduate Coordinator/Advisor  
[www.ess.eku.edu](http://www.ess.eku.edu) (<http://www.ess.eku.edu>)  
 (859) 622- 1898

**General Information**

The Department of Exercise and Sport Science offers the Master of Science degree in Exercise and Sport Science with two concentrations: Exercise and Wellness, and Sports Administration. The concentration in Exercise and Wellness is designed for persons interested in studying the art and science of human movement. The Sports Administration concentration is designed for the prospective sports administrator in both school and non-school settings. All concentrations afford opportunity for in-depth study and research for purposes of advanced graduate work. The Department of Exercise and Sport Science also provides specialized courses used by the College of Education for Master of Arts in Education degree programs and certification programs leading to Rank II and Rank I, Physical Education. The Master of Arts in Education degree in Physical Education, the sixth year non-degree program, and the fifth year non-degree program in physical education are supported by the Department of Exercise and Sport Science and can be found in the College of Education section of this *Catalog*.

**Admission Requirements**

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Additional requirements established by the program are as follows:

1. Bachelor's degree in a related field
2. Minimum 2.5 undergraduate GPA
3. Two letters of reference uploaded directly to the EKU Graduate School application.

Applicants who do not meet the Graduate School's GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 147 on the Verbal and Quantitative sections and an Analytical Writing score of 3.5.

Admission into the Master of Science degree program in Exercise and Sport Science requires demonstration of adequate undergraduate preparation in a field related to graduate study in Exercise and Sport Science. Adequate preparation may be demonstrated in one of two ways:

1. Completion of a baccalaureate degree program with a major or minor or equivalent in physical education/exercise sport science or similarly named major or related discipline. Transcripts serve as adequate documentation for admission.
2. Submission of a professional portfolio, which includes a combination of relevant academic and experiential preparation. Presentation of a professional portfolio of work experiences serves as documentation for admission consideration. Portfolio materials must document experiences and may include assessments by supervisors or other valid assessment reports.

**Note:** Students must submit relevant documents with their original application for admission to the Graduate School.

## Program Requirements

CIP Code: 31.0505

### Probation and Progress in the Program

If, in any semester of study, a student's graduate grade point average falls below 3.0 for all courses taken after admission to the program, the student will automatically be on academic probation. The student will be dismissed from the program following any second semester with a cumulative GPA below 3.0. A student in the program is allowed to earn no more than one "C" and no "D"s or "F"s in courses taken after admission to the program.

Code	Title	Hours
<b>Core Courses</b>		
ESS 800	Research Methods	3
ESS 823	Psychology of Sport & Exercise	3
ESS 835	Legal Issues in Sports Science	3
ESS 869	Org Behavior & Leadrshp in ESS	3
ESS 875	Seminar in Exercise and Sport	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		15-18
Exercise and Wellness		
Sports Administration		
<b>Total Hours</b>		<b>30-33</b>

**Note:** For information on the Master of Arts in Education Degree in Physical Education, see College of Education.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
<i>Required Courses</i>		
ESS 814	Sport Mkt/Prom/Fund Raising	3
ESS 896	Sports Administration Capstone (B or higher grade)	3
<i>Supporting Course Requirements</i>		
Choose from six hours of the following:		6
ESS 730	Sports Communications	
ESS 810	Financial Aspects of Sport	
ESS 822	Sociology of Sport	
ESS 825	Policy and Governance of Sport	
ESS 850	Event and Facility Management	
700 and/or 800 Level course with prior departmental approval from non-ESS graduate departments		
<i>Exit Requirements</i>		
ESS 870	Internship Sports Administrati	3
<b>Total Hours</b>		<b>15</b>

A maximum of nine hours of 700 level course works is allowed.

### Sports Administration Capstone Course

Candidates in Sports Administration Concentration shall perform satisfactorily (B or higher grade) in ESS 896 Sports Administration Capstone.

## Department of Environmental Health Science

Dr. Ismail El-Amouri

Dr. Gary Brown, Graduate Coordinator/Advisor

[www.health.eku.edu/ehs/](http://www.health.eku.edu/ehs/) (<http://www.health.eku.edu/ehs/>)

[www.mph.eku.edu](http://www.mph.eku.edu) (<http://www.mph.eku.edu>)

(859) 622-3078

The Department of Environmental Health Science is one of two departments that participate in the Master of Public Health (MPH) program. The department houses the MPH: Environmental/Occupational Health & Sustainability Concentration. The program is tailored to meet the needs of the individuals working in or planning to work in a public health profession. Information and requirements for the MPH concentrations in Environmental/Occupational Health & Sustainability can be found in the Master of Public Health section of this Catalog.

### Mission

The mission for the Department of Environmental Health Science is to provide national leadership and high quality graduates – both undergraduate and graduate – in Environmental Health for the identification and control of biological, chemical, nuclear, and physical threats to the health of individuals, communities, and industry.

### Certificate

- Industrial Hygiene, Graduate Certificate (p. 728)

### Courses

#### EHS 710. Radiological Health & Safety. (3 Credits)

A. Provides the student with the principles of health effects from ionizing radiation, including radiation sources, detection, measurement, control, and safety devices. Student will be able to identify, evaluate and control radiation in the work environment; implement a radiation monitoring program; establish emergency plans for actions to be taken in event of radiological accident; develop risk assessment and communication program. Credit will not be awarded to students who have received credit for EHS 510.

#### EHS 730. Emerging and Re- Infect Diseas. (3 Credits)

I, II. The student will acquire an understanding of the principles, biology, identification, evaluation, and control of vector borne diseases and other emerging/re-emerging diseases of public health concern.

#### EHS 839. Appl Learning in Env Hlth Sci. (0.5-6 Credits)

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839A. Co-op in Environmental Health. (0.5-6 Credits)****EHS 839B. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839C. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839D. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839E. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839F. Appl Learning in Env Hlth Sci. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 840. Total Worker Health. (3 Credits)**

A. A study of the impact of the work place on worker's health and the control of causative factors of disease.

**EHS 841. Occ Health Exposure Assessment. (3 Credits)**

A. Identify primary sources of potential chemical, physical and biological agents, identify techniques for assessing the risk of worker exposures and understand health impacts of occupational exposures to workers. (KYU and WEB course).

**EHS 855. Global Envir Crisis Management. (3 Credits)**

A. This course will provide students with environmental health principles required to protect the global environmental health of a community in times of emergency/disaster.

**EHS 860. Air Quality Assessment. (3 Credits)**

A. A study of health impacts of air pollution from both outdoor and indoor sources. The course will also provide information about methods of reduction, control, and elimination of air pollution.

**EHS 863. Field Experience in Env. Hea. (1-6 Credits)**

A. Cross listed with EHS 839. Supervised and directed field experience at official agencies at any level of government (state, local or national) or with private industry. The course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 839.

**EHS 865. Environmental Toxicology. (3 Credits)**

A. Toxicology, the principles, concepts and thinking that are its foundation. The mechanisms by which the substances enter the cells of the body, the physiological processes, the target organs, classes of toxic substances, and potential exposures.

**EHS 875. Principles of Ventilation. (3 Credits)**

A. Provides the student with the principles of ventilation including: design of fans, cleaners duct sizing: calculations, inspections, balancing the system, and overall maintenance. This course deals with use of ventilation to reduce or eliminate occupational exposures in the workplace.

**EHS 880. Food/Waterborne Sanitation. (3 Credits)**

A. The management of safety and disease hazards inherent in administering community programs of food hygiene, water supply, and wastewater treatment.

**EHS 885. Crisis Mgmt, Risk Com/Asmt. (3 Credits)**

A. Provides the student with the principles of Crisis Management and Risk Communication/Assessment by becoming familiar with laws that mandate risk communication, types, and approaches to risk communication, effective risk communication, importance of crisis management/communication, process of hazard risk assessment, and benefits of development and implementation of an emergency response program.

**EHS 890. Grad Project in Envrnmntl Hlth. (1-3 Credits)**

A. Research into a special topic in Environmental Health. Student must have approval of course faculty.

## Industrial Hygiene, Graduate Certificate

### General Information

The College of Health Sciences through the Master of Public Health in Environmental/Occupational Health & Sustainability offers a Master's level University Certificate in Industrial Hygiene. The Certificate program is designed for both degree-seeking and Certificate-seeking students. The number of credit hours required for completion is 18 hours of which 6 hours can be used as electives in the MPH Environmental/Occupational Health & Sustainability.

### Admission Requirements

Minimum requirements for admission include:

1. Admission to the Graduate School. A Bachelor of Science degree from a nationally-accredited program
2. A minimum of 12 hours of biology and/or chemistry

### Program Requirements

CIP 51.2206

Code	Title	Hours
<b>Certificate Requirements</b>		
EHS 710	Radiological Health & Safety	3
EHS 840	Total Worker Health	3
EHS 841	Occ Health Exposure Assessment	3
EHS 865	Environmental Toxicology	3
EHS 875	Principles of Ventilation	3

EHS 885

Crisis Mgmt, Risk Com/Asmt

3

Total Hours

18

## Department of Health Promotion and Administration

Dr. Michelyn Bhandari, Interim Chair  
(859) 622-1145  
Dizney 117

The Department of Health Promotion and Administration is one of two departments that participate in the Master of Public Health (MPH) program. The department houses the MPH: Health Promotion concentration. The program is tailored to meet the needs of individuals working in or planning to work in a public health profession. Information and requirements for the MPH concentration in Health Promotion can be found in the Master of Public Health Section of this Catalog.

The Department of Health Promotion and Administration offers course work in support of the Master of Arts in Education degree concentration. The concentration in School Health Education is designed for certified public school teachers who wish to pursue graduate work in health education. The requirements for degree may be found in the College of Education section of this Catalog.

The Department of Health Promotion and Administration provides specialized courses in conjunction with the College of Education leading to the degree Master of Arts in Education with concentrations in School Health. Rank II and Rank I certifications are also supported by departmental curricular offerings.

### Mission Statement

The mission of the Department of Health Promotion and Administration is to prepare individuals to serve the global community through successful careers in health care and public health.

### Master's

- Master of Public Health with a Concentration in Environmental/Occupational Health & Sustainability (offered by the Department of Environmental Health Science) (M.P.H.) (p. 729)
- Master of Public Health with a Concentration in Health Promotion (offered by the Department of Health Promotion & Administration) (M.P.H.) (p. 731)

### Courses

#### MPH 800. Env. Health Research Process. (3 Credits)

A. Formerly EHS 800. Cross-listed with ESS 800. Provides the student with an in-depth exploration of the public health/environmental health paradigm using instruction and hands on experience in the application of quantitative and qualitative analysis in the public and environmental health arena. Credit will not be awarded to students who have credit for ESS 800 or EHS 800.

#### MPH 810. Human Behavior Change. (3 Credits)

A. Formerly HEA 810. This course examines selected theories and models of health behavior relevant to health promotion in individuals and communities. Students will analyze biological, psychological, sociological, and environmental influences on behavior, and evaluate strategies for health promotion.

#### MPH 816. Public Health Org and Admin. (3 Credits)

A. Formerly HEA 816. In-depth exploration of the myriad of forces impacting public health organization and administration at local, state, and national level; the relationship between legislative action, effectiveness of public health efforts, and future of public health.

#### MPH 825. Public Health Planning. (3 Credits)

A. Cross-listed as HEA 825. The study of the planning tools required for the administration and implementation of public health programs. Credit will not be awarded to students who have credit for HEA 825.

#### MPH 830. Biostatistics in Health Sci. (3 Credits)

A. Formerly HEA 830. This course is an introduction to basic concepts of statistics as applied to public health. Major topics to be covered include descriptive statistics, theoretical distributions, probability, estimation, hypothesis testing, correlation, analysis of variance, and regression.

#### MPH 835. Survey of PH Statistical Analy. (3 Credits)

A. Prerequisite: MPH 830 or departmental approval. Formerly EHS 835. A survey course of the commonly used public health statistical programs for analysis of data, such as SPSS, SAS, Minitab, and Stata. Emphasis placed on applying statistical analysis using public health data.

#### MPH 840. Rsrch Mthds in Public Health. (3 Credits)

II. Emphasis will be on identifying a public health research problem, constructing hypotheses, selecting a research design and statistical analyses, and interpreting findings of the study.

#### MPH 850. Intro to Envir. Health Science. (3 Credits)

A. Formerly EHS 850. Study of the effects of the environment on personal and public health related to water and waste water treatment, air pollution, food hygiene, disease vectors, waste disposal, radiation, noise, institutions, etc. as they link to chronic and communicable diseases.

#### MPH 855. Principles of Epidemiology. (3 Credits)

A. Formerly HEA 855. A study of the distribution and determinants of disease and injury. Research methodologies for human research and disease surveillance techniques will be emphasized.

#### MPH 895. Public Health Capstone. (1 Credit)

II. This capstone course will allow students the opportunity to integrate and apply competencies acquired through the MPH program to problems likely to be encountered in public health practice. The course is designed to partially meet the integrated learning experience requirement for students in the program.

## Master of Public Health with a Concentration in Environmental/Occupational Health & Sustainability (offered by the Department of Environmental Health Science) (M.P.H.)

Dr. Michelyn Bhandari, Interim MPH Director  
www.mph.eku.edu (<http://www.mph.eku.edu>)  
859-622-1145

### General Information

The College of Health Sciences at Eastern Kentucky University offers a Master of Public Health (MPH) degree with concentrations in Health Promotion, and Environmental/Occupational Health & Sustainability. The two participating departments include the Department of Environmental

Health Science, and the Department of Health Promotion and Administration. The program is tailored to meet the needs of individuals working in or planning to work in a public health profession.

## Mission

The mission of the public health programs is to prepare culturally competent, skilled public health practitioners that are engaged in community-focused service and public health scholarship, for the commonwealth and beyond.

## Program Goal

To achieve its mission, the MPH Program prepares professionals for broad-based practice in public health, grounded in foundational public health knowledge and foundational competencies with specialized knowledge, and expertise in a selected public health discipline.

## Education Objectives

Students who complete the MPH degree will be able to:

1. Contribute to the public health profession through sound professional public health attitudes, values, concepts and ethical practices.
2. Recognize and facilitate diversity of thought, culture, gender, and ethnicity through inclusiveness, communication and collaboration.
3. Participate in professional development, scholarship, service, and interdisciplinary educational activities that contribute to public health.
4. Integrate and apply knowledge and skills (competencies) within the traditional core public health areas of knowledge (behavioral sciences, biostatistics, epidemiology, environmental health science, and public health administration) as well as crosscutting and emerging public health areas.
5. Demonstrate advanced knowledge and skills necessary for specialized roles within public health specific to health promotion and environmental occupational health and sustainability.

## Admission Requirements

Clear admission to the MPH program requires a baccalaureate degree from an accredited institution. Applicants with a cumulative undergraduate grade point average (GPA) of 3.0 or higher – or – 3.25 in their last 60 hours of undergraduate work meet the minimum requirements for eligibility for full-admission consideration. Applicants with a cumulative undergraduate degree GPA of 2.5 or higher, but do not meet the requirements for full-admission consideration, are eligible for provisional admission consideration. Students with provisional admission based upon GPA must maintain a cumulative graduate GPA of 3.0 or higher for their first two academic terms. A TOEFL score of at least 550 for paper based, 79 for internet based, or 213 computerized, is required for international applicants. Satisfying the minimum entrance requirements does not guarantee admission.

## To Apply

Submit all application materials online to the Graduate School at [www.gradschool.eku.edu/apply](http://www.gradschool.eku.edu/apply) (<http://www.gradschool.eku.edu/apply/>):

- Graduate School application and fee;
- Official transcripts;
- TOEFL score;
- Statement of personal and professional objectives (1 1/2 to 2 pages); and

- 3 letters of recommendation from employers and/or previous professors.

For application deadlines visit: <https://gradschool.eku.edu/graduate-application-deadlines> (<https://gradschool.eku.edu/graduate-application-deadlines/>)

## Academic Background Expectations for MPH Concentrations

So that timely progress toward the degree can be achieved, the following undergraduate pre-requisite courses are expected to be completed prior to active participation in the program.

Environmental/Occupational Health and Sustainability: At least 1 physical science, 2 chemistry with lab, 2 biology with lab, college algebra, and 1 microbiology course at the undergraduate level.

## Program Requirements

CIP Code: 51.2201

Code	Title	Hours
<b>Core Courses</b>		
MPH 810	Human Behavior Change	3
MPH 816	Public Health Org and Admin	3
MPH 825	Public Health Planning	3
MPH 830	Biostatistics in Health Sci	3
MPH 840	Rsrch Mthds in Public Health	3
MPH 850	Intro to Envir. Health Science	3
MPH 855	Principles of Epidemiology	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		21
Health Promotion Concentration (offered by the Department of Health Promotion & Administration)		
Environmental/Occupational Health & Sustainability Concentration (offered by the Department of Environmental Health Science)		
<b>Exit Requirements</b>		
MPH 895	Public Health Capstone (MPH Capstone)	1
<b>Total Hours</b>		<b>43</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
<i>Required Courses</i>		
EHS 840	Total Worker Health	3
EHS 860	Air Quality Assessment	3
EHS 865	Environmental Toxicology	3
<i>Electives</i>		
Choose from six hours of the following approved electives:		6
EHS 710	Radiological Health & Safety	
EHS 730	Emerging and Re- Infect Diseases	
EHS 841	Occ Health Exposure Assessment	
EHS 855	Global Envir Crisis Management	
EHS 880	Food/Waterborne Sanitation	

*Applied Practice Experience*

EHS 839 or EHS 863	Appl Learning in Env Hlth Sci Field Experience in Env. Hea	3
<i>Integrative Learning Experience</i>		
EHS 890	Grad Project in Envrnmntl Hlth	3
<b>Total Hours</b>		<b>21</b>

## Master of Public Health with a Concentration in Health Promotion (offered by the Department of Health Promotion & Administration) (M.P.H.)

Dr. Michelyn Bhandari, Interim MPH Director  
 www.mph.eku.edu (http://www.mph.eku.edu)  
 859-622-6330

### General Information

The College of Health Sciences at Eastern Kentucky University offers a Master of Public Health (MPH) degree with concentrations in Health Promotion, and Environmental/Occupational Health & Sustainability. The two participating departments include the Department of Environmental Health Science, and the Department of Health Promotion and Administration. The program is tailored to meet the needs of individuals working in or planning to work in a public health profession.

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The mission of the public health programs is to prepare culturally competent, skilled public health practitioners that are engaged in community-focused service and public health scholarship, for the commonwealth and beyond.

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To achieve its mission, the MPH Program prepares professionals for broad-based practice in public health, grounded in foundational public health knowledge and foundational competencies with specialized knowledge, and expertise in a selected public health discipline.

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3. Participate in professional development, scholarship, service, and interdisciplinary educational activities that contribute to public health.
4. Integrate and apply knowledge and skills (competencies) within the traditional core public health areas of knowledge (behavioral sciences, biostatistics, epidemiology, environmental health science, and public health administration) as well as crosscutting and emerging public health areas.
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Clear admission to the MPH program requires a baccalaureate degree from an accredited institution. Applicants with a cumulative undergraduate grade point average (GPA) of 3.0 or higher – or – 3.25 in their last 60 hours of undergraduate work meet the minimum requirements for eligibility for full-admission consideration. Applicants with a cumulative undergraduate degree GPA of 2.5 or higher, but do not meet the requirements for full-admission consideration, are eligible for provisional admission consideration. Students with provisional admission based upon GPA must maintain a cumulative graduate GPA of 3.0 or higher for their first two academic terms. A TOEFL score of at least 550 for paper based, 79 for internet based, or 213 computerized, is required for international applicants. Satisfying the minimum entrance requirements does not guarantee admission.

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- Graduate School application and fee;
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- 3 letters of recommendation from employers and/or previous professors.

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## Academic Background Expectations for MPH Concentrations

So that timely progress toward the degree can be achieved, the following undergraduate pre-requisite courses are expected to be completed prior to active participation in the program.

- Environmental/Occupational Health and Sustainability: At least 1 physical science, 2 chemistry with lab, 2 biology with lab, college algebra, and 1 microbiology course at the undergraduate level.

## Program Requirements

CIP Code: 51.2201

Code	Title	Hours
<b>Core Courses</b>		
MPH 810	Human Behavior Change	3
MPH 816	Public Health Org and Admin	3
MPH 825	Public Health Planning	3
MPH 830	Biostatistics in Health Sci	3
MPH 840	Rsrch Mthds in Public Health	3
MPH 850	Intro to Envir. Health Science	3
MPH 855	Principles of Epidemiology	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		21
Health Promotion Concentration (offered by the Department of Health Promotion & Administration)		

Environmental/Occupational Health & Sustainability  
Concentration (offered by the Department of Environmental Health  
Science)

**Exit Requirements**

MPH 895	Public Health Capstone (MPH Capstone)	1
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**Total Hours** **43**

**Concentration**

Code	Title	Hours
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**Concentration Courses***Required Courses*

HEA 805	Public Health Communication	3
HEA 820	Global Health	3
HEA 826	Public Health Program Evaluati	3
HEA 856	Applied Epidemiology	3

*Electives*

Choose from three hours of the following approved electives: 3

HEA 790	Health Education:_____	
HEA 791	Women's Health	
HEA 792	Human Sexuality	
HEA 793	Death and Grief	
HEA 784		
MPH 835	Survey of PH Statistical Analy	
POL 847S	Grant Writing	
EHS 880	Food/Waterborne Sanitation	
SSE 826	Emergency Prep/Response	

*Applied Practice Experience*

HEA 890	Practicum in Community Health	3
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*Integrative Learning Experience*

HEA 880	Scholarship in Cmmnty Health	3
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**Total Hours** **21**

## Department of Occupational Science and Occupational Therapy

Dr. Dana Howell, Chair

Dr. Renee Causey-Upton, Graduate Coordinator

Dr. Shirley O'Brien, Post-professional OTD Coordinator

www.ot.eku.edu (<http://www.ot.eku.edu>)

(859) 622-3300

### Mission

The mission of the Department of Occupational Science and Occupational Therapy is to prepare professionals who are leaders in occupational science and occupational therapy reaching the community, the Commonwealth and the world, through education, research, and service, fostering services that provide dignity and respect for all people.

### Doctoral

- Occupational Therapy Doctorate with a Concentration in Post-Professional (O.T.D.) (p. 737)
- Occupational Therapy Doctorate with a Concentration in Professional (O.T.D.) (p. 738)
- Rehabilitation Sciences Doctoral Program (p. 738)

### Master's

- Occupational Therapy, Master of Science (M.S.) (p. 735)

### Courses

#### OTS 715. Early Child Sensorimotor Devel. (3 Credits)

A. Prerequisite: education major or degree or instructor's approval. Provides an overview of normal sensorimotor development in infants and young children. Includes contrasting normal/ abnormal development and application of appropriate developmental tasks. Laboratory experiences will be provided.

#### OTS 720. Provid Hlth Serv in Appalachia. (3 Credits)

A. Prerequisite: departmental approval. An analysis of development and delivery of health care services in Appalachia. Examination of relevant current and historical factors, which have an impact on the health of the Appalachian people.

#### OTS 800. OBP: Early Childhood. (3 Credits)

(3) A. Evaluation and intervention related to occupational performance for individuals accessing health and education systems ages 0-5. Theory driven and client centered practices for supporting occupational performance.

#### OTS 804. Practice Experience Prep I. (3 Credits)

A. Preparation for Level II fieldwork, Applied Leadership Experience and Capstone.

#### OTS 805. Practice Experience Prep II. (3 Credits)

A Pre-req: OTS 804 and successful completion of Level II FW. Preparation for Applied Leadership Experience and Capstone.

#### OTS 810. OBP: Children and Youth. (3 Credits)

(3) A. Evaluating and intervention related to occupational performance in children ages 5-21 accessing health and education systems. Theory driven and client centered practices for supporting occupational performance.

#### OTS 815. OBP: Neurological. (3 Credits)

A. Evaluation and intervention related to preventing and remediating neurologic diagnoses. Theory driven and client centered practices for supporting occupational performance.

#### OTS 820. OBP: Fundamentals. (4 Credits)

(4) A. Corequisite: OTS 821. Foundational knowledge in occupation-based practice including philosophy, theory, context, process, and reasoning. Emphasis on active learning and reasoning skills.

#### OTS 821. Level I OT Experience. (3 Credits)

A. Integration and application of foundational knowledge of occupation-based practice through participation in varied practice experiences across a continuum of care. May be retaken to a maximum of 9 hours.

#### OTS 822. OBP: Health Care Practice 1. (4 Credits)

A. Corequisite: OTS 821. Lecture and lab to include theories, principles and methods of evaluation, intervention and outcome processes for individuals accessing health systems. Course will focus on engagement in occupation to support participation in life roles across the lifespan.

#### OTS 824. OBP: Health Care Practice 2. (4 Credits)

A. Prerequisites: OTS 821 and OTS 822. Continued study of theories, principles and methods of evaluation, intervention and outcome processes for individuals accessing health systems. Course will focus on engagement in occupation to support participation in life roles across the lifespan.

**OTS 825. technology and Rehabilitation. (3 Credits)**

A. Prerequisite: computer literacy or departmental approval. Advanced exploration of occupational therapy knowledge and skill about assistive technology. Emphasis on application and use of assistive technology to enhance occupational performance of individuals with disabilities.

**OTS 830. OBP: Education Communities. (4 Credits)**

A. Prerequisites: OTS 824 and OTS 832. Corequisite: OTS 871. Occupation-based assessment and intervention for children and young adults in educational contexts. Course addresses models of practice, service delivery, federal/state legislation and philosophy of administration. Active learning experiences in the community.

**OTS 831. Practice Seminar II. (2 Credits)**

A. Prerequisite: OTS 821 or Corequisites: OTS 824 and OTS 832. Integration of occupation-based practice through reflection on curriculum themes, participation in community-based settings, preparation for Level II Fieldwork and ongoing development of a professional portfolio.

**OTS 832. OBP: Community-Based Practice. (4 Credits)**

A. Corequisite: OTS 831. Theories, principles and methods of evaluation, intervention and outcome processes for individuals and groups assessing social systems through the lifespan. Course will focus on engagement in occupation for community participation.

**OTS 834. OBP: Advanced Dimensions. (3 Credits)**

A. Prerequisite: permission of department. Advanced conceptualization and synthesis of Occupational Science and existing models of Occupational Therapy for practice. Includes analysis and application of occupation-based practice and evidence within specialty areas.

**OTS 835. OT Intervention in Workplace. (3 Credits)**

I, II, A. Prerequisite: OTS 820 or departmental approval. Exploration of the direct and indirect service roles and functions of the occupational therapist in the workplace. Emphasis will be on the work-related behaviors and environmental assessments for health promotion, prevention and work adjustment.

**OTS 836. OBP: Optimizing Occupation. (3 Credits)**

A. Prerequisite: graduate standing in the occupational therapy program; OTS 822, and 832. Specialized evaluation and intervention in occupational therapy practice with emphasis on emerging practice areas. Students will synthesize and apply skills of best practice for optimizing occupations.

**OTS 837. UE Evaluation & Intervention. (3 Credits)**

A. Prerequisite: OTS 822 or departmental approval. This course focuses on advanced study of the upper extremity including evaluation and treatment techniques in evidence-based occupational therapy practice.

**OTS 840. OBP: Mental Health. (3 Credits)**

A Evaluation and intervention related to mental health conditions: Neurocognitive, psychosocial, and behavioral. Theory driven and client centered practices for supporting occupational performance.

**OTS 845. Health Care Practice Fieldwork. (6 Credits)**

A. Prerequisite: Successful completion of all didactic coursework or department approval. Twelve weeks of fieldwork in health care practice to promote systematic evaluation; diagnose occupational performance deficits; develop and implement intervention plans based on occupational profiles and evidence; measure client outcomes; and document findings.

**OTS 846. Community Practice Fieldwork. (3-5 Credits)**

I. Prerequisite: Successful completion of all didactic coursework. Six to ten-week fieldwork in community/education to promote systematic evaluation; diagnose occupational performance deficits; develop and implement intervention plans based on occupational profiles and evidence; measure client outcomes; and document findings.

**OTS 846S. Early Childhood Practice. (3 Credits)**

Prerequisite: OTS820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes therapeutic interventions in early childhood through service learning.

**OTS 847. Emerging Practice Fieldwork. (1-3 Credits)**

Prerequisite: Successful completion of all didactic coursework. Two to six week fieldwork in an emerging or traditional practice settings to develop/refine skills. Includes online reflective seminar.

**OTS 850. Management Principles for OT. (3 Credits)**

A. Principles of supervision, collaboration, strategic planning, and developing, funding, and managing an occupational therapy practice.

**OTS 851. Strategic Communication in OT. (3 Credits)**

A. Prerequisite: undergraduate/graduate course in administration or consent of instructor. Study of change theory and factors affecting communication in practice settings.

**OTS 852. OT Serv in Mental Hlth Setting. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Examination of external forces influencing mental health services and models of occupational therapy service delivery, emphasizing community-based and rural health programs.

**OTS 853. Leadership in Human Services. (3 Credits)**

A. Advance ethical leadership skills through development and application of current leadership theory to become a change agent to positively impact the profession.

**OTS 855. Role of OT & the Aging Adult. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of occupational therapy's role in delivering services to the aging adult in emerging/innovative programming. Identification and analysis of factors which promote/hinder quality of life.

**OTS 855S. Role of OT & the Aging Adult. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of occupational therapy's role in delivering services to the aging adult in emerging/innovative programming. Identification and analysis of factors which promote/hinder quality of life. Credit will not be awarded for both OTS 855 and 855S.

**OTS 860. OBP: Emerging Practice. (3 Credits)**

A. Evaluation and intervention related to emerging areas of occupational therapy practice, including assistive technology. Theory driven and client centered practices for supporting occupational performance.

**OTS 862. Thera. Modalities in OT Pract. (3 Credits)**

Addresses occupational therapy theoretical principles, neurophysiological and electrophysical changes that occur as a result of the application of selected physical and electrical modalities. Students will develop skill in the application of these modalities.

**OTS 863. Occupation & Sensory Process. (3 Credits)**

A. Understanding the impact of sensory processing disorders on occupational natures will enable students to provide appropriate intervention. Occupational adaptation and sensory integrative theories will be applied as conceptual frameworks for occupational therapy intervention.

**OTS 864. Early Childhood Practice. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes the interdisciplinary nature of therapy service delivery in the early childhood.

**OTS 864S. Early Childhood Practice. (3 Credits)**

(A) Prerequisite: OTS 820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes therapeutic interventions in early childhood through service learning.

**OTS 865. School-based Practice. (3 Credits)**

A. Prerequisite: Departmental approval. In-depth study of school-based therapy. Theories, principles, models of practice, and methods of therapy service delivery for students with learning and behavioral difficulties, within the context of state and federal laws.

**OTS 866. OT & Behavior Disorder in Sch. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Examination and application of occupational therapy theoretical models used in evaluation and intervention for this population and the external systems affecting service delivery.

**OTS 870. Profess Trends & Issues in OT. (3 Credits)**

I, II. Trends and issues impacting the occupational therapy profession. Advancement of professional roles of consultant, entrepreneur, educator, leader and researcher.

**OTS 871. Practice Seminar III. (2 Credits)**

A. Corequisite: OTS 830. Integration of occupation-based practice through reflection on curriculum themes, participation in community-based learning in education, preparation for Level II Fieldwork and completion of a professional portfolio.

**OTS 871S. Professional Seminar II. (3 Credits)**

A. Students assume leadership in learning communities, complete professional portfolios and participate in professional learning experiences. Credit will not be awarded for both OTS 871 and OTS 871S.

**OTS 875. Special Topics: \_\_\_\_\_. (1-3 Credits)**

Advanced study of selected topics in occupational therapy practice.

**OTS 880. Res in Occupational Therapy. (3 Credits)**

I, II, A. Exploration, critical analysis and application of research and evidence-based practice in occupational therapy. Emphasis on preparation and implementation of a research study.

**OTS 882. Advanced Occupational Science. (3 Credits)**

II. Exploration of occupational science as a disciplinary knowledge base, current research on occupation-based practice, and methods of developing occupation-based practice. Emphasis on change, clinical leadership and research.

**OTS 883. Change and Complexity in OBP. (3 Credits)**

A. Comprehensive critique of disciplinary literature describing professional applications of occupation. Deriving insights into occupation-based practice (OBP) through perspectives from history, systems, chaos, change, and complexity. Action and change research methods for the development of occupation-based practice.

**OTS 884. Qualitative Inquiry Approaches. (3 Credits)**

A. Prerequisite: Undergraduate course in research design. This course synthesizes the rationale, theoretical foundations, design, methods, analysis, and ethical issues related to qualitative research. Students analyze five approaches of qualitative inquiry, and develop a research prospectus.

**OTS 885. Occupational Perform. Measures. (3 Credits)**

A. Prerequisite: OTS 880 and occupational therapy graduate status or departmental approval. Analysis of clinical evaluation instrumentation. Review of measurement issues and use of instruments in evidence-based practice in occupational therapy. Integration into occupation-based practice.

**OTS 886. Culture and Diversity in OT. (3 Credits)**

A. Importance of culture and diversity in the understanding of health disparities in health care policy and OT practice. Global and national policy and program models for inclusion of culture, diversity and disability are highlighted.

**OTS 890. Independent Study in OT. (1-3 Credits)**

I, II, A. Prerequisite: advisor/departmental approval. Student initiated directed study. Regular consultation with faculty supervisor and final paper required. May be retaken under different subtopics to a cumulative maximum of six hours. Approval of independent study proposal by faculty supervisor and department chair must occur prior to enrollment.

**OTS 895. OT Research Project I. (3 Credits)**

(3) A Development and initiation of a research project as part of a research team. Application of critical thinking and clinical reasoning skills to investigate occupational science and occupational therapy research inquiries.

**OTS 896. Research Project II. (3 Credits)**

A. Prerequisite: OTS 895. Completion of a research project as part of a research team. Application of critical thinking and clinical reasoning skills to investigate occupational science and occupational therapy research inquiries and disseminate results.

**OTS 898. Thesis I. (3 Credits)**

I, II, A. Proposal development leading to thesis as directed by chair of thesis committee.

**OTS 899. Thesis II. (3 Credits)**

Research leading to thesis as directed by chair of thesis committee.

**OTS 899C. Thesis/Project Continuation. (1-3 Credits)**

I, II, A. Prerequisite: advisor/departmental approval. Continuation of research leading to thesis/ special project as directed by the chair of student's committee. May be retaken as necessary to complete research. May not be used to satisfy degree program requirements.

**OTS 901. OTD Leadership Seminar I. (3 Credits)**

A. Prerequisite: Enrollment in OTD Program. Foundational work for development of OTD capstone and Applied Leadership Experience. Conceptualize identity as a leader for change. Develop methods to assess population needs to improve occupation-based programming.

**OTS 902. OTD Leadership Seminar II. (3 Credits)**

A. Prerequisite or Corequisite: OTS 901. Explore options for professional development and leadership experiences. Assess population needs to support occupation-based programming.

**OTS 903. Capstone I: Project Developmnt. (3 Credits)**

(3) Prerequisite: OTS 902. Design capstone project based on needs assessment, literature synthesis, and professional goals to serve as a change agent for occupation-based programming. Capstone emphases are ethical leadership within change and OBP for diverse populations.

**OTS 904. Capstone II: Implmt and Eval. (3 Credits)**

(3) A. Prerequisite: OTS 903. Implement capstone project. Evaluate capstone project outcomes to assess change in occupation-based programming.

**OTS 905. Applied Leadership Experience. (3-6 Credits)**

(3-6) I, A. Prerequisites: OTS 805 or 902. Custom-designed field-based experiences in the Occupational Therapy Doctorate. Emphases are on ethical leadership within change and excellence in occupation-based services for diverse populations.

**OTS 906. OTD Capstone. (1-3 Credits)**

A. Prerequisite: OTS 805 or 904. Integration and application of program outcomes through reflection on Applied Leadership Experience and completion of the capstone project and portfolio. Students present capstone project.

**OTS 910. Policy and Advocacy for OT. (3 Credits)**

(3) A. Analysis of social and healthcare policy on the profession of occupational therapy. Program development to address health disparities, and advocacy needs in emerging practice.

**OTS 911. Applied Research for OT. (3 Credits)**

(3) I. Students will apply research methods, synthesize, paradigms, design, methods, and ethical issues related to research, and discuss funding options. The role of the researcher as an agent of change in practice will be emphasized.

**OTS 912. Evidence-based Practice for OT. (3 Credits)**

(3) II. Evaluate and perform critical research appraisals to justify intervention decisions. Content focuses on: Clinical Reasoning, outcomes measurement, finding evidence, changes in practice, ethics, and communicating evidence-based decisions to stakeholders.

**OTS 913. Educational Practices for OT. (3 Credits)**

(3) I. Prerequisite: Enrollment in the OTD Program. Fundamental principles of designing and implementing educational programs across the lifespan. Educational strategies and learning theories will be analyzed and applied to clinical, community, and didactic settings and populations.

## Occupational Therapy, Master of Science (M.S.)

### General Information

The Department of Occupational Science and Occupational Therapy offers the Master of Science degree in Occupational Therapy. There are two admission concentrations in the program (Professional Concentration, and Post-Professional Concentration). The Professional Concentration is intended for students who do not currently hold a baccalaureate degree or post-baccalaureate certificate in occupational therapy. Permission to enter via the Professional Concentration is highly dependent on the applicant's prior education and therefore the admission criteria should be reviewed carefully. The BS OS Entrance is for the individual with a baccalaureate degree in occupational science. The Post-Professional Concentration is for students who currently hold a baccalaureate degree or post-baccalaureate certificate in occupational therapy from an accredited occupational therapy program.

The graduates of the Master of Science degree program in Occupational Therapy will demonstrate the ability to:

1. Design, provide and analyze evidence-based occupational therapy services that engage people in occupation to support their participation in context.

2. Collaborate with others to promote the health and well-being of diverse persons and communities.
3. Contribute to occupational therapy practice, education and research through the ethical application of reasoning abilities.
4. Reflect the profession's values, principles and beliefs in carrying out professional responsibilities.
5. Inform, negotiate, advocate, and consult with diverse persons, disciplines, and communities to facilitate and promote health.

## Admission Requirements

**This program is no longer admitting students; please refer to the Occupational Therapy Doctorate for current degree options. Professional Pathway**

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Additional requirements established by the program are as follows:

**BS OS Entrance**

1. Bachelor's degree in Occupational Science
2. "C" or better in all prerequisite coursework.
3. 3.0 GPA on the most recent 60 hours of coursework (program prerequisites not included in the most recent 60 hours will be added in the calculation of GPA) or a 3.0 overall undergraduate GPA (all hours attempted in the semester in which the 60th hour occurs will be counted) determined by the February 1st program application deadline.
4. Health Science Reasoning Test (HSRT) Overall Target Score of 15.
5. Three letters of recommendation.

**Specific Criteria**

Students with a baccalaureate degree in occupational science should apply to the Graduate School by February 1 of their senior year for admission into the Master of Science in Occupational Therapy. Students will be admitted on a competitive basis using a weighted matrix.

**Post-Professional Pathway**

(For Licensed, Registered, Practicing Occupational Therapists)

Students interested in pursuing a Master's in route to an OTD, should refer to the OTD program in the catalog.

## Progression Requirements

In addition to the Graduate School progression policy, the MS OT students must achieve a grade of 'B' or higher in all OTS courses to progress in the program. If a student receives a "C" or lower or an Unsatisfactory grade in an OTS course twice or receives a "C" or lower or an Unsatisfactory grade in two separate courses, they will be dismissed from the program. Refer to the Occupational Therapy Graduate Student Handbook for further information on progression and retention.

## Program Requirements

**This program is no longer admitting students; please refer to the Occupational Therapy Doctorate for current degree options.**

CIP Code 51.2306

**Professional Pathway (for B.S. OS Entrants)**

Code	Title	Hours
<b>Core Courses</b>		
OTS 820	OBP Fundamentals	4

OTS 822	OBP. Health Care Practice 1	4
OTS 824	OBP. Health Care Practice 2	4
OTS 830	OBP. Education Communities	4
OTS 832	OBP. Community-Based Practice	4
OTS 836	OBP. Optimizing Occupation	3
OTS 850	Management Principles for OT	3
OTS 880	Res in Occupational Therapy	3

**Electives**

Choose from one of the following: 3

OTS 720	Provid Hlth Serv in Appalachia technology and Rehabilitation	
OTS 835	OT Intervention in Workplace	
OTS 837	UE Evaluation & Intervention	
OTS 851	Strategic Communication in OT	
OTS 852	OT Serv in Mental Hlth Setting	
OTS 853	Leadership in Human Services	
OTS 855	Role of OT & the Aging Adult or OTS 855S Role of OT & the Aging Adult	
OTS 862	Thera. Modalities in OT Pract	
OTS 863	Occupation & Sensory Process	
OTS 864	Early Childhood Practice	
OTS 865	School-based Practice	
OTS 866	OT & Behavior Disorder in Sch	
OTS 870	Profess Trends & Issues in OT	
OTS 875	Special Topics: _____	
OTS 882	Advanced Occupational Science	
OTS 883	Change and Complexity in OBP	
OTS 884	Qualitative Inquiry Approaches	
OTS 885	Occupational Perform. Measures	
OTS 890	Independent Study in OT	
PSY 777	The Autism Spectrum	
PSY 797	Advanced Topics in Psy:_____	
CSD 867	Advanced Language Disorders	
SED 790		

**Research**

Choose from one of the following: 6

*Non-thesis*

OTS 896	Research Project II	
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One elective

*Thesis*

OTS 898	Thesis I or OTS 884 Qualitative Inquiry Approaches	
OTS 899	Thesis II	
GRD 888C	MS Occ Therapy Thesis Denfense (Oral Defense of Thesis)	

**Field Work Experiences***Practice Seminars*

OTS 821	Level I OT Experience	2
OTS 831	Practice Seminar II	2
OTS 871	Practice Seminar III	2

*Capstone Courses*

OTS 845	Health Care Practice Fieldwork	6
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OTS 846	Community Practice Fieldwork	5
OTS 847	Emerging Practice Fieldwork	1
<b>Total Hours</b>		<b>56</b>

## Exit Requirements

### Thesis

A thesis is optional in this program. If thesis option is selected, an oral defense of the thesis is required (GRD 888C MS Occ Therapy Thesis Denfense).

### Comprehensive Examination

A comprehensive examination will be required of all post-professional Master of Science students who are non-thesis candidates (GRD 887D MS Exercise and Sport Science Project Oral Defense).

### Capstone Courses

All entry-level Master of Science students must successfully complete the following capstone classes with a "Satisfactory" grade, OTS 845 Health Care Practice Fieldwork, OTS 846 Community Practice Fieldwork and OTS 847 Emerging Practice Fieldwork.

The professional course work for the Master of Science in Occupational Therapy is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE):

Accreditation Council for Occupational Therapy Education (ACOTE)  
6116 Executive Boulevard, Suite 200  
North Bethesda, MD 20852-4929  
(301) 652-2682

Following successful completion of the Master of Science in Occupational Therapy, the graduate is eligible to sit for the National Board for Certification in Occupational Therapy (NBCOT) certification examination. For additional information on the examination, contact

NBCOT  
One Bank Street, Suite 300  
Gaithersburg, MD 20878  
[www.nbcot.org](http://www.nbcot.org) (<http://www.nbcot.org>)

Professional level graduates must apply for licensure and/ or certification prior to practicing in any state. A criminal record (excluding minor traffic violations) may make a person ineligible for national certification examination and/or licensure or state certification for practice. Students with such a history should contact NBCOT and relevant licensing or certifying bodies prior to enrollment to determine their situation. For more information regarding the profession, contact the American Occupational Therapy Association (AOTA):

American Occupational Therapy Association (AOTA)  
6116 Executive Boulevard, Suite 200  
North Bethesda, MD 20852-4929  
[www.aota.org](http://www.aota.org) (<http://www.aota.org>)

Program changes may occur in response to accrediting agencies. Students should contact the department to verify program requirements.

# Occupational Therapy Doctorate with a Concentration in Post-Professional (O.T.D.)

## General Information

The Department of Occupational Science and Occupational Therapy offers the Occupational Therapy Doctorate (OTD) program. There are two admission concentrations to the OTD program: Professional Concentration and Post-Professional Concentration. The Professional Concentration is intended for students who do not currently hold a baccalaureate degree or post-baccalaureate certificate in occupational therapy, and who have completed the EKU Bachelor of Science in Occupational Science degree program. The Post-Professional Concentration is for students who currently hold an entry-level degree or certificate in occupational therapy from an accredited occupational therapy program. The Post-Professional concentration does not accept occupational therapy assistants.

Graduates of the Post-professional Concentration will:

1. Engage in occupation-based practice as a method of change to positively impact the future of the profession and the quality of occupational therapy services.
2. Ethically and responsibly meet the needs of diverse client populations, by addressing issues related to health disparity, policy and legislation.
3. Serve as leaders of change at local, state, and national levels using tools such as program development, research, client education, and evidence based practice.
4. Use advanced critical reasoning skills to provide ethical occupational therapy services.

## Admission Requirements

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Additional requirements established by the program are as follows:

1. A degree (post-baccalaureate certificate, baccalaureate or masters) from an entry level occupational therapist program that is accredited by the Accreditation Council of Occupational Therapy Education (ACOTE). International applicants must have met all requirements for practice in their own country and graduated from an accredited or World Federation of Occupational Therapy (WFOT) approved occupational therapy program.
2. Initial certification by the National Board for Certification in Occupational Therapy (NBCOT). International applicants must provide documentation that they are eligible to practice as an occupational therapist in their home country.
3. A graduate research methods course.
4. Three letters of recommendation (waived for students who graduated from EKU)
5. A one-to-two page statement of professional goals.
6. A resume and/or professional portfolio.
7. Transcripts of undergraduate and graduate coursework.
8. An online graduate application.

9. Those applicants meeting the above criteria may be required to complete an admission interview with the faculty of the doctoral program prior to final selection.

## Specific Criteria

Applicants should apply by August 5 for fall term; December 5 for Spring term; or May 5 for Summer term.

## Progression Requirements

Students need to obtain a grade of a B or higher in all courses in order to progress in the program.

## Program Requirements

CIP Code: 51.2306

All classes meet online. Students who require a graduate research methods course for admission to the program may take OTS 884 Qualitative Inquiry Approaches, OTS 895 OT Research Project I, or OTS 896 Research Project II, or other comparable graduate research course.

Code	Title	Hours
<b>Core Courses</b>		
OTS 853	Leadership in Human Services	3
OTS 882	Advanced Occupational Science	3
OTS 886	Culture and Diversity in OT	3
OTS 910	Policy and Advocacy for OT	3
OTS 911	Applied Research for OT	3
OTS 912	Evidence-based Practice for OT	3
OTS 913	Educational Practices for OT	3
<b>Concentrations</b>		<b>21-36</b>
Students must select one of the following Concentrations:		
Professional		
Post-Professional		
<b>Total Hours</b>		<b>42-57</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
<i>Leadership</i>		
OTS 901	OTD Leadership Seminar I	3
OTS 902	OTD Leadership Seminar II	3
OTS 905	Applied Leadership Experience	3-6
<i>Capstone Courses</i>		
OTS 903	Capstone I: Project Development	3
OTS 904	Capstone II: Implmt and Eval	3
OTS 906	OTD Capstone	1-3
<b>Total Hours</b>		<b>16-21</b>

## Exit Requirements

Students in the Post-Professional Concentration are required to:

1. Satisfactorily complete and present a capstone project.
2. Satisfactorily complete and present a professional portfolio.

# Occupational Therapy Doctorate with a Concentration in Professional (O.T.D.)

## General Information

The Department of Occupational Science and Occupational Therapy offers the Occupational Therapy Doctorate (OTD) program. There are two admission concentrations to the OTD program: Professional Concentration and Post-Professional Concentration. The Professional Concentration is intended for students who do not currently hold a baccalaureate degree or post-baccalaureate certificate in occupational therapy, and who have completed the ECU Bachelor of Science in Occupational Science degree program. The Post-Professional Concentration is for students who currently hold an entry-level degree or certificate in occupational therapy from an accredited occupational therapy program. The Post-Professional concentration does not accept occupational therapy assistants.

Graduates of the Professional Concentration will:

1. Actualize occupation-based principles to promote the occupational therapy profession.
2. Disseminate occupation-based principles through professional written, oral, and non-verbal communication in order to promote occupational therapy.
3. Apply critical thinking to facilitate changes that will improve outcomes in occupational therapy.
4. Demonstrate excellence and personal and professional accountability that will lead the discipline forward and meet the increasingly complex demands that will be required of occupational therapists.
5. Demonstrate in-depth knowledge in a practice area to positively impact the quality of occupational therapy services and the future of the profession.

## Admission Requirements

To be considered for admission, applicants to the Professional Concentration must meet the general admission requirements of the Graduate School. Additional requirements established by the OTD Program are as follows:

1. Successful completion of a Bachelor's degree in Occupational Science (the first two years of the combined BSOS to OTD entry level program at ECU) with a minimum GPA of 3.0
2. Completion of a 2nd Health Science Reasoning Test (HSRT)

## Specific Criteria for Students in the Bachelor of Science in Occupational Science Program

Students in the Bachelor of Science in Occupational Science program should apply to the Graduate School by February 1 of their second professional year for admission into the OTD Professional Concentration.

## Progression Requirements

Students need to obtain a grade of a B or higher in all courses in order to progress in the program. Students in the Professional Concentration must successfully complete the Professional Year 3 competency to progress in the program.

## Program Requirements

CIP Code: 51.2306

Code	Title	Hours
<b>Core Courses</b>		
OTS 800	OBP: Early Childhood	3
OTS 804	Practice Experience Prep I	3
OTS 810	OBP: Children and Youth	3
OTS 815	OBP: Neurological	3
OTS 840	OBP: Mental Health	3
OTS 850	Management Principles for OT	3
OTS 853	Leadership in Human Services	3
OTS 860	OBP: Emerging Practice	3
<b>Concentrations</b>		<b>21-36</b>
Students must select one of the following Concentrations:		
Professional		
Post-Professional		
<b>Total Hours</b>		<b>45-60</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
<i>Research</i>		
OTS 895	OT Research Project I	3
OTS 896	Research Project II	3
<i>Electives</i>		
Choose from one of the following:		3
OTS 910	Policy and Advocacy for OT	3
OTS 912	Evidence-based Practice for OT	3
OTS 913	Educational Practices for OT	3
<i>Field Work Experiences</i>		
OTS 821	Level I OT Experience	9
OTS 845	Health Care Practice Fieldwork	6
OTS 846	Community Practice Fieldwork	3-5
OTS 847	Emerging Practice Fieldwork	1-3
<i>Capstone Courses</i>		
OTS 905	Applied Leadership Experience	3-6
<b>Total Hours</b>		<b>40-47</b>

## Exit Requirements

Students in the Professional Concentration are required to:

1. Successfully complete the following capstone classes with a "Satisfactory" grade: OTS 845, 846, and 847
2. Satisfactorily complete and present a capstone project.
3. Satisfactorily complete a professional portfolio.

## Rehabilitation Sciences Doctoral Program

## Rehabilitation Sciences Doctoral Program

(in collaboration with the University of Kentucky)

## General Information

The Department of Occupational Science and Occupational Therapy participates in a collaborative Rehabilitation Sciences Doctoral Program with the University of Kentucky. The Doctoral Program in Rehabilitation Sciences is designed to produce academic leaders, researchers, and clinical leaders. The curriculum will provide the students with general knowledge of the full spectrum of the rehabilitation process as well as in-depth knowledge of one specific area of a discipline, such as Occupational Therapy, Physical Therapy, Athletic Training, or Speech and Communication. The degree is awarded by the University of Kentucky.

## Admission Requirements

The student will apply to the University of Kentucky Graduate School. Students must meet the admission criteria of the Graduate School at the University of Kentucky, possess a Master's Degree and be eligible for a current license to practice in Kentucky.

## Program Requirements

Program requirements can be obtained from <https://www.uky.edu/chs/academic-programs/rehabilitation-sciences-phd-program> (<https://www.uky.edu/chs/academic-programs/rehabilitation-sciences-phd-program/>).

## Exit Requirements

Successful completion of a planned program, comprehensive exam, and a dissertation are required for completion of the Rehabilitation Sciences Doctoral Program.

## Department of Recreation and Park Administration

Dr. Jon McChesney, Chair and Graduate Coordinator/Advisor  
[www.recreation.uky.edu](http://www.recreation.uky.edu) (<http://www.recreation.uky.edu>)  
 (859) 622-1833

The Department of Recreation and Park Administration offers a Master of Science degree in Recreation and Park Administration. Graduates pursue supervisory and management positions in the delivery of recreation, parks, and tourism services.

The Department of Recreation and Park Administration is responsible for program advisement and course prescriptions leading to the Master of Science degree in Recreation and Park Administration.

Full time students may be able to complete the M.S. degree in one year. Graduates may be eligible to apply for the Certified Park and Recreation Professional (CPRP), and/or Certified Therapeutic Recreation Specialist certification (CTRS).

## Mission Statement

The mission of the Department of Recreation and Park Administration is to prepare outstanding recreation, parks and tourism industry professionals and leaders who contribute to the success and vitality of their communities, the Commonwealth, and the world.

## Master's

- Recreation and Park Administration, Master of Science (M.S.)  
 (p. 740)

## Courses

### REC 711. Rec Therapy Prac & Services. (3 Credits)

II. Interventions and utilization of terminology. Apply leadership skills, assistive technology, and programming applications. 2 Lec/2 Lab.

### REC 712. Mgmt of Therapeutic Rec Servic. (3 Credits)

Management concepts applied to delivering therapeutic recreation services, and includes: documentation, activity analysis, assessment, liability, legislation and standards of practice.

### REC 712S. Mgmt of Rec Therapy Services. (3 Credits)

I. Prerequisite: for majors only. Management concepts applied to delivering recreation therapy services, and includes: documentation, activity analysis, assessment, liability, legislation, and standards of practice. Includes 15 service learning hours.

### REC 716. Rcrtn & Prk Interpretive Srvcs. (3 Credits)

The interpretation of natural, historical and cultural resources in recreation and park settings. Frequent agency visits and educational field seminars are components of this course.

### REC 720. Trends/Issues in Rec Therapy. (3 Credits)

A. Professional issues and trends discussion on topics related to recreation therapy such as clinical practice, licensure, legislative and regulatory issues, curricular standardization, professional ethics and other relevant professional topics.

### REC 730. Park Management. (3 Credits)

II. Park purposes and operations with an emphasis on natural resources and visitor management. Concentration on design, resource conservation and preservation, public relations, park policies.

### REC 790. Special Topics:\_\_\_\_\_. (1-3 Credits)

A. Identification and study of specialized techniques in recreation leadership, activities skills, operational methods, and services. May be retaken under different subtitle.

### REC 800. Literature Analysis in Rec. (1 Credit)

I. Individualized study of recreation and park administration designed for students entering the graduate program without a degree in recreation, parks, or tourism. It is recommended that this course be completed before taking classes in the graduate program. This course must be passed with at least a B grade.

### REC 801. Park, Rec & Tour Resrch Methds. (3 Credits)

II. Emphasis will be on applied research methods in the field of parks, recreation, leisure and tourism. Prepares students to understand and identify appropriate data collection methods, sampling, questionnaire design, data analysis, and interpretation of research literature.

### REC 809. Advanced Study in Recreation. (3 Credits)

A. Prerequisite: REC 801. Directed study of topics in recreation and leisure. An advanced study project and individual meetings with instructor are required. An advanced study proposal from must be approved prior to enrollment.

### REC 815. Internship. (1-3 Credits)

A. Prerequisite: department chair approval. Supervised practical work experience in a clinical or administrative setting.

### REC 825. Phil of Recreation and Leisure. (3 Credits)

I. Examination of recreation theory and practice from both research and empirical bases. Significance of leisure and recreation for the individual and society. Recreation's future in a changing cultural milieu.

**REC 830. Outdoor Rec. in America. (3 Credits)**

I. A study and analysis of outdoor recreation policy development and agency management. Includes the development of natural and historical interpretive services.

**REC 840. Admin Proc & Pract. (3 Credits)**

II. Principles and concepts of administration, in-depth investigation of budgeting, policy formulation, and legislative provisions.

**REC 850. Recreation & Tourism Marketing. (3 Credits)**

I, II. The purpose of this course is to provide the student with an in-depth understanding of marketing in the public and commercial recreation sectors, parks, and leisure services.

**REC 870. Rec Therapy Quality Assurance. (3 Credits)**

I, II. Examine the components of quality assurance and techniques for evaluation related to programs, management, and patient outcomes in therapeutic recreation settings.

**REC 871. Therapeutic Recreation Admin. (3 Credits)**

I, II. Understand the characteristics of management, administrative management, as related to human services in therapeutic recreation.

**REC 890. Independent Study in REC. (3 Credits)**

I, II, A. Student must have the independent study proposal form approved by the graduate program director and chair prior to enrollment. Student initiated directed study for the purpose of conducting research and examining issues in park, recreation, and leisure services. May be retaken up to six hours, provided the topics are different.

**REC 897. Thesis. (3-6 Credits)**

A. Designed for students preparing a thesis in partial fulfillment of the requirements for the master's degree program.

## Recreation and Park Administration, Master of Science (M.S.)

### General Information

The Master of Science program provides a generalized study in recreation, parks, and tourism services management. The program prepares students for supervisory and management careers in therapeutic recreation, commercial recreation and tourism, natural resource management, and public and nonprofit recreation. Individuals with backgrounds in biology, business, physical education, sociology, and psychology frequently lead professional careers in recreation, parks, and leisure services.

### Admission Requirements

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Applicants who do not meet the Graduate School's GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 143 on the Verbal and Quantitative sections.

An undergraduate major or minor in recreation, parks, or leisure is preferred. REC 350 Supervision of Recreation Personnel and REC 460 Advanced Leadership and Programming (or course equivalents) are undergraduate prerequisites for students not holding a BS degree in recreation, parks, or leisure services.

Courses open to graduate students require a minimum understanding of foundations in recreation and park administration, knowledge of facility

operation, agency budgeting, and legal issues. Students with limited field experience may be required to complete a graduate practicum course.

## Program Requirements

CIP Code: 31.0301

### Curriculum for the General Program

Code	Title	Hours
<b>Recreation Core Requirements</b>		
<i>Foundation</i>		
REC 825	Phil of Recreation and Leisure	3
<i>Administration</i>		
REC 815	Internship	3
REC 840	Admin Proc & Pract	3
REC 850	Recreation & Tourism Marketing	3
<i>Research</i>		
REC 801	Park, Rec & Tour Resrch Methds	3
<i>Advanced Study</i>		
REC 809	Advanced Study in Recreation	3
<b>Supporting Course Requirements</b>		
Choose from nine hours of the following:		9
REC 711	Rec Therapy Prac & Services <sup>1</sup>	
REC 712	Mgmt of Therapeutic Rec Servic <sup>1</sup>	
REC 716	Rcrtn & Prk Interpretive Srvc	
REC 720	Trends/Issues in Rec Therapy <sup>1</sup>	
REC 730	Park Management	
REC 790	Special Topics:_____	
REC 830	Outdoor Rec. in America	
REC 870	Rec Therapy Quality Assurance <sup>1</sup>	
REC 871	Therapeutic Recreation Admin <sup>1</sup>	
REC 890	Independent Study in REC	
REC 897	Thesis	
<b>Electives</b>		
Choose from three hours of elective courses		3
<b>Exit Requirements</b>		
GRD 887E	MS Rec&Park Written Comp Exam	0
<b>Total Hours</b>		<b>30</b>

1

Students wishing to sit for the National Therapeutic Recreation Certification Exam are required to take these 15 hrs. of Recreation courses. Therefore additional hrs. may be needed.

### Exit Requirements

- **Thesis** – A thesis is optional in this degree program.
- **Comprehensive Examination** – A comprehensive examination is required (GRD 887E MS Rec&Park Written Comp Exam).

## College of Justice, Safety, and Military Science

Dr. Derek Paulsen, Dean  
Stratton 354-A  
(859) 622-3565

Dr. Scott Hunt, Associate Dean  
Stratton 354-B  
(859) 622-3565

[www.justice.eku.edu](http://www.justice.eku.edu) (<http://www.justice.eku.edu>)

## School of Justice Studies

Dr. Victoria Collins, Interim Chair and Graduate Program Coordinator  
Stratton Building, Room 467

Dr. Pete Kraska, Graduate Program Coordinator

## Faculty

K. Blevins, J. Brent, A. Brisman, V. Collins, C. Dewhurst, G. Ferrell, J. Gilliam, S. Hunt, S. Kappeler, P. Kraska, M. Land, C. Lawson, B. Matthews, W. McClanahan, D. Paulsen, C. Root, J. Schept, I. Soderstrom, J. Wells, and S. Williams.

## Master's

- Criminal Justice Policy and Leadership, Master of Science (M.S.) (p. 744)
- Criminology and Criminal Justice, Master of Science (M.S.) (p. 745)

## Courses

### Criminal Justice Policy and Leadership

#### CPL 802. Violence Against Women. (3 Credits)

A. This course provides students with a human right framework and cross-cultural understanding of violence against women, and efforts across societies to translate international knowledge into local justice for gender-based violence and female victims. Credit will not be awarded to students who have credit for CRJ 802.

#### CPL 808. Anlys of Cor and Juv Just data. (3 Credits)

A. Formerly COR 808. Prerequisites: undergraduate research methods and undergraduate statistics or departmental approval. This course examines techniques for analyzing data in corrections and juvenile justice. Emphasis is placed on analysis and interpretation of data using univariate, bivariate, and multivariate techniques.

#### CPL 809. Pro/Policy Eval and Analysis. (3 Credits)

A. Formerly JPL 809. Qualitative/quantitative concepts and procedures to manage, understand, and effectively consume program evaluation and statistically based-research. Reading, understanding, accurately interpreting evaluation-based research journals and governmentally produced research emphasized.

#### CPL 810. Criminological Theory for Policy & Leadership. (3 Credits)

A. Formerly JPL 810. Presents and critiques explanations of crime, delinquency, and criminalization processes with emphasis on application of explanations to criminal/juvenile justice policy/leadership issues. Credit will not be awarded for students who have credit for JPL 810.

#### CPL 812. Lead w Pol, Eth, and Emo Intel. (3 Credits)

A. Formerly JPL 812. This course examines leadership within the justice field, focusing on three competencies essential for effective, just leadership: political, ethical, and emotional intelligence. Understanding mindset/tactics associated with administrators that do/don't lead with these competencies. Credit will not be awarded to students who have credit for JPL 812.

#### CPL 814. Policing and Society. (3 Credits)

A. Theoretical, historical and comparative perspectives on policing. Critical analysis of the function of police in modern society. Credit will not be awarded to students who have credit for CRJ 814.

#### CPL 818. Rsrch Mthds Jstc Plcy and Ldrs. (3 Credits)

A. Formerly JPL 818. This course examines strategies/issues relevant to the collection and analysis of quantitative and qualitative data for criminal justice research. Special attention will be paid to the methodology most relevant to agency administration. Credit will not be awarded to students who have credit for JPL 818.

#### CPL 820. Issues in Juv Instit/Com Cor. (3 Credits)

A. Formerly JPL 820. Examines trends/issues central to understanding contemporary juvenile corrections/crime; correctional trends; historical development; use/effectiveness of various interventions (prevention, pre/post adjudicatory responses to juvenile offenders).

#### CPL 823. Topics: Just Policy and Lead. (3 Credits)

A. Formerly JPL 823. This is a variable topic seminar meant to provide in-depth, critical analyses of contemporary issues in adult corrections or juvenile justice, or police policy. The course may be retaken to a maximum of six hours on different topics.

#### CPL 825. Illicit Offender Networks. (3 Credits)

A. Formerly JPL 825. Examines structure/functions of inmate exchange networks. Discussion on markets for illicit goods, services; interpersonal, collective, sexual violence; staff complicity in illegal activities. Explore social/institutional factors impacting inmate exchange networks.

#### CPL 826. Intr Response to Juv Adult Off. (3 Credits)

A. Formerly JPL 826. Examination of adult and juvenile systems of punishment, traditional and non-traditional, of various nations. Explore critical issues/trends from several perspectives to develop deeper understanding of prison and alternatives in the US and world.

#### CPL 827. Corrections & Crime Mythology. (3 Credits)

A. Formerly JPL 827. Interrelatedness of social construction of issues in corrections, prisons, crime in popular/media culture with empirical realities of these issues. Examination of social and symbolic construction through analysis of film, literature, popular culture, academic literature.

#### CPL 828. MH/Sub Abuse Issues in Cor Stg. (3 Credits)

A. Formerly JPL 828. Explores prevalence, diagnosis, best practices for treatment of mental illness/substance abuse disorders; pressing issues facing the criminal justice system in the correctional population.

#### CPL 830. Understanding Corr/Juv Just In. (3 Credits)

A. Formerly JPL 830. Situates issues facing correctional organizations in historical, political, economic, cultural contexts. Emphasizes applying theory and critical thinking to address problems/issues/trends facing leaders in corrections and juvenile justice.

#### CPL 835. Adv Jus Admin and Leadership. (3 Credits)

A. Formerly JPL 835. An examination of theoretical bases and contemporary approaches to justice organizations, administration and leadership. Emphasis placed in the social, cultural, and political setting of justice administration and management. Credit will not be awarded to students who have credit for JPL 835.

#### CPL 839. Co-op: Justice Policy and Lead. (3 Credits)

A. Formerly JPL 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for JPL 839.

**CPL 839A. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839B. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839C. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839D. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839E. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839F. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 840. Adult Corrections. (3 Credits)**

A. Formerly JPL 840. This course analyzes current and emerging trends/issues in adult community and institutional corrections. The future of corrections is examined based on current and projected trends.

**CPL 850. Corr & Juv Just Interventions. (3 Credits)**

A. Formerly JPL 850. This course provides critical analyses of research and theories guiding effective rehabilitation programs in corrections and juvenile justice. It examines how various factors contribute to criminal behavior and how assessment procedures can improve programs.

**CPL 856. Law/Ethics in Dealing with Off. (3 Credits)**

A. Formerly JPL 856. Analyzes ethical and legal issues confronting leaders in adult and juvenile correctional agencies. Evaluates statutory law, case decisions, administrative promulgations from constitutional and socio-legal standpoints.

**CPL 857. Comm Context of Adult/Juv Cor. (3 Credits)**

A. Formerly JPL 857. Analyzes interaction between local communities/institutional/community corrections. Explores how community shapes offenders entering the correctional system; how the correctional system impacts local communities. Emphasis on subcultural theories of crime and communities; implications of re-integrating offenders.

**CPL 860. Advanced Organizational Theory. (3 Credits)**

A. Formerly CRJ 860. Analysis of theories/metaphors of organizations and management, including modernist, neo-modernist and post-modernist with respect to political, technological, environmental, historical contexts, with implications for organization design, structure, culture, leadership, strategy.

**CPL 862. Race, Identity & Policing. (3 Credits)**

A. Formerly CRJ 862. Examines why racial injustices exist in criminal justice and policing, using historical and contemporary studies of connections between race, poverty, and the criminal justice system/policing.

**CPL 864. Comparative & Intl Policing. (3 Credits)**

A. Examination of comparative and international policing focusing on the structure and processes of systems in other nations, their relative successes, failures, and effects on the world environment. Credit will not be awarded to students who have credit for CRJ 802.

**CPL 875. Crime and Public Policy. (3 Credits)**

A. Provides an overview of factors shaping crime policy. The concept of crime, the use of law to promote social control policies, policy responses related to crime control and the efficacy of those policies will be examined. Addresses conceptualizations of the modern state and the use of state power. Credit will not be awarded to students who have credit for CRJ 802.

**CPL 878. Capstone Applied Resrch Project. (3 Credits)**

A. Prerequisite: Complete core courses; final semester registration. Formerly JPL 878. Culminating academic experience involving research of well-defined appropriate topical methods of inquiry, integrating knowledge gained throughout program. Credit will not be awarded to students who have credit for JPL 878.

**CPL 897. Independent Study. (3 Credits)**

A. Formerly JPL 897. Students engage in self-directed learning at the university or in a field setting under graduate faculty supervision. Students must have completed a minimum of 6 hours of JPL coursework and have clear admission status to be eligible to register for this course. Additionally, students must have the independent study proposal form approved by faculty supervisor and the graduate director before enrolling. Credit will not be awarded to students who have credit for JPL 897.

**Criminal Justice****CRJ 800. Advanced Crimi Justice Studies. (3 Credits)**

A. An orientation to our field of study as well as an examination of the criminal justice and crime control apparatus. Includes a review of the assumptions, theories, research, and normative orientations that underlie and drive criminal justice thinking and practice.

**CRJ 801. History of Criminal Justice. (3 Credits)**

A. An examination of the historical development of the criminal justice system.

**CRJ 802. Violence Against Women. (3 Credits)**

A. This course provides students with a human rights framework and cross-cultural understanding of violence against women, and efforts across societies to translate international knowledge into local justice for gender-based violence and female victims.

**CRJ 808. Analysis of Crimi Justice Data. (3 Credits)**

A. An examination of statistics and analysis in criminal justice research. Addresses epistemological presuppositions, statistical assumptions, results, and use of results for decision making.

**CRJ 810. Advanced Police Administration. (3 Credits)**

A. An examination of the functions of the police in the criminal justice system; concepts and principles of police organizational structure; concepts and principles of administration and management with an emphasis on the environment, change, conflict, strategy and evolution.

**CRJ 813. Analysis of Police Operations. (3 Credits)**

A. An analysis of the strategies and programs utilized in modern police work. Previous research studies and contemporary methods for assessing the effectiveness of police practices are examined.

**CRJ 814. Policing and Society. (3 Credits)**

A. Theoretical, historical and comparative perspectives on policing. Critical analysis of the function of police in modern society.

**CRJ 815. Policing Global Insecurity. (3 Credits)**

A. Examines global security threats (e.g. terrorism, transnational crime, ethnic cleansing) and the State and private sector's role in their construction and control. Late-modern social, political, and cultural movements are used to make theoretical sense of these phenomena.

**CRJ 821. Class, Race, Gender, & Justice. (3 Credits)**

A. Course will examine issues of justice related to race, gender, class and intersections inherent between multiple identities. Significant attention to marginalized populations/ disparate outcomes within particular institutions.

**CRJ 823. Social Justice and Music. (3 Credits)**

I, II. This course analyzes how American society and justice are reflected in popular music and its performance. The course examines connections between music, culture, history and society. A knowledge of music is not a pre-requisite.

**CRJ 829. Juvenile Justice. (3 Credits)**

A. This course presents a critical analysis of juvenile justice operations with particular emphasis placed on history and the role and effectiveness of police, court, and correctional responses to juvenile offenders.

**CRJ 833. Human Trafficking. (3 Credits)**

A. Critically examines the global problem of human trafficking and international legal frameworks, including obligations for prevention, protection, prosecution and partnership as it relates to addressing human trafficking.

**CRJ 840. Punishment and Society. (3 Credits)**

I. Beginning with the enlightenment and classical philosophers, students will examine historical and current trends in punishment and social control theory and practice. Addresses social control and punishment in late-modernity.

**CRJ 842. Human Rights & Justice. (3 Credits)**

A. Studies human rights movements, international law, and issues such as war on terrorism. Applies a paradigm of global human-rights justice to identify problem exemplars, exemplary problems solutions, and failing as well as failed paradigms.

**CRJ 843. Adv Issues in Criminal Law. (3 Credits)**

A. Advanced study of criminal law and procedure with emphasis upon judicial supervision of law enforcement and review of convictions.

**CRJ 844. Innocence Project Externship. (3 Credits)**

A. Corequisite and or Prerequisite: CRJ 843 and departmental approval. The externship is designed to teach students the fundamental components of effective criminal investigation. Students will have the opportunity to apply investigation skills and knowledge offered in the classroom to cases which may contain previously overlooked exculpatory evidence.

**CRJ 846. Legal Issues in Crim Just Admi. (3 Credits)**

A. Legal research methodology; examination of employment problems including labor-management relations and discrimination; administrative agencies; civil liability, including vicarious liability and related issues.

**CRJ 856. Legal & Ethical Issues in Corre. (3 Credits)**

An analysis of the impact of federal and state laws, court decisions, and moral and ethical issues in relation to treatment procedures for adult and juvenile offenders. Emphasis on offender's retention of constitutional guarantees.

**CRJ 864. Comparative & Intl Policing. (3 Credits)**

A. Examination of comparative and international policing focusing on the structure and processes of systems in other nations, their relative successes, failures, and effects on the world environment.

**CRJ 866. Law & the Juvenile Just System. (3 Credits)**

A study of laws relevant to the juvenile justice system with a major focus on further development of laws in terms of current needs and social situations of juvenile offenders.

**CRJ 870. Theories of Crime & Crim Just. (3 Credits)**

A. Examines the major theoretical perspectives in modern criminology and criminal justice, including classical statements and contemporary developments. Provides an exploration of theoretical arguments, underlying assumptions, philosophy of science commitments, and the sociohistorical context in which the theories were developed.

**CRJ 871. Crime, Victims and Criminals. (3 Credits)**

A. Examines the relationship between social inequality, crime, criminals and victims. Addresses the use of power in the construction of crime and the creation of law, as well as differential treatment by gender, race, ethnicity and class.

**CRJ 872. The Community Context of Crime. (3 Credits)**

A. Examines crime and synthesizes the body of theory and research examining community level effects on crime/crime control.

**CRJ 873. Social Construction of Crime. (3 Credits)**

A. Examines the social construction of crime including consideration of the process by which crime problems are generated.

**CRJ 874. Crime, Criminal Jus & Pop Cult. (3 Credits)**

A. Examines the interrelatedness of consumption, production, crime and popular culture. Examination of the social and symbolic construction of crime will be included through analysis of film, literature, music, and academic literature.

**CRJ 875. Crime and Public Policy. (3 Credits)**

A. Provides an overview of factors shaping crime policy. The concept of crime, the use of law to promote social control policies, policy responses related to crime control and the efficacy of those policies will be examined. Addresses conceptualizations of the modern state and the use of state power.

**CRJ 876. Organizational Crime. (3 Credits)**

A. This course explores empirical research, theories, and concepts related to crime committed within organizational contexts. Particular attention is paid to forms of syndicated crime, corporate crime, governmental corruption, and state crime.

**CRJ 877. Postmodernism and Justice. (3 Credits)**

A. An introduction to the ideas of postmodernism as applied to criminal justice. In contrast to the scientific model of inquiry most often used in criminal justice, the use of postmodernism brings to the field of criminal justice new models characterized by relationships, the importance of symbols, and assumptions that underlie our understanding of the concept of justice.

**CRJ 878. Ideology and Criminal Justice. (3 Credits)**

A. An assessment of the interrelatedness of crime and ideology. Includes an examination of the ideological construction of crime and crime control.

**CRJ 879. Vice and Criminal Justice. (3 Credits)**

A. A historical, analytic overview of America's response to vice. Particular topics will be chosen from the major vices in American society: prostitution, gambling, drugs and alcohol, as they relate to this country's relationship between morality and the criminal law.

**CRJ 888. Research Methods in Crim Just. (3 Credits)**

A. Prerequisites: undergraduate research methods and undergraduate statistics. Study of the philosophical foundations, design, and processes of criminal justice and criminological research: critical critique of current research issues in criminal justice.

**CRJ 889. Qualitative Research Methods. (3 Credits)**

A. A survey of qualitative research strategies and their epistemological presuppositions.

**CRJ 890. Topical Seminar in Crim Just. (1-3 Credits)**

A. May be retaken to a maximum of nine hours on different topics.

**CRJ 897. Independent Study in Crim Just. (1-9 Credits)**

A. Individual investigations in criminal justice. Under the supervision of a faculty advisor. Student must have the independent study proposal form approved by faculty supervisor and the criminal justice graduate program coordinator in the College of Justice and Safety prior to enrollment. May be retaken up to a maximum of nine hours.

**CRJ 898. Thesis I. (3 Credits)**

A. This course orients students toward the production of a proposal suitable for a thesis.

**CRJ 899. Thesis II. (3 Credits)**

A. Entails an oral presentation and defense of thesis.

## Criminal Justice Policy and Leadership, Master of Science (M.S.)

Dr. Peter Kraska  
Graduate Program Coordinator

### General Information

Graduates of the program are expected to demonstrate advanced-level critical and analytical thinking; to apply principles from multiple academic disciplines to problems in criminal justice, adult corrections, juvenile justice, and policing in an effort to formulate creative solutions and to respect, evaluate, and synthesize information from diverse sources, while maintaining a critical focus on issues such as mass incarceration, social injustice, race and gender dynamics, as well as examining alternative

approaches to leadership and administration, policy research/analysis, and qualitative/quantitative research methods. A central goal is to develop the student's leadership/communication/critical thinking skills in order to improve their administrative effectiveness. Further, graduates are required to show competency in the following areas:

1. the historical, theoretical, and legal foundations of the field;
2. the methods of gathering and analyzing information for research purposes;
3. knowledge of the major bases of literature; and
4. the ability to function responsively in leadership positions within criminal justice, adult corrections, juvenile justice, and policing agencies.

### Admission Requirements

Applicants must:

1. meet the requirements of the Graduate School;
2. hold a baccalaureate degree from an accredited institution;
3. have achieved an undergraduate grade point average (GPA) of 3.0 overall or 3.25 in the last 60 hours of the baccalaureate program;
4. have achieved Graduate Record Examination (GRE) score of 146 or above on Verbal, 140 or above on the Quantitative and 4.0 or above on the Analytical Writing portions of the GRE; and
5. submit the email addresses of two qualified recommenders when completing the application.

Students who have an overall undergraduate GPA of 3.0 or higher and/or previously earned advanced degrees including, but not limited to M.S., M.B.A., J.D. or other recognized graduate degrees from an accredited university will be exempt from the GRE requirement. Applicants who do not meet these GPA or GRE requirements, but who otherwise demonstrate promise for successful graduate study, may be granted probationary admission, but such applicants must comply with all requirements of the Graduate School regarding probationary admission. The Master of Science in Criminal Justice Policy and Leadership must be completed online. Contact the Graduate Program Coordinator for additional details.

### Program Requirements

CIP Code: 43.0104

A minimum of 30 semester hours of graduate credit is required. A maximum of nine hours of approved, outside credit may be transferred to this degree program. All outside credit must be approved by the Department Graduate Committee.

### Cross Listed Courses

Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

Code	Title	Hours
<b>Core Courses</b>		
CPL 809	Pro/Policy Eval and Analysis	3
CPL 810	Criminological Theory for Policy & Leadership	3
CPL 818	Rsrch Mthds Jstc Plcy and Ldrs	3
CPL 835	Adv Jus Admin and Leadership	3
<b>Electives</b>		

Choose from 15 hours of the following: 15

CPL 802	Violence Against Women
CPL 812	Lead w Pol, Eth, and Emo Intel
CPL 814	Policing and Society
CPL 820	Issues in Juv Instit/Com Cor
CPL 823	Topics: Just Policy and Lead
CPL 828	MH/Sub Abuse Issues in Cor Stg
CPL 830	Understanding Corr/Juv Just In
CPL 839	Co-op: Justice Policy and Lead <sup>1</sup>
CPL 840	Adult Corrections
CPL 850	Corr & Juv Just Interventions
CPL 856	Law/Ethics in Dealing with Off
CPL 860	Advanced Organizational Theory
CPL 862	Race, Identity & Policing
CPL 864	Comparative & Intl Policing
CPL 875	Crime and Public Policy
CPL 897	Independent Study <sup>1</sup>
Approved electives	

**Exit Requirements**

CPL 878	Capstne Applied Resrch Project	3
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**Total Hours** 30

<sup>1</sup>

No more than six hours total may be applied to a degree from CPL 839 Co-op: Justice Policy and Lead and CPL 897 Independent Study (singularly or combined).

## Exit Requirements

### Capstone Applied Research Project - Prerequisites

Complete all core courses and be in the last semester of coursework prior to graduation. Candidates are required to satisfactorily complete applied research project (CPL 878 Capstne Applied Resrch Project) before they are eligible to graduate from the program.

## Criminology and Criminal Justice, Master of Science (M.S.)

Dr. Judah Schept, Graduate Program Coordinator

## General Information

Objectives of the graduate program are based upon the assumption that social policy, decision-making, and reform in modern society require a broad academic experience and innovative thinking, including theoretical foundations of the discipline, appropriate research methods, and principles applicable to the administration of justice.

A major focus is to demonstrate that problems of both a public and private nature associated with crime and delinquency must be viewed as social problems rather than isolated problems. It is therefore expected that graduates will be:

1. conversant with the theoretical and legal principles implicit in criminology and criminal justice;
2. knowledgeable of the essential research contributions in the discipline;

3. capable of research and data analysis appropriate to the discipline; and
4. competent to assume policy-making, research and instructional responsibilities in criminology and criminal justice.

## Admission Requirements

Students seeking clear admission should (a) meet the requirements of the Graduate School, and; (b) hold a baccalaureate degree from an accredited institution of higher learning with a 3.0 grade point average (GPA). Students who have obtained a cumulative 3.0 GPA or those who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate degrees from an accredited university will be exempt from the Graduate Record Examination (GRE) requirement. Students who do not have a cumulative 3.0 undergraduate GPA will be required to acquire a target score in three categories of the GRE: Verbal 146, Quantitative 140, and Analytical Writing 4.0.

## Program Requirements

CIP Code: 43.0103

A minimum of 36 semester hours of graduate credit is required. The following courses are required of all students:

Code	Title	Hours
CRJ 800	Advanced Crimi Justice Studies	3
CRJ 808	Analysis of Crimi Justice Data	3
or CRJ 875	Crime and Public Policy	
CRJ 888	Research Methods in Crim Just	3

## Graduate Course Credit

All 700 level courses have undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

## Cross Listed Courses

Some courses are offered under different prefixes with the same course content. Students will not be awarded credit for any course for which they have previously received credit under a cross listed prefix.

## Curriculum for the General Program

Code	Title	Hours
<b>Core Courses</b>		
CRJ 800	Advanced Crimi Justice Studies	3
CRJ 870	Theories of Crime & Crim Just	3
CRJ 888	Research Methods in Crim Just	3
CRJ 808	Analysis of Crimi Justice Data	3
or CRJ 875	Crime and Public Policy	
<b>Electives</b>		
Choose from eight of the following electives or six electives plus Thesis:		24
CRJ 801	History of Criminal Justice	
CRJ 802	Violence Against Women	
CRJ 810	Advanced Police Administration	

CRJ 813	Analysis of Police Operations
CRJ 814	Policing and Society
CRJ 815	Policing Global Insecurity
CRJ 840	Punishment and Society
CRJ 842	Human Rights & Justice
CRJ 843	Adv Issues in Criminal Law
CRJ 844	Innocence Project Externship
CRJ 846	Legal Issues in Crim Just Admi
CRJ 871	Crime, Victims and Criminals
CRJ 872	The Community Context of Crime
CRJ 873	Social Construction of Crime
CRJ 874	Crime, Criminal Jus & Pop Cult
CRJ 876	Organizational Crime
CRJ 877	Postmodernism and Justice
CRJ 878	Ideology and Criminal Justice
CRJ 879	Vice and Criminal Justice
CRJ 889	Qualitative Research Methods
CRJ 890	Topical Seminar in Crim Just
CRJ 897	Independent Study in Crim Just <sup>1</sup>

**Exit Requirements**

Choose from one of the following: 0

GRD 897B MS Crim Justice Written Comp (Non-Thesis)

GRD 898C MS Crim Justice Thesis Defense (Thesis)

**Total Hours** 36

1

Course work for CRJ 897 Independent Study in Crim Just should be arranged and no more than nine hours will be applied toward the degree.

## Exit Requirements

- **Thesis** – A thesis is optional in this program. GRD 898C MS Crim Justice Thesis Defense required if thesis is chosen.
- **Comprehensive Examination** – Students in the non-thesis option are required to pass a written comprehensive examination (GRD 897B MS Crim Justice Written Comp). Students in the thesis option are required to pass an oral comprehensive examination in defense of the thesis (GRD 898C MS Crim Justice Thesis Defense).

# School of Safety, Security, and Emergency Management

Dr. Tom Schneid, Chair and Interim Graduate Program Coordinator  
Stratton Building, Room 253  
(859) 622-2382

## Master's

- Safety, Security, and Emergency Management, Master of Science with a Concentration in Construction Safety (M.S.) (p. 749)
- Safety, Security, and Emergency Management, Master of Science with a Concentration in Corporate Security Operations (M.S.) (p. 750)
- Safety, Security, and Emergency Management, Master of Science with a Concentration in Emergency Management and Disaster Resilience (M.S.) (p. 752)
- Safety, Security, and Emergency Management, Master of Science with a Concentration in General (M.S.) (p. 753)

- Safety, Security, and Emergency Management, Master of Science with a Concentration in Healthcare Safety (M.S.) (p. 754)
- Safety, Security, and Emergency Management, Master of Science with a Concentration in Occupational Safety (M.S.) (p. 755)
- Safety, Security, and Emergency Management, Master of Science with a Concentration in Safety Leadership and Management (M.S.) (p. 756)
- Safety, Security, and Emergency Management, Master of Science with a Concentration in Supply Chain Safety and Security (M.S.) (p. 757)

## Certificate

- Construction Safety, Certificate (p. 749)
- Corporate Security Operations, Certificate (p. 749)
- Emergency Management and Disaster Resilience, Certificate (p. 749)
- Healthcare Safety, Certificate (p. 749)
- Occupational Safety, Certificate (p. 749)
- Safety Leadership and Management, Certificate (p. 749)
- Supply Chain Safety and Security, Certificate (p. 758)

## Courses

### Homeland Security

**HLS 800. HLS and Emergency Management. (3 Credits)**

A. Organization, missions and critical issues in US homeland security and emergency management. Focuses on developing professional skills in critical thinking, policy analysis and ethics.

**HLS 810. Infrastructure Protec and Risk. (3 Credits)**

A. Foundations for providing security and resilience to the nation's critical infrastructure with an emphasis on risk management.

**HLS 820. Security Intelligence. (3 Credits)**

A. Principles of security intelligence and applications to private sector security, risk, and resilience efforts as well as operational models in an effort to safeguard physical, cyber, and human assets and to enable informed decision-making.

**HLS 830. Long-Term Disaster Resilience. (3 Credits)**

A. Explores disaster trends and problems, as well as community wide mitigation and preparedness strategies aimed at reducing the impacts of natural hazards and achieving long-term disaster resilience.

**HLS 831. Unconventional Threats and Res. (3 Credits)**

A. Formerly SSE 831. The course addresses concepts, theories, laws and authorities, principles, programs, and requirements associated with unconventional threats to our nation that most likely would result in mass casualties and pose large-scale responses and cascading threats.

**HLS 835. Intergov Rltns in Disaster Mgt. (3 Credits)**

A. Analysis of intergovernmental relations and disaster policies across all phases of emergency management with a focus on disaster response and recovery. Systems are investigated through critical thinking, case studies, and comparative analysis methodologies.

**HLS 850. Foundations of Cybersecurity M. (3 Credits)**

A. Identification and application of private sector cybersecurity management principles as well as the analysis and application of national cybersecurity policies and frameworks. Concentration on cyber intrusion prevention, response and recovery from a management perspective.

## Safety, Security, and Emergency Management

### SSE 801. MS SSEM Academic Orientation. (0 Credits)

Academic orientation for the SSEM Graduate Program. This course will address the college experience at the graduate level and assist the student in building skills and competencies for academic success in the program.

### SSE 815. SSE Administration. (3 Credits)

A. Prerequisite: departmental approval. Examination of administrative concepts and principles regarding organizing and managing the functional areas of fire, safety, and security. Development of organizational and administrative structure to include policy formulation, goals and objectives, managerial tasks, and impact evaluations within an encompassing safety, security, and emergency framework.

### SSE 822. Workers Compensation/Labor Law. (3 Credits)

A. Prerequisite: departmental approval. Comprehensive study of workers compensation and regulations; National Labor Relations Act; Title VII; A.D.E.A.; and other relevant laws applicable to the functional areas of safety, security, and emergency services.

### SSE 826. Emergency Prep/Response. (3 Credits)

A. Prerequisite: departmental approval. In-depth study of the planning process, program development, training methods, etc., for response to man-made and natural emergencies/disasters for both private and public entities.

### SSE 827. Issues in Security Management. (3 Credits)

A. Prerequisite: departmental approval. Survey of salient issues and concerns confronting security managers. Examines the application and contribution of various management concepts and philosophies to assets protection issues such as information security, personnel protection, threat analysis, technological adaptation, and resource allocation.

### SSE 828. Industrial Safety Management. (3 Credits)

A. Prerequisite: departmental approval. Investigation and analysis of hazard control principles relating to the management of personnel, facilities, and equipment, including control procedures, work-task analysis, risk identification and countermeasures, safety training, and pertinent safety management techniques.

### SSE 830. Organizational Continuity. (3 Credits)

Organizational continuity will be discussed using the phases of emergency response, crisis management, and recovery. This course addresses value added activity of planning for catastrophic events and critical factors in restoring operational activity.

### SSE 831. Evltn of Emrgncy Management. (3 Credits)

Current practice of emergency management evolved through governmental reactions to disasters that helped shape current emergency management practices, policy, administrative changes and historical context for the changes.

### SSE 832. Construction Safety. (3 Credits)

A. Prerequisite: departmental approval. Introduction/ analysis of general construction safety utilizing the key components of 29 CFR 196. Included in this study will be general safety & health provisions of OSH Act and a review of the various subparts of 29 CFR 1926.

### SSE 833. Legislation & Regulatory Comp. (3 Credits)

A. Prerequisite: departmental approval. Comprehensive study and analysis of federal/state regulations and legislation such as OSHA, EPA, etc., which mandate compliance with certain safety, health, and environmental conditions and practices relating to work performed in occupational, industrial, and comparable settings.

### SSE 834. Corporate Compliance. (3 Credits)

A. Prerequisite: departmental approval. The assessment, analysis and development of safety, emergency management, security and environmental compliance programs. This course will address the regulatory requirements and best business practices for each of the compliance areas.

### SSE 835. Advanced Construction Safety. (3 Credits)

A. Prerequisite/co-requisite: SSE 832. A more detailed examination of 29 CFR 1926 including: PPE; Electrical; Scaffolding; Fall Protection; Cranes; Excavation; Steel Erection; Confined Spaces; and Residential Construction.

### SSE 839. Appl Lrn: Safe.Sec.Emer.Mngmt. (0.5-6 Credits)

A. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

### SSE 839A. Cooperative Study. (0.5-6 Credits)

A. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

### SSE 839B. Cooperative Study. (0.5-6 Credits)

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

### SSE 839C. Cooperative Study. (0.5-6 Credits)

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

### SSE 839D. Cooperative Study. (0.5-6 Credits)

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

### SSE 839E. Cooperative Study. (0.5-6 Credits)

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

### SSE 839F. Cooperative Study. (0.5-6 Credits)

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839G. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839H. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839I. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839J. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839K. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839L. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 840. Tech Construction Safety Mgmt. (3 Credits)**

A. Prerequisite/co-requisite: SSE 832 and 835. Students will be presented with case studies and will be expected to prepare investigation reports, countermeasure plans, and strategic plans in order to counter and prevent future occurrences.

**SSE 841. Appl Study: Safe.Sec.Emer.Mgmt. (3 Credits)**

A. Prerequisite: departmental approval. Supervised study in loss prevention setting to provide the student an opportunity to synthesize theory and on-the-job situations. Individual conferences.

**SSE 842. Safety Ethics. (3 Credits)**

A. Addressed are fundamental concepts of ethics and ethical practice for safety professionals. Issues/topics include the central role of ethics, reaching agreement, cheating/free riding, and dilemmas faced by the safety professional.

**SSE 843. HR & Change Mgmt for Sfty Pros. (3 Credits)**

A. An analysis of human resource laws and employment issues impacting the safety function including ADA, Title VII and Pregnancy Discrimination Act. Assessment of new/pending legislation and regulations impacting the safety and employment functions.

**SSE 845. Personal/Environmental Hazards. (3 Credits)**

A. Prerequisite: departmental approval. Analysis and investigation of hazard and threat control principles relating to personal and environmental risks within the workplace. Investigation techniques, inspection methodologies, management techniques, and prevention programs essential to the manager within the safety, fire, and security functions are emphasized.

**SSE 850. Ergonomics & Human Factors. (3 Credits)**

A. The assessment and analysis of ergonomic risk factors, identification of known musculoskeletal disorders, and development of effective ergonomic management techniques and compliance programs.

**SSE 856. Global Supply Chain Operations. (3 Credits)**

A. Supply chains are increasing in size, scope, and complexity. This course considers the fundamentals of Global Supply Chain Management through the lenses of safety and security.

**SSE 857. Global Supply Chain Risk & Res. (3 Credits)**

A. Understanding and evaluating risk and resiliency are essential to ensuring a secure, dependable global supply chain. This course explores risk assessment strategies, modeling, and mitigation approaches used in reducing global supply chain vulnerability.

**SSE 860. Injury Management. (3 Credits)**

(3) Injury Management will review practical activities employers should engage to effectively manage injury/illness claims. Transitional return to work and OSHA recordkeeping associated with managing work related injuries.

**SSE 865. SSE Auditing. (3 Credits)**

A. Prerequisite: departmental approval. Theory and application of auditing in safety, fire, and security. Comprehensive study of risk/threat exposure and assessment.

**SSE 866. Spcl Topics Healthcare Safety. (3 Credits)**

A. This course, utilizing case studies and readings, will focus on current events, risks and threats to the healthcare delivery system, special safety issues, and emergency management related to the safety of healthcare facilities.

**SSE 867. Safety/Security Across Health. (3 Credits)**

A. This course introduces the healthcare continuum, focusing on the hospital/medical center environment. Ancillary and specialty services, including the 17 healthcare service types addressed in the CMS Final Rule for Emergency Preparedness, will be addressed.

**SSE 870. Principles of School Safety. (3 Credits)**

A. Examines a range of school and community crime prevention and safety strategies and assesses their effectiveness. In addition, students will be required to develop a school and community prevention and safety plan.

**SSE 880. SSE Research/Planning. (3 Credits)**

A. Prerequisites: APS 465 or equivalent statistics course and departmental approval. Models and applications of research design and planning in safety, security, emergency services and assets protection. Identification and evaluation of problems, information and data interpretation, and research/planning methodologies for contemporary approaches to proactive safety, security, and emergency services.

**SSE 885. Quantitative Analysis in SSEM. (3 Credits)**

(3) A. Addresses issues related to SSEM management by developing a systematic approach for evaluating evidence. Reviews study design, measure of associations, confounding, interaction, sources of bias and error, and quantitative analysis and its role in SSEM.

**SSE 890. Topical Seminar. (3 Credits)**

A. Prerequisite: advisor/departmental approval. Designed to explore specific, contemporary aspects of safety, security, and emergency services. May be retaken to a maximum of six hours provided topic is different each time.

**SSE 896. SSEM Capstone. (3 Credits)**

I, II and A. Prerequisite: Completion of 30 hours in MSSSEM or department approval. Final research project and presentation; Students will collect, analyze, interpret and assemble data and conclusions related to issues in SSEM.

**SSE 897. Independent Study. (3 Credits)**

A. Prerequisite: departmental approval. Designed for graduate students who have demonstrated the ability to conduct individual research relating to loss prevention and safety. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

## Construction Safety, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
SSE 832	Construction Safety	3
SSE 835	Advanced Construction Safety	3
SSE 840	Tech Construction Safety Mgmt	3
SSE 845	Personal/Environmental Hazards	3
<b>Total Hours</b>		<b>12</b>

## Corporate Security Operations, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
HLS 810	Infrastructure Protec and Risk	3
HLS 820	Security Intelligence	3
HLS 850	Foundations of Cybersecurity M	3
SSE 827	Issues in Security Management	3
<b>Total Hours</b>		<b>12</b>

## Emergency Management and Disaster Resilience, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
HLS 810	Infrastructure Protec and Risk	3
HLS 830	Long-Term Disaster Resilience	3
HLS 831	Unconventional Threats and Res	3
HLS 835	Intergov Rltns in Disaster Mgt	3
<b>Total Hours</b>		<b>12</b>

## Healthcare Safety, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
SSE 827	Issues in Security Management	3
SSE 834	Corporate Compliance	3
SSE 866	Spcl Topics Healthcare Safety	3
SSE 867	Safety/Security Across Health	3
<b>Total Hours</b>		<b>12</b>

## Occupational Safety, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
SSE 828	Industrial Safety Management	3
SSE 832	Construction Safety	3
SSE 834	Corporate Compliance	3
SSE 845	Personal/Environmental Hazards	3
<b>Total Hours</b>		<b>12</b>

## Safety Leadership and Management, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
SSE 815	SSE Administration	3
SSE 833	Legislation & Regulatory Comp	3
SSE 842	Safety Ethics	3
SSE 843	HR & Change Mgmt for Sfty Pros	3
<b>Total Hours</b>		<b>12</b>

## Safety, Security, and Emergency Management, Master of Science with a Concentration in Construction Safety (M.S.)

### General Information

The School of Safety, Security, and Emergency Management offers the Master of Science degree in Safety, Security, and Emergency Management. The M.S. degree program is designed to provide students with a broad background in safety, security, and emergency management, in addition to the option for more in-depth knowledge of at least one area of Occupational Safety, Corporate Security Operations, Emergency Management, and Disaster Resilience, Healthcare Safety, Construction Safety, Safety Leadership and Management, and Supply Chain Safety and Security. The program is directed to preparing students for responsible careers in safety, security, and emergency management. Students are prepared to draw logically sound conclusions, to think creatively, to communicate effectively, and to appreciate the role and responsibilities

of the safety, security, and emergency management administration/ professionals.

The objectives of the graduate Safety, Security, and Emergency Management program are:

1. To provide a broad based program that affords the depth of education, the specialized skills, and the sense of creativity that will allow the graduate to practice in and contribute to the field of safety, security, and emergency management.
2. To provide an avenue for a highly mobile and marketable career to individuals wishing to pursue graduate education in the Safety, Security and Emergency Management discipline.
3. To add to the body of knowledge through scholarly activity, research, and advanced professional training.
4. To provide safety, security, and emergency management practitioners with leadership skills needed for the planning and delivery of loss prevention and safety services at the state, regional, and national levels.

## Admission Requirements

Students seeking clear admission should hold a baccalaureate degree from an accredited institution of higher learning with a 2.5 grade point average overall. Students with an undergraduate grade point below 2.5 may be considered for Probationary Admission but are required to sit for the Graduate Record Examination (GRE) and acquire a target score in three categories: Verbal 149, Quantitative 141 and Analytical Writing 3.0. Students who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate degrees from an accredited university will be exempt from the GRE requirement.

Applicants without an academic and/or experiential background in a related discipline or field of study including, but not limited to: occupational safety, security, fire, homeland security, emergency management, emergency medical, insurance, and risk management may be accepted into the program with departmental approval. When deficiencies are deemed to exist, applicants may be required to satisfy all designated deficiencies prior to admission to candidacy. Students must also meet general requirements of the EKV Graduate School.

### Online Learning Option

The Master of Science degree in Safety, Security and Emergency Management is offered online. The M.S. degree program also offers classes each semester online including options in Corporate Security Operations, Emergency Management and Disaster Resilience, Occupational Safety, Construction Safety, Healthcare Safety, Supply Chain Safety and Security, and Safety Leadership and Management.

## Program Requirements

CIP Code: 43.9999

Code	Title	Hours
<b>Core Courses</b>		
SSE 815	SSE Administration	3
SSE 826	Emergency Prep/Response	3
SSE 827	Issues in Security Management	3
SSE 833	Legislation & Regulatory Comp	3
SSE 865	SSE Auditing	3
SSE 880	SSE Research/Planning	3

<b>Concentrations</b>	
Students must select one of the following Concentrations:	9-12
<b>General Concentration</b>	
Emergency Management and Disaster Resilience	
<b>Corporate Security Operations</b>	
Occupational Safety	
<b>Construction Safety</b>	
Healthcare Safety	
<b>Safety Leadership and Management</b>	
Supply Chain Safety and Security	
<b>Exit Requirements</b>	
Choose from one of the following:	6
<b>Comprehensive Examination</b>	
Choose from six hours of 800-level SSE/HLS electives	
GRD 897C	MS SSEM Written Comp Exam
<b>Capstone Applied Research Project</b>	
Choose from three hours of 800-level SSE/HLS service	
SSE 896	SSEM Capstone

**Total Hours** **33-36**

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
SSE 832	Construction Safety	3
SSE 835	Advanced Construction Safety	3
SSE 840	Tech Construction Safety Mgmt	3
SSE 845	Personal/Environmental Hazards	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

Select one of the two options below:

1. **Comprehensive Examination** – Prerequisites: Candidate must have completed all core classes before scheduling to sit for the comprehensive examination. Candidate shall perform satisfactorily on the written comprehensive examination on their program of study and primarily focused on the core program requirements.
2. **Capstone Applied Research Project** – Prerequisites: Completion of 30 hours in MSSEM and SSE 880 SSE Research/Planning or department approval. Students must earn a grade of “A” or “B” in order to satisfactorily pass the Capstone. A lower grade will result in the student being given only one additional opportunity to pass the Capstone within one year following an unsatisfactory grade.

# Safety, Security, and Emergency Management, Master of Science with a Concentration in Corporate Security Operations (M.S.)

## General Information

The School of Safety, Security, and Emergency Management offers the Master of Science degree in Safety, Security, and Emergency Management. The M.S. degree program is designed to provide students

with a broad background in safety, security, and emergency management, in addition to the option for more in-depth knowledge of at least one area of Occupational Safety, Corporate Security Operations, Emergency Management, and Disaster Resilience, Healthcare Safety, Construction Safety, Safety Leadership and Management, and Supply Chain Safety and Security. The program is directed to preparing students for responsible careers in safety, security, and emergency management. Students are prepared to draw logically sound conclusions, to think creatively, to communicate effectively, and to appreciate the role and responsibilities of the safety, security, and emergency management administration/professionals.

The objectives of the graduate Safety, Security, and Emergency Management program are:

1. To provide a broad based program that affords the depth of education, the specialized skills, and the sense of creativity that will allow the graduate to practice in and contribute to the field of safety, security, and emergency management.
2. To provide an avenue for a highly mobile and marketable career to individuals wishing to pursue graduate education in the Safety, Security and Emergency Management discipline.
3. To add to the body of knowledge through scholarly activity, research, and advanced professional training.
4. To provide safety, security, and emergency management practitioners with leadership skills needed for the planning and delivery of loss prevention and safety services at the state, regional, and national levels.

## Admission Requirements

Students seeking clear admission should hold a baccalaureate degree from an accredited institution of higher learning with a 2.5 grade point average overall. Students with an undergraduate grade point below 2.5 may be considered for Probationary Admission but are required to sit for the Graduate Record Examination (GRE) and acquire a target score in three categories: Verbal 149, Quantitative 141 and Analytical Writing 3.0. Students who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate degrees from an accredited university will be exempt from the GRE requirement.

Applicants without an academic and/or experiential background in a related discipline or field of study including, but not limited to: occupational safety, security, fire, homeland security, emergency management, emergency medical, insurance, and risk management may be accepted into the program with departmental approval. When deficiencies are deemed to exist, applicants may be required to satisfy all designated deficiencies prior to admission to candidacy. Students must also meet general requirements of the EKU Graduate School.

### Online Learning Option

The Master of Science degree in Safety, Security and Emergency Management is offered online. The M.S. degree program also offers classes each semester online including options in Corporate Security Operations, Emergency Management and Disaster Resilience, Occupational Safety, Construction Safety, Healthcare Safety, Supply Chain Safety and Security, and Safety Leadership and Management.

## Program Requirements

CIP Code: 43.9999

Code	Title	Hours
<b>Core Courses</b>		
SSE 815	SSE Administration	3
SSE 826	Emergency Prep/Response	3
SSE 827	Issues in Security Management	3
SSE 833	Legislation & Regulatory Comp	3
SSE 865	SSE Auditing	3
SSE 880	SSE Research/Planning	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-12
General Concentration		
Emergency Management and Disaster Resilience		
Corporate Security Operations		
Occupational Safety		
Construction Safety		
Healthcare Safety		
Safety Leadership and Management		
Supply Chain Safety and Security		
<b>Exit Requirements</b>		
Choose from one of the following:		6
<i>Comprehensive Examination</i>		
Choose from six hours of 800-level SSE/HLS electives		
GRD 897C	MS SSEM Written Comp Exam	
<i>Capstone Applied Research Project</i>		
Choose from three hours of 800-level SSE/HLS service		
SSE 896	SSEM Capstone	
<b>Total Hours</b>		<b>33-36</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
HLS 810	Infrastructure Protec and Risk	3
HLS 820	Security Intelligence	3
HLS 850	Foundations of Cybersecurity M	3
SSE 827	Issues in Security Management	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

Select one of the two options below:

1. **Comprehensive Examination** – Prerequisites: Candidate must have completed all core classes before scheduling to sit for the comprehensive examination. Candidate shall perform satisfactorily on the written comprehensive examination on their program of study and primarily focused on the core program requirements.
2. **Capstone Applied Research Project** – Prerequisites: Completion of 30 hours in MSSEM and SSE 880 SSE Research/Planning or department approval. Students must earn a grade of "A" or "B" in order to satisfactorily pass the Capstone. A lower grade will result in the student being given only one additional opportunity to pass the Capstone within one year following an unsatisfactory grade.

# Safety, Security, and Emergency Management, Master of Science with a Concentration in Emergency Management and Disaster Resilience (M.S.)

## General Information

The School of Safety, Security, and Emergency Management offers the Master of Science degree in Safety, Security, and Emergency Management. The M.S. degree program is designed to provide students with a broad background in safety, security, and emergency management, in addition to the option for more in-depth knowledge of at least one area of Occupational Safety, Corporate Security Operations, Emergency Management, and Disaster Resilience, Healthcare Safety, Construction Safety, Safety Leadership and Management, and Supply Chain Safety and Security. The program is directed to preparing students for responsible careers in safety, security, and emergency management. Students are prepared to draw logically sound conclusions, to think creatively, to communicate effectively, and to appreciate the role and responsibilities of the safety, security, and emergency management administration/professionals.

The objectives of the graduate Safety, Security, and Emergency Management program are:

1. To provide a broad based program that affords the depth of education, the specialized skills, and the sense of creativity that will allow the graduate to practice in and contribute to the field of safety, security, and emergency management.
2. To provide an avenue for a highly mobile and marketable career to individuals wishing to pursue graduate education in the Safety, Security and Emergency Management discipline.
3. To add to the body of knowledge through scholarly activity, research, and advanced professional training.
4. To provide safety, security, and emergency management practitioners with leadership skills needed for the planning and delivery of loss prevention and safety services at the state, regional, and national levels.

## Admission Requirements

Students seeking clear admission should hold a baccalaureate degree from an accredited institution of higher learning with a 2.5 grade point average overall. Students with an undergraduate grade point below 2.5 may be considered for Probationary Admission but are required to sit for the Graduate Record Examination (GRE) and acquire a target score in three categories: Verbal 149, Quantitative 141 and Analytical Writing 3.0. Students who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate degrees from an accredited university will be exempt from the GRE requirement.

Applicants without an academic and/or experiential background in a related discipline or field of study including, but not limited to: occupational safety, security, fire, homeland security, emergency management, emergency medical, insurance, and risk management may be accepted into the program with departmental approval. When deficiencies are deemed to exist, applicants may be required to satisfy all

designated deficiencies prior to admission to candidacy. Students must also meet general requirements of the ECU Graduate School.

## Online Learning Option

The Master of Science degree in Safety, Security and Emergency Management is offered online. The M.S. degree program also offers classes each semester online including options in Corporate Security Operations, Emergency Management and Disaster Resilience, Occupational Safety, Construction Safety, Healthcare Safety, Supply Chain Safety and Security, and Safety Leadership and Management.

## Program Requirements

CIP Code: 43.9999

Code	Title	Hours
<b>Core Courses</b>		
SSE 815	SSE Administration	3
SSE 826	Emergency Prep/Response	3
SSE 827	Issues in Security Management	3
SSE 833	Legislation & Regulatory Comp	3
SSE 865	SSE Auditing	3
SSE 880	SSE Research/Planning	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-12
General Concentration		
Emergency Management and Disaster Resilience		
Corporate Security Operations		
Occupational Safety		
Construction Safety		
Healthcare Safety		
Safety Leadership and Management		
Supply Chain Safety and Security		
<b>Exit Requirements</b>		
Choose from one of the following:		6
<i>Comprehensive Examination</i>		
Choose from six hours of 800-level SSE/HLS electives		
GRD 897C	MS SSEM Written Comp Exam	
<i>Capstone Applied Research Project</i>		
Choose from three hours of 800-level SSE/HLS service		
SSE 896	SSEM Capstone	
<b>Total Hours</b>		<b>33-36</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
HLS 810	Infrastructure Protec and Risk	3
HLS 830	Long-Term Disaster Resilience	3
HLS 831	Unconventional Threats and Res	3
HLS 835	Intergov Rltns in Disaster Mgt	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

Select one of the two options below:

1. **Comprehensive Examination** – Prerequisites: Candidate must have completed all core classes before scheduling to sit for the comprehensive examination. Candidate shall perform satisfactorily on the written comprehensive examination on their program of study and primarily focused on the core program requirements.
2. **Capstone Applied Research Project** – Prerequisites: Completion of 30 hours in MSSEM and SSE 880 SSE Research/Planning or department approval. Students must earn a grade of "A" or "B" in order to satisfactorily pass the Capstone. A lower grade will result in the student being given only one additional opportunity to pass the Capstone within one year following an unsatisfactory grade.

## Safety, Security, and Emergency Management, Master of Science with a Concentration in General (M.S.)

### General Information

The School of Safety, Security, and Emergency Management offers the Master of Science degree in Safety, Security, and Emergency Management. The M.S. degree program is designed to provide students with a broad background in safety, security, and emergency management, in addition to the option for more in-depth knowledge of at least one area of Occupational Safety, Corporate Security Operations, Emergency Management, and Disaster Resilience, Healthcare Safety, Construction Safety, Safety Leadership and Management, and Supply Chain Safety and Security. The program is directed to preparing students for responsible careers in safety, security, and emergency management. Students are prepared to draw logically sound conclusions, to think creatively, to communicate effectively, and to appreciate the role and responsibilities of the safety, security, and emergency management administration/professionals.

The objectives of the graduate Safety, Security, and Emergency Management program are:

1. To provide a broad based program that affords the depth of education, the specialized skills, and the sense of creativity that will allow the graduate to practice in and contribute to the field of safety, security, and emergency management.
2. To provide an avenue for a highly mobile and marketable career to individuals wishing to pursue graduate education in the Safety, Security and Emergency Management discipline.
3. To add to the body of knowledge through scholarly activity, research, and advanced professional training.
4. To provide safety, security, and emergency management practitioners with leadership skills needed for the planning and delivery of loss prevention and safety services at the state, regional, and national levels.

### Admission Requirements

Students seeking clear admission should hold a baccalaureate degree from an accredited institution of higher learning with a 2.5 grade point average overall. Students with an undergraduate grade point below 2.5 may be considered for Probationary Admission but are required to sit for the Graduate Record Examination (GRE) and acquire a target score in three categories: Verbal 149, Quantitative 141 and Analytical Writing 3.0. Students who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate

degrees from an accredited university will be exempt from the GRE requirement.

Applicants without an academic and/or experiential background in a related discipline or field of study including, but not limited to: occupational safety, security, fire, homeland security, emergency management, emergency medical, insurance, and risk management may be accepted into the program with departmental approval. When deficiencies are deemed to exist, applicants may be required to satisfy all designated deficiencies prior to admission to candidacy. Students must also meet general requirements of the EKV Graduate School.

### Online Learning Option

The Master of Science degree in Safety, Security and Emergency Management is offered online. The M.S. degree program also offers classes each semester online including options in Corporate Security Operations, Emergency Management and Disaster Resilience, Occupational Safety, Construction Safety, Healthcare Safety, Supply Chain Safety and Security, and Safety Leadership and Management.

### Program Requirements

CIP Code: 43.9999

Code	Title	Hours
<b>Core Courses</b>		
SSE 815	SSE Administration	3
SSE 826	Emergency Prep/Response	3
SSE 827	Issues in Security Management	3
SSE 833	Legislation & Regulatory Comp	3
SSE 865	SSE Auditing	3
SSE 880	SSE Research/Planning	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-12
General Concentration		
Emergency Management and Disaster Resilience		
Corporate Security Operations		
Occupational Safety		
Construction Safety		
Healthcare Safety		
Safety Leadership and Management		
Supply Chain Safety and Security		
<b>Exit Requirements</b>		
Choose from one of the following:		6
<i>Comprehensive Examination</i>		
Choose from six hours of 800-level SSE/HLS electives		
GRD 897C	MS SSEM Written Comp Exam	
<i>Capstone Applied Research Project</i>		
Choose from three hours of 800-level SSE/HLS service		
SSE 896	SSEM Capstone	
<b>Total Hours</b>		<b>33-36</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 12 hours of the following:		12
HLS 800	HLS and Emergency Management	

HLS 810	Infrastructure Protec and Risk
HLS 820	Security Intelligence
HLS 830	Long-Term Disaster Resilience
HLS 831	Unconventional Threats and Res
HLS 835	Intergov Rltns in Disaster Mgt
HLS 850	Foundations of Cybersecurity M
SSE 820	
SSE 822	Workers Compensation/Labor Law
SSE 828	Industrial Safety Management
SSE 830	Organizational Continuity
SSE 832	Construction Safety
SSE 834	Corporate Compliance
SSE 835	Advanced Construction Safety
SSE 839	Appl Lrn: Safe.Sec.Emer.Mngmt
SSE 840	Tech Construction Safety Mgmt
SSE 841	Appl Study: Safe.Sec.Emer.Mgmt
SSE 845	Personal/Environmental Hazards
SSE 850	Ergonomics & Human Factors
SSE 856	Global Supply Chain Operations
SSE 857	Global Supply Chain Risk & Res
SSE 860	Injury Management
SSE 866	Spcl Topics Healthcare Safety
SSE 867	Safety/Security Across Health
SSE 880	SSE Research/Planning
SSE 890	Topical Seminar
SSE 897	Independent Study

Total Hours

12

## Exit Requirements

Select one of the two options below:

1. **Comprehensive Examination** – Prerequisites: Candidate must have completed all core classes before scheduling to sit for the comprehensive examination. Candidate shall perform satisfactorily on the written comprehensive examination on their program of study and primarily focused on the core program requirements.
2. **Capstone Applied Research Project** – Prerequisites: Completion of 30 hours in MSSEM and SSE 880 SSE Research/Planning or department approval. Students must earn a grade of “A” or “B” in order to satisfactorily pass the Capstone. A lower grade will result in the student being given only one additional opportunity to pass the Capstone within one year following an unsatisfactory grade.

# Safety, Security, and Emergency Management, Master of Science with a Concentration in Healthcare Safety (M.S.)

## General Information

The School of Safety, Security, and Emergency Management offers the Master of Science degree in Safety, Security, and Emergency Management. The M.S. degree program is designed to provide students with a broad background in safety, security, and emergency management,

in addition to the option for more in-depth knowledge of at least one area of Occupational Safety, Corporate Security Operations, Emergency Management, and Disaster Resilience, Healthcare Safety, Construction Safety, Safety Leadership and Management, and Supply Chain Safety and Security. The program is directed to preparing students for responsible careers in safety, security, and emergency management. Students are prepared to draw logically sound conclusions, to think creatively, to communicate effectively, and to appreciate the role and responsibilities of the safety, security, and emergency management administration/professionals.

The objectives of the graduate Safety, Security, and Emergency Management program are:

1. To provide a broad based program that affords the depth of education, the specialized skills, and the sense of creativity that will allow the graduate to practice in and contribute to the field of safety, security, and emergency management.
2. To provide an avenue for a highly mobile and marketable career to individuals wishing to pursue graduate education in the Safety, Security and Emergency Management discipline.
3. To add to the body of knowledge through scholarly activity, research, and advanced professional training.
4. To provide safety, security, and emergency management practitioners with leadership skills needed for the planning and delivery of loss prevention and safety services at the state, regional, and national levels.

## Admission Requirements

Students seeking clear admission should hold a baccalaureate degree from an accredited institution of higher learning with a 2.5 grade point average overall. Students with an undergraduate grade point below 2.5 may be considered for Probationary Admission but are required to sit for the Graduate Record Examination (GRE) and acquire a target score in three categories: Verbal 149, Quantitative 141 and Analytical Writing 3.0. Students who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate degrees from an accredited university will be exempt from the GRE requirement.

Applicants without an academic and/or experiential background in a related discipline or field of study including, but not limited to: occupational safety, security, fire, homeland security, emergency management, emergency medical, insurance, and risk management may be accepted into the program with departmental approval. When deficiencies are deemed to exist, applicants may be required to satisfy all designated deficiencies prior to admission to candidacy. Students must also meet general requirements of the EKU Graduate School.

## Online Learning Option

The Master of Science degree in Safety, Security and Emergency Management is offered online. The M.S. degree program also offers classes each semester online including options in Corporate Security Operations, Emergency Management and Disaster Resilience, Occupational Safety, Construction Safety, Healthcare Safety, Supply Chain Safety and Security, and Safety Leadership and Management.

## Program Requirements

CIP Code: 43.9999

Code	Title	Hours
<b>Core Courses</b>		
SSE 815	SSE Administration	3
SSE 826	Emergency Prep/Response	3
SSE 827	Issues in Security Management	3
SSE 833	Legislation & Regulatory Comp	3
SSE 865	SSE Auditing	3
SSE 880	SSE Research/Planning	3

**Concentrations**

Students must select one of the following Concentrations: 9-12

General Concentration
Emergency Management and Disaster Resilience
Corporate Security Operations
Occupational Safety
Construction Safety
Healthcare Safety
Safety Leadership and Management
Supply Chain Safety and Security

**Exit Requirements**

Choose from one of the following: 6

*Comprehensive Examination*

Choose from six hours of 800-level SSE/HLS electives
GRD 897C MS SSEM Written Comp Exam

*Capstone Applied Research Project*

Choose from three hours of 800-level SSE/HLS service
SSE 896 SSEM Capstone

**Total Hours** 33-36

**Concentration**

Code	Title	Hours
<b>Concentration Courses</b>		
SSE 834	Corporate Compliance	3
SSE 843	HR & Change Mgmt for Sfty Pros	3
SSE 866	Spcl Topics Healthcare Safety	3
SSE 867	Safety/Security Across Health	3
<b>Total Hours</b>		12

**Exit Requirements**

Select one of the two options below:

- 1. Comprehensive Examination** – Prerequisites: Candidate must have completed all core classes before scheduling to sit for the comprehensive examination. Candidate shall perform satisfactorily on the written comprehensive examination on their program of study and primarily focused on the core program requirements.
- 2. Capstone Applied Research Project** – Prerequisites: Completion of 30 hours in MSSEM and SSE 880 SSE Research/Planning or department approval. Students must earn a grade of "A" or "B" in order to satisfactorily pass the Capstone. A lower grade will result in the student being given only one additional opportunity to pass the Capstone within one year following an unsatisfactory grade.

# Safety, Security, and Emergency Management, Master of Science with a Concentration in Occupational Safety (M.S.)

**General Information**

The School of Safety, Security, and Emergency Management offers the Master of Science degree in Safety, Security, and Emergency Management. The M.S. degree program is designed to provide students with a broad background in safety, security, and emergency management, in addition to the option for more in-depth knowledge of at least one area of Occupational Safety, Corporate Security Operations, Emergency Management, and Disaster Resilience, Healthcare Safety, Construction Safety, Safety Leadership and Management, and Supply Chain Safety and Security. The program is directed to preparing students for responsible careers in safety, security, and emergency management. Students are prepared to draw logically sound conclusions, to think creatively, to communicate effectively, and to appreciate the role and responsibilities of the safety, security, and emergency management administration/professionals.

The objectives of the graduate Safety, Security, and Emergency Management program are:

1. To provide a broad based program that affords the depth of education, the specialized skills, and the sense of creativity that will allow the graduate to practice in and contribute to the field of safety, security, and emergency management.
2. To provide an avenue for a highly mobile and marketable career to individuals wishing to pursue graduate education in the Safety, Security and Emergency Management discipline.
3. To add to the body of knowledge through scholarly activity, research, and advanced professional training.
4. To provide safety, security, and emergency management practitioners with leadership skills needed for the planning and delivery of loss prevention and safety services at the state, regional, and national levels.

**Admission Requirements**

Students seeking clear admission should hold a baccalaureate degree from an accredited institution of higher learning with a 2.5 grade point average overall. Students with an undergraduate grade point below 2.5 may be considered for Probationary Admission but are required to sit for the Graduate Record Examination (GRE) and acquire a target score in three categories: Verbal 149, Quantitative 141 and Analytical Writing 3.0. Students who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate degrees from an accredited university will be exempt from the GRE requirement.

Applicants without an academic and/or experiential background in a related discipline or field of study including, but not limited to: occupational safety, security, fire, homeland security, emergency management, emergency medical, insurance, and risk management may be accepted into the program with departmental approval. When deficiencies are deemed to exist, applicants may be required to satisfy all designated deficiencies prior to admission to candidacy. Students must also meet general requirements of the EKV Graduate School.

## Online Learning Option

The Master of Science degree in Safety, Security and Emergency Management is offered online. The M.S. degree program also offers classes each semester online including options in Corporate Security Operations, Emergency Management and Disaster Resilience, Occupational Safety, Construction Safety, Healthcare Safety, Supply Chain Safety and Security, and Safety Leadership and Management.

## Program Requirements

CIP Code: 43.9999

Code	Title	Hours
<b>Core Courses</b>		
SSE 815	SSE Administration	3
SSE 826	Emergency Prep/Response	3
SSE 827	Issues in Security Management	3
SSE 833	Legislation & Regulatory Comp	3
SSE 865	SSE Auditing	3
SSE 880	SSE Research/Planning	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-12
General Concentration		
Emergency Management and Disaster Resilience		
Corporate Security Operations		
Occupational Safety		
Construction Safety		
Healthcare Safety		
Safety Leadership and Management		
Supply Chain Safety and Security		
<b>Exit Requirements</b>		
Choose from one of the following:		6
<i>Comprehensive Examination</i>		
Choose from six hours of 800-level SSE/HLS electives		
GRD 897C	MS SSEM Written Comp Exam	
<i>Capstone Applied Research Project</i>		
Choose from three hours of 800-level SSE/HLS service		
SSE 896	SSEM Capstone	
<b>Total Hours</b>		<b>33-36</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
SSE 828	Industrial Safety Management	3
SSE 832	Construction Safety	3
SSE 834	Corporate Compliance	3
SSE 845	Personal/Environmental Hazards	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

Select one of the two options below:

1. **Comprehensive Examination** – Prerequisites: Candidate must have completed all core classes before scheduling to sit for the comprehensive examination. Candidate shall perform satisfactorily

on the written comprehensive examination on their program of study and primarily focused on the core program requirements.

2. **Capstone Applied Research Project** – Prerequisites: Completion of 30 hours in MSSEM and SSE 880 SSE Research/Planning or department approval. Students must earn a grade of "A" or "B" in order to satisfactorily pass the Capstone. A lower grade will result in the student being given only one additional opportunity to pass the Capstone within one year following an unsatisfactory grade.

## Safety, Security, and Emergency Management, Master of Science with a Concentration in Safety Leadership and Management (M.S.)

### General Information

The School of Safety, Security, and Emergency Management offers the Master of Science degree in Safety, Security, and Emergency Management. The M.S. degree program is designed to provide students with a broad background in safety, security, and emergency management, in addition to the option for more in-depth knowledge of at least one area of Occupational Safety, Corporate Security Operations, Emergency Management, and Disaster Resilience, Healthcare Safety, Construction Safety, Safety Leadership and Management, and Supply Chain Safety and Security. The program is directed to preparing students for responsible careers in safety, security, and emergency management. Students are prepared to draw logically sound conclusions, to think creatively, to communicate effectively, and to appreciate the role and responsibilities of the safety, security, and emergency management administration/professionals.

The objectives of the graduate Safety, Security, and Emergency Management program are:

1. To provide a broad based program that affords the depth of education, the specialized skills, and the sense of creativity that will allow the graduate to practice in and contribute to the field of safety, security, and emergency management.
2. To provide an avenue for a highly mobile and marketable career to individuals wishing to pursue graduate education in the Safety, Security and Emergency Management discipline.
3. To add to the body of knowledge through scholarly activity, research, and advanced professional training.
4. To provide safety, security, and emergency management practitioners with leadership skills needed for the planning and delivery of loss prevention and safety services at the state, regional, and national levels.

### Admission Requirements

Students seeking clear admission should hold a baccalaureate degree from an accredited institution of higher learning with a 2.5 grade point average overall. Students with an undergraduate grade point below 2.5 may be considered for Probationary Admission but are required to sit for the Graduate Record Examination (GRE) and acquire a target score in three categories: Verbal 149, Quantitative 141 and Analytical Writing 3.0. Students who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate

degrees from an accredited university will be exempt from the GRE requirement.

Applicants without an academic and/or experiential background in a related discipline or field of study including, but not limited to: occupational safety, security, fire, homeland security, emergency management, emergency medical, insurance, and risk management may be accepted into the program with departmental approval. When deficiencies are deemed to exist, applicants may be required to satisfy all designated deficiencies prior to admission to candidacy. Students must also meet general requirements of the EKU Graduate School.

## Online Learning Option

The Master of Science degree in Safety, Security and Emergency Management is offered online. The M.S. degree program also offers classes each semester online including options in Corporate Security Operations, Emergency Management and Disaster Resilience, Occupational Safety, Construction Safety, Healthcare Safety, Supply Chain Safety and Security, and Safety Leadership and Management.

## Program Requirements

CIP Code: 43.9999

Code	Title	Hours
<b>Core Courses</b>		
SSE 815	SSE Administration	3
SSE 826	Emergency Prep/Response	3
SSE 827	Issues in Security Management	3
SSE 833	Legislation & Regulatory Comp	3
SSE 865	SSE Auditing	3
SSE 880	SSE Research/Planning	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-12
General Concentration		
Emergency Management and Disaster Resilience		
Corporate Security Operations		
Occupational Safety		
Construction Safety		
Healthcare Safety		
Safety Leadership and Management		
Supply Chain Safety and Security		
<b>Exit Requirements</b>		
Choose from one of the following:		6
<i>Comprehensive Examination</i>		
Choose from six hours of 800-level SSE/HLS electives		
GRD 897C	MS SSEM Written Comp Exam	
<i>Capstone Applied Research Project</i>		
Choose from three hours of 800-level SSE/HLS service		
SSE 896	SSEM Capstone	
<b>Total Hours</b>		<b>33-36</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
SSE 815	SSE Administration	3
SSE 833	Legislation & Regulatory Comp	3

SSE 842	Safety Ethics	3
SSE 843	HR & Change Mgmt for Sfty Pros	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

Select one of the two options below:

- 1. Comprehensive Examination** – Prerequisites: Candidate must have completed all core classes before scheduling to sit for the comprehensive examination. Candidate shall perform satisfactorily on the written comprehensive examination on their program of study and primarily focused on the core program requirements.
- 2. Capstone Applied Research Project** – Prerequisites: Completion of 30 hours in MSSEM and SSE 880 SSE Research/Planning or department approval. Students must earn a grade of "A" or "B" in order to satisfactorily pass the Capstone. A lower grade will result in the student being given only one additional opportunity to pass the Capstone within one year following an unsatisfactory grade.

## Safety, Security, and Emergency Management, Master of Science with a Concentration in Supply Chain Safety and Security (M.S.)

### General Information

The School of Safety, Security, and Emergency Management offers the Master of Science degree in Safety, Security, and Emergency Management. The M.S. degree program is designed to provide students with a broad background in safety, security, and emergency management, in addition to the option for more in-depth knowledge of at least one area of Occupational Safety, Corporate Security Operations, Emergency Management, and Disaster Resilience, Healthcare Safety, Construction Safety, Safety Leadership and Management, and Supply Chain Safety and Security. The program is directed to preparing students for responsible careers in safety, security, and emergency management. Students are prepared to draw logically sound conclusions, to think creatively, to communicate effectively, and to appreciate the role and responsibilities of the safety, security, and emergency management administration/professionals.

The objectives of the graduate Safety, Security, and Emergency Management program are:

- To provide a broad based program that affords the depth of education, the specialized skills, and the sense of creativity that will allow the graduate to practice in and contribute to the field of safety, security, and emergency management.
- To provide an avenue for a highly mobile and marketable career to individuals wishing to pursue graduate education in the Safety, Security and Emergency Management discipline.
- To add to the body of knowledge through scholarly activity, research, and advanced professional training.
- To provide safety, security, and emergency management practitioners with leadership skills needed for the planning and delivery of loss prevention and safety services at the state, regional, and national levels.

## Admission Requirements

Students seeking clear admission should hold a baccalaureate degree from an accredited institution of higher learning with a 2.5 grade point average overall. Students with an undergraduate grade point below 2.5 may be considered for Probationary Admission but are required to sit for the Graduate Record Examination (GRE) and acquire a target score in three categories: Verbal 149, Quantitative 141 and Analytical Writing 3.0. Students who have previously earned advanced degrees including, but not limited to M.S., M.A., M.B.A., J.D. or other recognized graduate degrees from an accredited university will be exempt from the GRE requirement.

Applicants without an academic and/or experiential background in a related discipline or field of study including, but not limited to: occupational safety, security, fire, homeland security, emergency management, emergency medical, insurance, and risk management may be accepted into the program with departmental approval. When deficiencies are deemed to exist, applicants may be required to satisfy all designated deficiencies prior to admission to candidacy. Students must also meet general requirements of the ECU Graduate School.

### Online Learning Option

The Master of Science degree in Safety, Security and Emergency Management is offered online. The M.S. degree program also offers classes each semester online including options in Corporate Security Operations, Emergency Management and Disaster Resilience, Occupational Safety, Construction Safety, Healthcare Safety, Supply Chain Safety and Security, and Safety Leadership and Management.

## Program Requirements

CIP Code: 43.9999

Code	Title	Hours
<b>Core Courses</b>		
SSE 815	SSE Administration	3
SSE 826	Emergency Prep/Response	3
SSE 827	Issues in Security Management	3
SSE 833	Legislation & Regulatory Comp	3
SSE 865	SSE Auditing	3
SSE 880	SSE Research/Planning	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9-12
General Concentration		
Emergency Management and Disaster Resilience		
Corporate Security Operations		
Occupational Safety		
Construction Safety		
Healthcare Safety		
Safety Leadership and Management		
Supply Chain Safety and Security		
<b>Exit Requirements</b>		
Choose from one of the following:		6
<i>Comprehensive Examination</i>		
Choose from six hours of 800-level SSE/HLS electives		
GRD 897C	MS SSEM Written Comp Exam	
<i>Capstone Applied Research Project</i>		

Choose from three hours of 800-level SSE/HLS service

SSE 896 SSEM Capstone

**Total Hours** 33-36

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
HLS 820	Security Intelligence	3
SSE 834	Corporate Compliance	3
SSE 856	Global Supply Chain Operations	3
SSE 857	Global Supply Chain Risk & Res	3
<b>Total Hours</b>		12

## Exit Requirements

Select one of the two options below:

- 1. Comprehensive Examination** – Prerequisites: Candidate must have completed all core classes before scheduling to sit for the comprehensive examination. Candidate shall perform satisfactorily on the written comprehensive examination on their program of study and primarily focused on the core program requirements.
- 2. Capstone Applied Research Project** – Prerequisites: Completion of 30 hours in MSSEM and SSE 880 SSE Research/Planning or department approval. Students must earn a grade of "A" or "B" in order to satisfactorily pass the Capstone. A lower grade will result in the student being given only one additional opportunity to pass the Capstone within one year following an unsatisfactory grade.

## Supply Chain Safety and Security, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
HLS 820	Security Intelligence	3
SSE 834	Corporate Compliance	3
SSE 856	Global Supply Chain Operations	3
SSE 857	Global Supply Chain Risk & Res	3
<b>Total Hours</b>		12

## College of Letters, Arts and Social Sciences College of Letters, Arts & Social Sciences (CLASS)

Dr. Mercy Cannon, Dean  
Roark 103  
(859) 622-2222

Dr. John Bowes, Associate Dean  
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## Department of English

Dr. James Keller, Chair  
 Dr. Gerald Nachtwey, MA Program Coordinator/Advisor  
 Prof. Robert Dean Johnson, MFA Program Director/Advisor

www.english.eku.edu (<http://www.english.eku.edu>)  
 (859) 622-5861

### General Information

The Department of English offers a 30-hour program of study leading to the Master of Arts degree in English. The Department of English also offers a 48-hour program of study leading to the Master of Fine Arts in Creative Writing (MFA-CW) degree.

The Master of Arts in Education degree with a concentration in English is offered in the College of Education with the cooperation of the Department of English. The Master of Arts in Teaching degree with a concentration in English is also offered in the College of Education. The regulations for these degrees may be found in the College of Education section of this *Catalog*.

Graduate students in English may:

- prepare for careers of teaching on the college and pre-college levels;
- engage in literary research and composition on advanced levels;
- prepare for further advanced study and degrees; or pursue other pre-professional goals.

The graduate program in English is designed to train students in various areas of the discipline and provide them with both breadth and depth appropriate to the advanced level. Areas of the discipline are categorized below.

### Accelerated Dual Degree Program (3+2)

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.A. degree and M.A. degree within 5 calendar years because up to 9 semester hours of graduate-level coursework will apply to both the undergraduate B.A. degree and the graduate M.A. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required.

Entrance requirements for the 3 +2 adhere to the requirements for the M.A. English Program in the Graduate Catalog. Students admitted into the program will remain coded as undergraduate until fulfilling their BA requirements. Students admitted into the 3+2 program must complete the English BA degree with a minimum 3.0 GPA to be allowed to proceed on with graduate program coursework. Students must fulfill all graduation requirements listed below.

Students may apply to the Graduate School for admission to the 3+2 program in their junior or senior year. Approval of both the department and Graduate School is required (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>)).

### English Program Special Admission Requirements

Literature, Creative Writing, or Technical Writing Concentrations; completion of ENG 301 Advanced Composition and ENG 302 Principles of

Literary Study; and overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 option.

### Master's

- Creative Writing, Master of Fine Arts (M.F.A.) Bluegrass Writers Studio (p. 761)
- English, Master of Arts with a Concentration in Generalist (M.A.) (p. 761)
- English, Master of Arts with a Concentration in Literature (M.A.) (p. 763)
- English, Master of Arts with a Concentration in Rhetoric and Composition (M.A.) (p. 764)

### Courses

#### ENG 700. Topics in Professional Writing. (3 Credits)

A. Familiarizes students with visual communication as applied in popular culture, business, science, and technology. Students learn visual design principles, and apply them by creating a variety of visual projects, from icons to infographics.

#### ENG 702. Topics in Creative Writing. (3 Credits)

A. Special topics and workshop course for advanced or specialty genres and for students who desire to have their manuscripts critiqued. Guest lectures by and discussion with writers in residence. May be taken with different topics for a maximum of six hours.

#### ENG 703. Creative Writing Residency. (3 Credits)

SUMMER ONLY. A. Prerequisite: departmental approval. Held in conjunction with Bluegrass Writers Studio's eight-day summer residency on EKU-Richmond campus, followed by asynchronous online work. Includes craft lectures, panels, and readings by visiting writers. Students must submit an original creative writing manuscript before the residency. Students having received credit for this course at the 500 level may take this course for a maximum of six hours, including the undergraduate credit.

#### ENG 710. Intro to Linguistic Theory. (3 Credits)

A. An introduction to current linguistic theory and practice.

#### ENG 715. English as a Second Language. (3 Credits)

A. Prerequisite: Study of theories advanced to explain the learning of English as a second language.

#### ENG 720. History of English Language. (3 Credits)

A. Study of the history of the English language in terms of social, historical, and linguistic forces from which it developed into modern English, with an emphasis on English in contemporary contexts.

#### ENG 730. Topics in a Genre:\_\_\_\_\_. (3 Credits)

A. Study of a particular genre or comparison of related genres. These can include traditional literary genres contemporary popular genres; or digital multimodal genres . May be retaken with different topics to a maximum of six hours.

#### ENG 750. Topics in Textual Studies:\_\_. (3 Credits)

A. An intensive study of a particular aspect of textual production, transmission, or reception such as a movement, an author, historical contexts, or contemporary directions/experiments. May be retaken with a different topic to a maximum of six hours.

#### ENG 800. Seminar on Writing Pedagogy. (3 Credits)

I. An introduction to best practices in writing studies with practical application, problem solving, and research especially relevant to college-level teaching and consulting.

**ENG 801. Introduction to Graduate Study. (3 Credits)**

I. Introduction to professional expectations, issues, techniques, and tools of graduate-level study and research in disciplines related to literacy, written communication, and textual criticism. Must be taken before 12 hours earned in the program.

**ENG 803. Approaches to Creative Writing. (3 Credits)**

A. Study in depth of the various approaches to pedagogy of creative writing (e.g., Atelier, Great Works, Workshop) culminating in a major project demonstrating both mastery and synthesis of the approaches covered.

**ENG 804. Seminar in Creative Writing. (3 Credits)**

A. Writing and study in depth of a particular genre (e.g., fiction, poetry, drama) resulting in a coordinated project. May be retaken with different topics to a maximum of six hours, only upon advisor recommendation.

**ENG 805. Writing Prjct Summer Institute. (1-6 Credits)**

A. Prerequisite: Departmental approval. Collaborative, intensive experience in writing and teaching writing, focusing on writing process and development of best practice pedagogy for writing and literacy instruction in all content areas and grade levels, K-16.

**ENG 806. Topics in Modern Rhetoric:\_\_\_\_. (3 Credits)**

A. Study in depth of selected major concepts, theories, research and/or pedagogical approaches in twentieth-century rhetoric and writing studies, with attention to application. May be retaken with a different topic to a maximum of six hours.

**ENG 807. Adv Stdy Lang: Knowledge & Use. (3 Credits)**

A. Prerequisite: ENG 510/710 or equivalent. An advanced course in language knowledge (competence) and use (performance) from the perspective of language theory, focusing on aspects of language acquisition and literacy development.

**ENG 808. Studies in Modern Composition. (3 Credits)**

A. An advanced course in modern writing theories, suitable for students of writing and for students interested in writing professions; includes theory, practice, and administrative application.

**ENG 809. Seminar in Scholarship & Writ.. (3 Credits)**

A. Study of the range of scholarly tools and methods for research and writing, including print and electronic sources. Special emphasis on practical application to a specific research project.

**ENG 810. Advanced Grammar. (3 Credits)**

(3) A. In-depth analysis of linguistic and grammatical theories informing contemporary style rules in academic and professional contexts.

**ENG 812. Sem in Comp Resrch Methods. (3 Credits)**

A. Study of research methodology for rhetoric and composition, focused on gathering primary and secondary source material, ethics, collaboration, and reporting findings. Emphasis on practical application to a specific research project conduct as a class.

**ENG 814. Writing Across the Curriculum. (3 Credits)**

(3) A. A study of how literacy and writing programs function at the institutional level in higher education. Special focus on first-year writing, writing center, and general education administration practices.

**ENG 827. History of Rhetoric. (3 Credits)**

A. A study of theories of rhetoric over time, with a focus on rhetoric's application to writing studies.

**ENG 830. Textual Studies Seminar. (3 Credits)**

A. An intensive study of selected texts. May include examinations of textual production, applications, and appropriations in popular and political contexts, especially as those phenomena occur within transcultural, transhistorical, and transmedial flows. May be retaken with different topics to a maximum of six hours.

**ENG 833. Multimodal Criticism. (3 Credits)**

A. Study of selected major critical approaches (such as Multimodal Criticism, New Criticism, Marxist Criticism, Psychoanalytic Criticism, Deconstruction, New Historicism, Feminist Criticism, LGBTQ Criticism) and their application to multimodal texts.

**ENG 839. Professional English Project. (0.5-6 Credits)**

A. Prerequisite: Departmental approval. Work under faculty and field supervisors in cooperative placement related to literacy, writing, or media studies. One to six hours credit per semester or summer session. Minimum of eighty hours work required for each academic credit. Maximum of three hours credit may apply toward an M.A. degree in English. Credit will not be awarded for both ENG 839 and ENG 898.

**ENG 839B. Cooperative Study in English. (1-6 Credits)**

Work under faculty and field supervisors in cooperative placement related to English graduate studies. Maximum of three hours credit can apply toward MA in English degree.

**ENG 840. Foundations in ProTech Writing. (3 Credits)**

(3) A. Focuses on workplace writing in networked environments for technical, scientific, business, and other professional contexts. Emphasizes context and user analysis, data analysis and display, project planning, document management, usability, ethics, and research.

**ENG 850. Crit. Studies Contemp. Texts. (3 Credits)**

A. Study in depth of texts produced after 1840, paying attention to technological and socioeconomic contexts as well as poetic and rhetorical trends. May be retaken with different topics to a maximum of six hours, only upon advisor recommendation.

**ENG 860. Topics in Reading & Teaching. (3 Credits)**

A. Study of topics related to reading and teaching literature. May focus on informational, narrative, and/or poetic texts, and should address engaging with texts in digital, oral, and print modes. Designed for current and prospective 5-12 teachers, as well as students interested in post-secondary and professional instructional environments. (Counts towards MA, MAT, MAED, and Extension Certificate). May be retaken with different topics to a maximum of six hours, upon advisor approval.

**ENG 863. Writing & Teaching Writing. (3 Credits)**

A. Study of writing practices and writing instruction to develop K-16 students' writing skills and strategies. Designed for current and prospective K-12 teachers, as well as students interested in post-secondary and professional instructional environments. (Counts toward MA, MAT, MAED, Extension Certificate.) Students who already have credit for ENG 805 will not receive credit for ENG 863.

**ENG 870. Seminar in Medieval Literature. (3 Credits)**

A. Study of texts and textual production prior to the Industrial Revolution. May include syntheses with contemporary texts or with applications and appropriations in modern popular and political contexts. May be retaken with different topics to a maximum of six hours.

**ENG 880. Seminar in 20th Cen Brit Lit. (3 Credits)**

A. A study in depth of several major authors, or of a significant literary movement, in modern British literature. May be retaken with different topics to a maximum of six hours, only upon advisor recommendation.

**ENG 890. Special Studies. (1-3 Credits)**

A. Independent research and writing designed to fulfill individual needs and interests of advanced students. Student must have the graduate special studies proposal approved by faculty supervisor, graduate program coordinator, and department chair. ENG 898 Thesis I. (3) A. ENG 899 Thesis II. (3) A.

**ENG 898. Thesis. (3 Credits)**

A. An intensive research project related to critical textual studies, literacy, or written communication. Students are required to contact faculty and propose course of study in semester prior to taking this course. Credit will not be awarded for both ENG 839 and ENG 898.

## Creative Writing, Master of Fine Arts (M.F.A.) Bluegrass Writers Studio

### General Information

This studio-academic graduate program equips students with the training necessary to become published writers by focusing on advanced craft, contemporary literature, publishing, and professional development.

As a terminal degree program, MFA graduates are qualified for careers in college-level teaching, contract and freelance writing, editing, and publishing.

### Admission Requirements

Applicants to the MFA Creative Writing program are required to submit a portfolio of work in their desired concentration (poetry, fiction, or creative nonfiction) to the Department's MFA committee and have the work approved. The writing sample will consist of 15 pages of poetry or 20 pages of prose. The portfolio will also include a two-page statement of purpose that addresses the applicant's reasons for applying. Applicants should also have completed an undergraduate bachelor's degree, with at least a minor in English and/or be prepared to complete additional hours to remove any deficiency in their undergraduate preparations. Ordinarily, a 3.0 standing must have been achieved in upper-division English courses. Applicants must also meet the general requirements of the Graduate School. Applicants with a cumulative undergraduate GPA of less than 2.5 are required to complete the GRE and achieve satisfactory scores of 150 or higher on the Verbal and 4.0 or higher on the Analytical Writing sections of the exam. The committee reserves the right to waive certain departmental requirements in the event that a writing sample is exceptional.

### Program Requirements

CIP Code: 23.1302

Students must complete 48 hours in the program, as well as an approved creative thesis. Students must also pass a written exit examination. Each year in the program, full-time students generally attend two ten-day residencies (for a total of six credit hours), and enroll in 18 credit hours of online classes. The Winter MFA Residency (ENW 800 Winter MFA Residency:\_\_\_\_) is held in early January each year at a hotel/conference center in Lexington, KY. The Summer Writing Residency (ENW 801 Summer MFA Residency) is held each year during June/July in an international location, such as Edinburgh, Scotland.

The Summer Writing Residency is hosted by the EKU MFA program in partnership with the Brief-Residency MFA program of the University of New Orleans. EKU students who attend the Summer Residency study with students and faculty from a consortium of other creative

writing programs from across the United States, including the creative writing programs of California State University at Fresno, Georgia State University, the University of Memphis, and the University of New Orleans. During both residencies, MFA students attend intensive creative writing workshops (in a selected genre), craft classes, lectures, public readings, and other events.

Code	Title	Hours
<b>Required Courses</b>		
Students must complete four sections of any combination of the following: <sup>1</sup>		12
ENW 800	Winter MFA Residency:____	
ENW 801	Summer MFA Residency	
Students must complete four sections of the following: <sup>1</sup>		12
ENW 810	Topics in Creative Writing: (three-hour course)	
Students must complete four sections of the following: <sup>1</sup>		24
ENW 820	MFA Writing Workshop (six-hour course)	
<b>Exit Requirements</b>		
GRD 858F	MFA Creative Wrtg Comp Present	0
<b>Total Hours</b>		<b>48</b>

<sup>1</sup>

Topic must vary in each section. Course content is not to be repeated.

### Exit Requirement

#### Thesis

By the time a student has completed the fourth required section of ENW 820 MFA Writing Workshop (6 credits) he/she will have produced a book-length creative thesis of publishable quality. The thesis must be approved by the MFA Committee. (Detailed information concerning the preparation and submission of the creative thesis may be obtained from the MFA program coordinator.)

#### Exit Examination

During the student's final residency, he/she will be required to successfully pass a written exit examination (GRD 858F MFA Creative Wrtg Comp Present). (Detailed information concerning the requirements for the exit examination may be obtained from the MFA program coordinator.)

## English, Master of Arts with a Concentration in Generalist (M.A.)

### Admission Requirements

Applicants must meet the general requirements of the Graduate School. Applicants with a cumulative undergraduate GPA of less than 2.5 are required to complete the GRE and achieve satisfactory scores of 150 or higher on the Verbal and 4.0 or higher on the Analytical Writing sections of the exam. They also should have completed at least an undergraduate minor in English and/or be prepared to do additional hours to remove any deficiency in their undergraduate preparations. Ordinarily a 3.0 standing must have been achieved in upper division English courses.

### Program Requirements

CIP Code: 23.0101

Students must complete the 12 hours of the core curriculum as outlined below. Students choose one of three concentrations within the program: rhetoric and composition, literature, or generalist. Students in any concentration may elect thesis or non-thesis exit requirements to complete the program. Conferences between students and the program coordinator will ensure that elective hours are used to meet the program needs of the individual. At least half of the course work (i.e., 15 credit hours must be in courses open only to graduate students (800 level).

Code	Title	Hours
<b>Core Courses</b>		
ENG 801	Introduction to Graduate Study	3
<i>Rhetoric and Composition Courses</i>		
Choose from one of the following:		3
ENG 700	Topics in Professional Writing	
ENG 800	Seminar on Writing Pedagogy	
ENG 806	Topics in Modern Rhetoric:_____	
ENG 808	Studies in Modern Composition	
ENG 812	Sem in Comp Resrch Methods	
ENG 827	History of Rhetoric	
<i>Literature Courses</i>		
Choose from one of the following:		3
ENG 730	Topics in a Genre:_____	
ENG 750	Topics in Textual Studies:___	
ENG 825		
ENG 830	Textual Studies Seminar	
ENG 833	Multimodal Criticism	
ENG 850	Crit. Studies Contemp. Texts	
ENG 853		
ENG 854		
ENG 870	Seminar in Medieval Literature	
ENG 873		
ENG 876		
ENG 878		
ENG 880	Seminar in 20th Cen Brit Lit	
<i>Language Studies/ESL Courses</i>		
Choose from one of the following:		3
ENG 710	Intro to Linguistic Theory	
ENG 715	English as a Second Language	
ENG 720	History of English Language	
ENG 825		
<b>Concentrations</b>		
Students must select one of the following Concentrations:		18
Rhetoric and Composition Concentration		
Literature Concentration		
Generalist Concentration		
<b>Exit Requirements</b>		
GRD 857E		0
GRD 858E		0
<b>Total Hours</b>		<b>30</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
<i>Literature Courses</i>		
Choose from one of the following:		3
ENG 730	Topics in a Genre:_____	
ENG 750	Topics in Textual Studies:___	
ENG 825		
ENG 830	Textual Studies Seminar	
ENG 833	Multimodal Criticism	
ENG 850	Crit. Studies Contemp. Texts	
ENG 853		
ENG 854		
ENG 870	Seminar in Medieval Literature	
ENG 873		
ENG 876		
ENG 878		
ENG 880	Seminar in 20th Cen Brit Lit	
<i>Rhetoric and Composition Courses</i>		
Choose from one of the following:		3
ENG 700	Topics in Professional Writing	
ENG 800	Seminar on Writing Pedagogy	
ENG 806	Topics in Modern Rhetoric:_____	
ENG 808	Studies in Modern Composition	
ENG 812	Sem in Comp Resrch Methods	
ENG 827	History of Rhetoric	
<i>Pedagogy Courses</i>		
Choose from two of the following:		6
ENG 800	Seminar on Writing Pedagogy	
ENG 805	Writing Prjct Summer Institute	
ENG 860	Topics in Reading & Teaching	
ENG 861		
ENG 862		
ENG 863	Writing & Teaching Writing	
ENG 864		
<b>Electives in English</b>		
ENG 898	Thesis (Thesis Option)	3
Choose from three hours of ENG electives		3
<b>Total Hours</b>		<b>18</b>

## Exit Requirements

### Comprehensive Examination

All students are required to pass a written comprehensive examination (GRD 857E). Comprehensive examinations will be scheduled approximately one month before the end of the student's final enrollment period in graduate work for the degree. Non-thesis students will take a two-part examination:

1. a breadth-of-knowledge assessment (common to all students in a given concentration) and
2. a depth-of-knowledge assessment (tailored to the individual student's scholarly interests).

Thesis students will take only the breadth-of-knowledge assessment for their concentration.

### Thesis

The thesis is optional in this program. Students electing the thesis option must register for ENG 898 Thesis as one of their elective courses. A student wishing to write a thesis must prepare a prospectus and have it approved by the thesis committee before registering for thesis hours. The thesis must be prepared in conformity with the regulations approved by the Graduate Council and the Department of English. Students seeking to complete a thesis are required to pass an oral defense of their thesis (GRD 858E). Oral examinations will be scheduled approximately one month before the end of the student’s final enrollment period in graduate work for the degree. Detailed information concerning the preparation and submission of the thesis may be obtained from the program coordinator.

## English, Master of Arts with a Concentration in Literature (M.A.)

### Admission Requirements

Applicants must meet the general requirements of the Graduate School. Applicants with a cumulative undergraduate GPA of less than 2.5 are required to complete the GRE and achieve satisfactory scores of 150 or higher on the Verbal and 4.0 or higher on the Analytical Writing sections of the exam. They also should have completed at least an undergraduate minor in English and/or be prepared to do additional hours to remove any deficiency in their undergraduate preparations. Ordinarily a 3.0 standing must have been achieved in upper division English courses.

### Program Requirements

CIP Code: 23.0101

Students must complete the 12 hours of the core curriculum as outlined below. Students choose one of three concentrations within the program: rhetoric and composition, literature, or generalist. Students in any concentration may elect thesis or non-thesis exit requirements to complete the program. Conferences between students and the program coordinator will ensure that elective hours are used to meet the program needs of the individual. At least half of the course work (i.e., 15 credit hours must be in courses open only to graduate students (800 level).

Code	Title	Hours
<b>Core Courses</b>		
ENG 801	Introduction to Graduate Study	3
<i>Rhetoric and Composition Courses</i>		
Choose from one of the following:		3
ENG 700	Topics in Professional Writing	
ENG 800	Seminar on Writing Pedagogy	
ENG 806	Topics in Modern Rhetoric:_____	
ENG 808	Studies in Modern Composition	
ENG 812	Sem in Comp Resrch Methods	
ENG 827	History of Rhetoric	
<i>Literature Courses</i>		
Choose from one of the following:		3
ENG 730	Topics in a Genre:_____	
ENG 750	Topics in Textual Studies:___	
ENG 825		

ENG 830	Textual Studies Seminar	
ENG 833	Multimodal Criticism	
ENG 850	Crit. Studies Contemp. Texts	
ENG 853		
ENG 854		
ENG 870	Seminar in Medieval Literature	
ENG 873		
ENG 876		
ENG 878		
ENG 880	Seminar in 20th Cen Brit Lit	
<i>Language Studies/ESL Courses</i>		
Choose from one of the following:		3
ENG 710	Intro to Linguistic Theory	
ENG 715	English as a Second Language	
ENG 720	History of English Language	
ENG 825		
<b>Concentrations</b>		
Students must select one of the following Concentrations:		18
Rhetoric and Composition Concentration		
Literature Concentration		
Generalist Concentration		
<b>Exit Requirements</b>		
GRD 857E		0
GRD 858E		0
<b>Total Hours</b>		<b>30</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from three hours of the following:		3
ENG 850	Crit. Studies Contemp. Texts	
ENG 853		
ENG 854		
Choose from three hours of the following:		3
ENG 870	Seminar in Medieval Literature	
ENG 873		
ENG 876		
ENG 878		
ENG 880	Seminar in 20th Cen Brit Lit	
Choose from six hours of the following:		6
ENG 730	Topics in a Genre:_____	
ENG 750	Topics in Textual Studies:___	
ENG 825		
ENG 830	Textual Studies Seminar	
ENG 833	Multimodal Criticism <sup>1</sup>	
ENG 850	Crit. Studies Contemp. Texts	
ENG 853		
ENG 854		
ENG 870	Seminar in Medieval Literature	
ENG 873		
ENG 876		
ENG 878		

ENG 880	Seminar in 20th Cen Brit Lit	
<b>Electives in English</b>		
ENG 898	Thesis (Thesis Option)	3
Choose from three hours of ENG electives		3
<b>Total Hours</b>		<b>18</b>

1

Must include ENG 833 Multimodal Criticism (if not completed as part of the core)

## Exit Requirements

### Comprehensive Examination

All students are required to pass a written comprehensive examination (GRD 857E). Comprehensive examinations will be scheduled approximately one month before the end of the student's final enrollment period in graduate work for the degree. Non-thesis students will take a two-part examination:

1. a breadth-of-knowledge assessment (common to all students in a given concentration) and
2. a depth-of-knowledge assessment (tailored to the individual student's scholarly interests).

Thesis students will take only the breadth-of-knowledge assessment for their concentration.

### Thesis

The thesis is optional in this program. Students electing the thesis option must register for ENG 898 Thesis as one of their elective courses. A student wishing to write a thesis must prepare a prospectus and have it approved by the thesis committee before registering for thesis hours. The thesis must be prepared in conformity with the regulations approved by the Graduate Council and the Department of English. Students seeking to complete a thesis are required to pass an oral defense of their thesis (GRD 858E). Oral examinations will be scheduled approximately one month before the end of the student's final enrollment period in graduate work for the degree. Detailed information concerning the preparation and submission of the thesis may be obtained from the program coordinator.

## English, Master of Arts with a Concentration in Rhetoric and Composition (M.A.)

### Admission Requirements

Applicants must meet the general requirements of the Graduate School. Applicants with a cumulative undergraduate GPA of less than 2.5 are required to complete the GRE and achieve satisfactory scores of 150 or higher on the Verbal and 4.0 or higher on the Analytical Writing sections of the exam. They also should have completed at least an undergraduate minor in English and/or be prepared to do additional hours to remove any deficiency in their undergraduate preparations. Ordinarily a 3.0 standing must have been achieved in upper division English courses.

### Program Requirements

CIP Code: 23.0101

Students must complete the 12 hours of the core curriculum as outlined below. Students choose one of three concentrations within the program:

rhetoric and composition, literature, or generalist. Students in any concentration may elect thesis or non-thesis exit requirements to complete the program. Conferences between students and the program coordinator will ensure that elective hours are used to meet the program needs of the individual. At least half of the course work (i.e., 15 credit hours must be in courses open only to graduate students (800 level).

Code	Title	Hours
<b>Core Courses</b>		
ENG 801	Introduction to Graduate Study	3
<i>Rhetoric and Composition Courses</i>		
Choose from one of the following:		3
ENG 700	Topics in Professional Writing	
ENG 800	Seminar on Writing Pedagogy	
ENG 806	Topics in Modern Rhetoric:_____	
ENG 808	Studies in Modern Composition	
ENG 812	Sem in Comp Resrch Methods	
ENG 827	History of Rhetoric	
<i>Literature Courses</i>		
Choose from one of the following:		3
ENG 730	Topics in a Genre:_____	
ENG 750	Topics in Textual Studies:___	
ENG 825		
ENG 830	Textual Studies Seminar	
ENG 833	Multimodal Criticism	
ENG 850	Crit. Studies Contemp. Texts	
ENG 853		
ENG 854		
ENG 870	Seminar in Medieval Literature	
ENG 873		
ENG 876		
ENG 878		
ENG 880	Seminar in 20th Cen Brit Lit	
<i>Language Studies/ESL Courses</i>		
Choose from one of the following:		3
ENG 710	Intro to Linguistic Theory	
ENG 715	English as a Second Language	
ENG 720	History of English Language	
ENG 825		
<b>Concentrations</b>		
Students must select one of the following Concentrations:		18
Rhetoric and Composition Concentration		
Literature Concentration		
Generalist Concentration		
<b>Exit Requirements</b>		
GRD 857E		0
GRD 858E		0
<b>Total Hours</b>		<b>30</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 12 hours of the following:		12
ENG 700	Topics in Professional Writing	

ENG 800	Seminar on Writing Pedagogy	
ENG 806	Topics in Modern Rhetoric:_____	
ENG 808	Studies in Modern Composition <sup>1</sup>	
ENG 812	Sem in Comp Resrch Methods	
ENG 827	History of Rhetoric	

**Electives in English**

ENG 898	Thesis (Thesis Option)	3
Choose from three hours of ENG electives		3
<b>Total Hours</b>		<b>18</b>

1

Must include ENG 808 Studies in Modern Composition (if not completed as part of the core)

## Exit Requirements

### Comprehensive Examination

All students are required to pass a written comprehensive examination (GRD 857E). Comprehensive examinations will be scheduled approximately one month before the end of the student's final enrollment period in graduate work for the degree. Non-thesis students will take a two-part examination:

1. a breadth-of-knowledge assessment (common to all students in a given concentration) and
2. a depth-of-knowledge assessment (tailored to the individual student's scholarly interests).

Thesis students will take only the breadth-of-knowledge assessment for their concentration.

### Thesis

The thesis is optional in this program. Students electing the thesis option must register for ENG 898 Thesis as one of their elective courses. A student wishing to write a thesis must prepare a prospectus and have it approved by the thesis committee before registering for thesis hours. The thesis must be prepared in conformity with the regulations approved by the Graduate Council and the Department of English. Students seeking to complete a thesis are required to pass an oral defense of their thesis (GRD 858E). Oral examinations will be scheduled approximately one month before the end of the student's final enrollment period in graduate work for the degree. Detailed information concerning the preparation and submission of the thesis may be obtained from the program coordinator.

## Department of Government

Prof. Lynnette Noblitt, Chair

Dr. Anne Cizmar, MPA Graduate Coordinator

[www.government.eku.edu](http://www.government.eku.edu) (<http://www.government.eku.edu>)

Beckham 100

(859) 622-5931

The Department of Government offers work leading toward a Master of Public Administration and provides graduate level courses as support for graduate programs in related disciplines.

## Certificates

Persons with a baccalaureate degree from an accredited institution may earn a 12-hour non-degree University certificate in the following areas. Students must meet all requirements for admission to the

Graduate School. The certificate courses overlap with courses in the MPA Concentrations and may be applied to the MPA degree.

## Master's

- Master of Public Administration with a Concentration in Applied Policy (M.P.A.) (p. 767)
- Master of Public Administration with a Concentration in Community Development (M.P.A.) (p. 769)
- Master of Public Administration with a Concentration in Emergency Management and Disaster Resilience (M.P.A.) (p. 770)
- Master of Public Administration with a Concentration in Nonprofit Management (M.P.A.) (p. 771)

## Certificate

- Applied Policy, Certificate (p. 767)
- Community Development, Certificate (p. 767)
- Emergency Management & Disaster Resilience, Certificate (p. 767)
- Nonprofit Management, Certificate (p. 772)

## Courses

### Homeland Security

**HLS 800. HLS and Emergency Management. (3 Credits)**

A. Organization, missions and critical issues in US homeland security and emergency management. Focuses on developing professional skills in critical thinking, policy analysis and ethics.

**HLS 810. Infrastructure Protec and Risk. (3 Credits)**

A. Foundations for providing security and resilience to the nation's critical infrastructure with an emphasis on risk management.

**HLS 820. Security Intelligence. (3 Credits)**

A. Principles of security intelligence and applications to private sector security, risk, and resilience efforts as well as operational models in an effort to safeguard physical, cyber, and human assets and to enable informed decision-making.

**HLS 830. Long-Term Disaster Resilience. (3 Credits)**

A. Explores disaster trends and problems, as well as community wide mitigation and preparedness strategies aimed at reducing the impacts of natural hazards and achieving long-term disaster resilience.

**HLS 831. Unconventional Threats and Res. (3 Credits)**

A. Formerly SSE 831. The course addresses concepts, theories, laws and authorities, principles, programs, and requirements associated with unconventional threats to our nation that most likely would result in mass casualties and pose large-scale responses and cascading threats.

**HLS 835. Intergov Rltns in Disaster Mgt. (3 Credits)**

A. Analysis of intergovernmental relations and disaster policies across all phases of emergency management with a focus on disaster response and recovery. Systems are investigated through critical thinking, case studies, and comparative analysis methodologies.

**HLS 850. Foundations of Cybersecurity M. (3 Credits)**

A. Identification and application of private sector cybersecurity management principles as well as the analysis and application of national cybersecurity policies and frameworks. Concentration on cyber intrusion prevention, response and recovery from a management perspective.

## Political Science

### **POL 733. Seminar: State & Local Politics. (3 Credits)**

A. A topical analysis of the institutions, policies, and administration of American state and local government. May be retaken to a total of six credit hours, provided subject matter differs each time.

### **POL 741. Politics and Education. (3 Credits)**

A. An examination of the way political decisions and policies are made in the field of education. Special attention is given to educational decision makers and political power at the local level.

### **POL 751. Classic & Mediev Pol Theory. (3 Credits)**

A. Cross-listed as PHI 751. Examination of Western political thought from Plato to Aquinas. Credit will not be awarded to students who have credit for PHI 551, PHI 551W, POL 551, POL 551W or PHI 751.

### **POL 752. Modern Political Theory. (3 Credits)**

A. Cross-listed as PHI 752. Examination of Western political thought from the Renaissance to the mid-twentieth century. Credit will not be awarded to students who have credit for PHI 552, PHI 552W, POL 552, POL 552W or PHI 752.

### **POL 753. Contemporary Political Theory. (3 Credits)**

A. Cross-listed as PHI 753. Examination of Western political thought from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for PHI 553, PHI 553W, POL 553, POL 553W, or PHI 753.

### **POL 765. Administrative Law. (3 Credits)**

Nature of the powers vested in administrative agencies; the problems of administration procedure; the methods and extent of judicial control over administrative action.

### **POL 800. Research Methods in Pol Sci. (3 Credits)**

A. An introduction and an overview of theories, methods, and analyses which are used in contemporary political science and public administration research.

### **POL 801. Admin, Ethics, Public Policy. (3 Credits)**

A. An analysis and overview of the interplay of ethical considerations, administration, and policy process in the public sector.

### **POL 835. Sem Intergovernmental Relation. (3 Credits)**

A. An examination of the institutions, concepts, and problems of intergovernmental relations and the American federal system.

### **POL 839. Co-op or Appl Lrn: Pub Adm/Pol. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in cooperative placement related to student's academic studies. Credit varies with hours of employment. A minimum of eighty hours of work required for each academic credit. May be repeated at the discretion of the department. Credit may be substituted for POL 871 in the M.P.A. program provided the requirements of POL 871 are met completely by the cooperative education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. requirements.

### **POL 839A. Co-op in Pub Admin & Pol Sci. (0.5-6 Credits)**

Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment. May be repeated at the discretion of the department. Credit may be substituted for POL 871 in the MPA program provided the requirements of POL 871 are met completely by the cooperative education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. cooperative education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. requirements.

### **POL 839B. Co-op in Pub Admin & Pol Sci. (0.5-6 Credits)**

Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment. May be repeated at the discretion of the department. Credit may be substituted for POL 871 in the MPA program provided the requirements education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. requirements.

### **POL 839C. Co-op in Pub Admin & Pol Sci. (0.5-6 Credits)**

Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment. May be repeated at the discretion of the department. Credit may be substituted for POL 871 in the MPA program provided the requirements of POL 871 are met completely by the cooperative education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. requirements.

### **POL 839D. Co-op in Pub Admin & Pol Sci. (0.5-6 Credits)**

Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. No more than six hours may count toward this major. No more than three hours may count toward this minor.

### **POL 845. Community Development. (3 Credits)**

A. Examines developmental efforts on community level in the United States; relates community development to community organization and examines current efforts, especially those based on the concept of self-help, to generate and implement community development programs.

### **POL 846. Non-Profit Organizations. (3 Credits)**

A. Study of non-profit organizations, including an examination of types, leadership styles, management tools, board organization, budgeting and fund-raising.

### **POL 847. Grant Writing. (3 Credits)**

A. The study of grant writing processes involving federal and foundation grants as they apply to the public and non-profit sector. Credit will not be awarded for both POL 847 and POL 847S.

### **POL 847S. Grant Writing. (3 Credits)**

A. The study of grant writing processes involving federal and foundation grants as they apply to the public and non-profit sector, enhanced with a service-learning component. Credit will not be awarded for both POL 847 and POL 847S.

### **POL 870. Public Admin Internship. (3 Credits)**

A. Prerequisite: departmental approval. An internship in a public or nonprofit organizational setting for M.P.A. students conducted under departmental supervision and resulting in a capstone paper.

### **POL 871. Field Study in Public Admin. (3 Credits)**

A. Prerequisite: Departmental approval. An advanced, directed research project for M.P.A. students under departmental supervision resulting in a graduate-level report.

### **POL 872. Practicum in Public Admin.. (3-6 Credits)**

A. Prerequisite: departmental approval. An experientially based project for MPH students under advisor supervision. Students will be placed in a supervised work environment in public health administration.

### **POL 874. Public Sector Leadership. (3 Credits)**

A. This course examines theories and practices of leadership in public and nonprofit sector organizations. Emphasis is given competing theories of leadership and to the examination of leadership through theoretical reference frames.

**POL 875. Organization Theory. (3 Credits)**

A. Survey of major theories as applied to government agencies and other not-for-profit organizations. Topics covered include classical texts and recent research on theories of organizational behavior,

**POL 876. Public Human Resources Mngt. (3 Credits)**

A. Study of strategies and techniques of public human resources management in the public sector and their relationship to pertinent laws, policies, and institutions, in the context of contemporary theories of organizational behavior.

**POL 877. Public Finance Administration. (3 Credits)**

A. An examination of the effects of economic, administrative, legislative and judicial factors on the fiscal operations of government. Study of the budgetary and financial decision-making process at the federal, state and local levels.

**POL 879. Policy Analysis and Evaluation. (3 Credits)**

A. Prerequisite: POL 800. An introduction to theories and methods of analysis relating to public policy and public program formulation, implementation, and evaluation. Topics include quantitative and non-quantitative analytical techniques.

**POL 880. Nonprofit Financial Management. (3 Credits)**

A. The course will examine financial considerations of nonprofit organizations, including funding sources, nonprofit financial statements, reserve development and management, financial accountability, and strategies required to ensure the effectiveness and sustainability of the organization.

**POL 891. Directed Research. (3-6 Credits)**

Research under the direct supervision of one or more departmental members. Students must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**POL 892. Dir. Re in Public Hlth Admin.. (3-6 Credits)**

A. Research under the direct supervision of faculty advisors. Students must have the independent study form approved by the faculty supervisor and department chair. Designed for MPH students concentrating in Public Administration.

**POL 893. Special Topics:\_\_\_\_\_. (1-3 Credits)**

A. Seminar in a specialized topic of the discipline. Topics will vary. May be retaken to a total of six hours credit, provided subject matter differs each time.

**POL 895. Independent Study. (1-3 Credits)**

A. Student-initiated directed study. Can include research project or readings in an area of the discipline. May be retaken to a total of six hours credit, provided subject matter differs each time. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**POL 899. Thesis. (3-6 Credits)**

A. May be retaken to a total of six hours credit.

**Applied Policy, Certificate  
Program Requirements**

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from 12 hours of the following:		12
POL 835	Sem Intergovernmental Relation	
POL 845	Community Development	
POL 846	Non-Profit Organizations	

POL 847	Grant Writing
POL 880	Nonprofit Financial Management
HLS 810	Infrastructure Protec and Risk
HLS 830	Long-Term Disaster Resilience
HLS 831	Unconventional Threats and Res
HLS 835	Intergov Rltns in Disaster Mgt
PSY 779	History & Systems of Psycholog
PSY 804	Introduction to I-O Psychology
PSY 820	Statistics & Research Design I
PSY 837	Social Psy &Cultural Diversity
PSY 853	Biological Bases of Behavior
PSY 859	Cog/Affect Bases of Behavior

**Total Hours 12**

**Community Development, Certificate  
Program Requirements**

Code	Title	Hours
<b>Certificate Requirements</b>		
POL 835	Sem Intergovernmental Relation	3
POL 845	Community Development	3
POL 846	Non-Profit Organizations	3
POL 847	Grant Writing	3

**Total Hours 12**

**Emergency Management & Disaster  
Resilience, Certificate**

**Program Requirements**

Code	Title	Hours
<b>Certificate Requirements</b>		
HLS 831	Unconventional Threats and Res	3
HLS 835	Intergov Rltns in Disaster Mgt	3
HLS 830	Long-Term Disaster Resilience	3
HLS 810	Infrastructure Protec and Risk	3

**Total Hours 12**

**Master of Public Administration with  
a Concentration in Applied Policy  
(M.P.A.)**

**General Information**

First of its kind in Kentucky when created in 1968, the Master of Public Administration program prepares qualified individuals, both entry level and mid-career, for advanced professional positions in the administration of public and non-profit programs. The program also may be appropriate for individuals in the private sector who have responsibility for public sector contracts, regulatory compliance, or other liaison and oversight activities.

Special emphasis is placed on regional and local government. In addition to a general concentration, specialized programs of study are offered

in community development, emergency management and disaster resilience, and nonprofit management.

The MPA program is accredited by the Network of Schools of Public Policy, Affairs, and Administration.

## Admission Requirements

Applicants for admission must meet both the general requirements of the Graduate School and the requirements of the MPA program. Applicants to the MPA program come from a variety of undergraduate degree programs, and admission decisions are based on an overall assessment of a student's application.

Applicants who meet the criteria listed below may qualify for "Clear Admission" to the MPA program:

1. A complete application;
2. Meets the general requirements of both the Graduate School and MPA program;
3. Achieves a cumulative grade point average (GPA) of 2.75 (on a 4.0 scale);
4. Resume or curriculum vitae (CV);
5. Two (2) letters of recommendation;
6. Statement of career goals and objectives;
7. Affirm their character and fitness for graduate education in public administration.

Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 145 on both the verbal and quantitative sections of the exam. Students who cannot affirm their character and fitness must include a statement explaining their past actions to be reviewed by the program faculty.

## Program Requirements

CIP Code: 44.0401

The MPA Degree program requires satisfactory completion of a minimum of 36 credit hours. All students take a common program core of 21 credit hours. The program core consists of courses in:

- Administration, Ethics and Public Policy
- Research Methods
- Public Sector Leadership
- Organizational Theory
- Public Human Resources Management
- Public Finance Administration
- Policy Analysis and Program Evaluation

In addition to these program core courses all students will enroll in and execute three semester hours of applied study. This requirement may be met through an internship, generally at a public or nonprofit organization, and the submission of a capstone paper, or through an applied analysis project resulting in the submission of a research report.

While observing the above requirements, students may choose to complete the general degree program or may choose from three concentrations within the program. Curriculum requirements for the general program and concentrations are as follows:

Code	Title	Hours
<b>Core Courses</b>		
POL 800	Research Methods in Pol Sci	3
POL 801	Admin, Ethics, Public Policy	3
POL 874	Public Sector Leadership	3
POL 875	Organization Theory	3
POL 876	Public Human Resources Mngt	3
POL 877	Public Finance Administration	3
POL 879	Policy Analysis and Evaluation	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12
Community Development		
Emergency Management & Disaster Resilience		
Applied Policy		
Nonprofit Management		
<b>Exit Requirements</b>		
<i>Internship or Applied Analysis in Public Administration</i>		
POL 870	Public Admin Internship	3
or POL 871	Field Study in Public Admin	
<b>Total Hours</b>		<b>36</b>

## Program Plan

During the first term, graduate students must meet with their advisor to develop a planned program. Students for whom program plans have not been appropriately filed will not be eligible for a second registration.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose from 12 hours of the following approved by the e-Campus MPA Advisor:		12
POL 835	Sem Intergovernmental Relation	
POL 845	Community Development	
POL 846	Non-Profit Organizations	
POL 847	Grant Writing	
POL 880	Nonprofit Financial Management	
HLS 810	Infrastructure Protec and Risk	
HLS 830	Long-Term Disaster Resilience	
HLS 831	Unconventional Threats and Res	
HLS 835	Intergov Rltns in Disaster Mgt	
PSY 779	History & Systems of Psycholog	
PSY 804	Introduction to I-O Psychology	
PSY 820	Statistics & Research Design I	
PSY 837	Social Psy & Cultural Diversity	
PSY 853	Biological Bases of Behavior	
PSY 859	Cog/Affect Bases of Behavior	
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

### Applied Field Study

All students will satisfactorily complete 3 hours of POL 870 Public Admin Internship (or) POL 871 Field Study in Public Admin near or after the completion of all core MPA course requirements in a manner that

synthesizes central elements of the student's graduate program and aligns with the EKU Graduate Student Learning Outcomes and NASPAA accreditation standards for professional master's degree programs in public affairs, policy and administration.

## Master of Public Administration with a Concentration in Community Development (M.P.A.)

### General Information

First of its kind in Kentucky when created in 1968, the Master of Public Administration program prepares qualified individuals, both entry level and mid-career, for advanced professional positions in the administration of public and non-profit programs. The program also may be appropriate for individuals in the private sector who have responsibility for public sector contracts, regulatory compliance, or other liaison and oversight activities.

Special emphasis is placed on regional and local government. In addition to a general concentration, specialized programs of study are offered in community development, emergency management and disaster resilience, and nonprofit management.

The MPA program is accredited by the Network of Schools of Public Policy, Affairs, and Administration.

### Admission Requirements

Applicants for admission must meet both the general requirements of the Graduate School and the requirements of the MPA program. Applicants to the MPA program come from a variety of undergraduate degree programs, and admission decisions are based on an overall assessment of a student's application.

Applicants who meet the criteria listed below may qualify for "Clear Admission" to the MPA program:

1. A complete application;
2. Meets the general requirements of both the Graduate School and MPA program;
3. Achieves a cumulative grade point average (GPA) of 2.75 (on a 4.0 scale);
4. Resume or curriculum vitae (CV);
5. Two (2) letters of recommendation;
6. Statement of career goals and objectives;
7. Affirm their character and fitness for graduate education in public administration.

Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 145 on both the verbal and quantitative sections of the exam. Students who cannot affirm their character and fitness must include a statement explaining their past actions to be reviewed by the program faculty.

### Program Requirements

CIP Code: 44.0401

The MPA Degree program requires satisfactory completion of a minimum of 36 credit hours. All students take a common program core of 21 credit hours. The program core consists of courses in:

- Administration, Ethics and Public Policy
- Research Methods
- Public Sector Leadership
- Organizational Theory
- Public Human Resources Management
- Public Finance Administration
- Policy Analysis and Program Evaluation

In addition to these program core courses all students will enroll in and execute three semester hours of applied study. This requirement may be met through an internship, generally at a public or nonprofit organization, and the submission of a capstone paper, or through an applied analysis project resulting in the submission of a research report.

While observing the above requirements, students may choose to complete the general degree program or may choose from three concentrations within the program. Curriculum requirements for the general program and concentrations are as follows:

Code	Title	Hours
<b>Core Courses</b>		
POL 800	Research Methods in Pol Sci	3
POL 801	Admin, Ethics, Public Policy	3
POL 874	Public Sector Leadership	3
POL 875	Organization Theory	3
POL 876	Public Human Resources Mngt	3
POL 877	Public Finance Administration	3
POL 879	Policy Analysis and Evaluation	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12
Community Development		
Emergency Management & Disaster Resilience		
Interdisciplinary Studies		
Nonprofit Management		
<b>Exit Requirements</b>		
<i>Internship or Applied Analysis in Public Administration</i>		
POL 870	Public Admin Internship	3
	or POL 871	Field Study in Public Admin
<b>Total Hours</b>		<b>36</b>

### Program Plan

During the first term, graduate students must meet with their advisor to develop a planned program. Students for whom program plans have not been appropriately filed will not be eligible for a second registration.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
POL 835	Sem Intergovernmental Relation	3
POL 845	Community Development	3
POL 846	Non-Profit Organizations	3

POL 847	Grant Writing	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

### Applied Field Study

All students will satisfactorily complete 3 hours of POL 870 Public Admin Internship (or) POL 871 Field Study in Public Admin near or after the completion of all core MPA course requirements in a manner that synthesizes central elements of the student's graduate program and aligns with the EKU Graduate Student Learning Outcomes and NASPAA accreditation standards for professional master's degree programs in public affairs, policy and administration.

## Master of Public Administration with a Concentration in Emergency Management and Disaster Resilience (M.P.A.)

### General Information

First of its kind in Kentucky when created in 1968, the Master of Public Administration program prepares qualified individuals, both entry level and mid-career, for advanced professional positions in the administration of public and non-profit programs. The program also may be appropriate for individuals in the private sector who have responsibility for public sector contracts, regulatory compliance, or other liaison and oversight activities.

Special emphasis is placed on regional and local government. In addition to a general concentration, specialized programs of study are offered in community development, emergency management and disaster resilience, and nonprofit management.

The MPA program is accredited by the National Association of Schools of Public Affairs and Administration.

### Admission Requirements

Applicants for admission must meet both the general requirements of the Graduate School and the requirements of the MPA program. Applicants to the MPA program come from a variety of undergraduate degree programs, and admission decisions are based on an overall assessment of a student's application.

Applicants who meet the criteria listed below may qualify for "Clear Admission" to the MPA program:

1. A complete application;
2. Meets the general requirements of both the Graduate School and MPA program;
3. Achieves a cumulative grade point average (GPA) of 2.75 (on a 4.0 scale);
4. Resume or curriculum vitae (CV);
5. Two (2) letters of recommendation;
6. Statement of career goals and objectives;
7. Affirm their character and fitness for graduate education in public administration.

Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 145 on both the verbal and quantitative sections of the exam. Students who cannot affirm their character and fitness must include a statement explaining their past actions to be reviewed by the program faculty.

## Program Requirements

CIP Code: 44.0401

The MPA Degree program requires satisfactory completion of a minimum of 36 credit hours. All students take a common program core of 21 credit hours. The program core consists of courses in:

- Administration, Ethics and Public Policy
- Research Methods
- Public Sector Leadership
- Organizational Theory
- Public Human Resources Management
- Public Finance Administration
- Policy Analysis and Program Evaluation

In addition to these program core courses all students will enroll in and execute three semester hours of applied study. This requirement may be met through an internship, generally at a public or nonprofit organization, and the submission of a capstone paper, or through an applied analysis project resulting in the submission of a research report.

While observing the above requirements, students may choose to complete the general degree program or may choose from three concentrations within the program. Curriculum requirements for the general program and concentrations are as follows:

Code	Title	Hours
<b>Core Courses</b>		
POL 800	Research Methods in Pol Sci	3
POL 801	Admin, Ethics, Public Policy	3
POL 874	Public Sector Leadership	3
POL 875	Organization Theory	3
POL 876	Public Human Resources Mngt	3
POL 877	Public Finance Administration	3
POL 879	Policy Analysis and Evaluation	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12
Community Development		
Emergency Management & Disaster Resilience		
Interdisciplinary Studies		
Nonprofit Management		
<b>Exit Requirements</b>		
<i>Internship or Applied Analysis in Public Administration</i>		
POL 870	Public Admin Internship	3
or POL 871	Field Study in Public Admin	
<b>Total Hours</b>		<b>36</b>

## Program Plan

During the first term, graduate students must meet with their advisor to develop a planned program. Students for whom program plans have not been appropriately filed will not be eligible for a second registration.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
HLS 810	Infrastructure Protec and Risk	3
HLS 830	Long-Term Disaster Resilience	3
HLS 831	Unconventional Threats and Res	3
HLS 835	Intergov Rltns in Disaster Mgt	3
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

### Applied Field Study

All students will satisfactorily complete 3 hours of POL 870 Public Admin Internship (or) POL 871 Field Study in Public Admin near or after the completion of all core MPA course requirements in a manner that synthesizes central elements of the student’s graduate program and aligns with the ECU Graduate Student Learning Outcomes and NASPAA accreditation standards for professional master’s degree programs in public affairs, policy and administration.

# Master of Public Administration with a Concentration in Nonprofit Management (M.P.A.)

## General Information

First of its kind in Kentucky when created in 1968, the Master of Public Administration program prepares qualified individuals, both entry level and mid-career, for advanced professional positions in the administration of public and non-profit programs. The program also may be appropriate for individuals in the private sector who have responsibility for public sector contracts, regulatory compliance, or other liaison and oversight activities.

Special emphasis is placed on regional and local government. In addition to a general concentration, specialized programs of study are offered in community development, emergency management and disaster resilience, and nonprofit management.

The MPA program is accredited by the Network of Schools of Public Policy, Affairs, and Administration.

## Admission Requirements

Applicants for admission must meet both the general requirements of the Graduate School and the requirements of the MPA program. Applicants to the MPA program come from a variety of undergraduate degree programs, and admission decisions are based on an overall assessment of a student’s application.

Applicants who meet the criteria listed below may qualify for “Clear Admission” to the MPA program:

1. A complete application;
2. Meets the general requirements of both the Graduate School and MPA program;
3. Achieves a cumulative grade point average (GPA) of 2.75 (on a 4.0 scale);
4. Resume or curriculum vitae (CV);
5. Two (2) letters of recommendation;
6. Statement of career goals and objectives;
7. Affirm their character and fitness for graduate education in public administration.

Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 145 on both the verbal and quantitative sections of the exam. Students who cannot affirm their character and fitness must include a statement explaining their past actions to be reviewed by the program faculty.

## Program Requirements

CIP Code: 44.0401

The MPA Degree program requires satisfactory completion of a minimum of 36 credit hours. All students take a common program core of 21 credit hours. The program core consists of courses in:

- Administration, Ethics and Public Policy
- Research Methods
- Public Sector Leadership
- Organizational Theory
- Public Human Resources Management
- Public Finance Administration
- Policy Analysis and Program Evaluation

In addition to these program core courses all students will enroll in and execute three semester hours of applied study. This requirement may be met through an internship, generally at a public or nonprofit organization, and the submission of a capstone paper, or through an applied analysis project resulting in the submission of a research report.

While observing the above requirements, students may choose to complete the general degree program or may choose from three concentrations within the program. Curriculum requirements for the general program and concentrations are as follows:

Code	Title	Hours
<b>Core Courses</b>		
POL 800	Research Methods in Pol Sci	3
POL 801	Admin, Ethics, Public Policy	3
POL 874	Public Sector Leadership	3
POL 875	Organization Theory	3
POL 876	Public Human Resources Mngt	3
POL 877	Public Finance Administration	3
POL 879	Policy Analysis and Evaluation	3

<b>Concentrations</b>	
Students must select one of the following Concentrations:	12
Community Development	
Emergency Management & Disaster Resilience	
Interdisciplinary Studies	

Nonprofit Management		
<b>Exit Requirements</b>		
<i>Internship or Applied Analysis in Public Administration</i>		
POL 870	Public Admin Internship	3
or POL 871	Field Study in Public Admin	
<b>Total Hours</b>		<b>36</b>

## Program Plan

During the first term, graduate students must meet with their advisor to develop a planned program. Students for whom program plans have not been appropriately filed will not be eligible for a second registration.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
Choose twelve hours from the following:		12
POL 845	Community Development	
POL 846	Non-Profit Organizations	
POL 847	Grant Writing	
POL 880	Nonprofit Financial Management	
PSY 873	Organizational Psychology	
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

### Applied Field Study

All students will satisfactorily complete 3 hours of POL 870 Public Admin Internship (or) POL 871 Field Study in Public Admin near or after the completion of all core MPA course requirements in a manner that synthesizes central elements of the student's graduate program and aligns with the EKU Graduate Student Learning Outcomes and NASPAA accreditation standards for professional master's degree programs in public affairs, policy and administration.

## Nonprofit Management, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose twelve hours from the following		12
POL 845	Community Development	
POL 846	Non-Profit Organizations	
POL 847	Grant Writing	
POL 880	Nonprofit Financial Management	
PSY 873	Organizational Psychology	
<b>Total Hours</b>		<b>12</b>

## Department of History, Philosophy, and Religious Studies

Dr. Timothy Smit, Interim Chair  
 Dr. Josh Lynn, Graduate Coordinator  
[www.history.eku.edu](http://www.history.eku.edu) (<http://www.history.eku.edu>)  
 (859) 622-1373

The Department of History, Philosophy, and Religious Studies offers the Master of Arts in History through thesis, non-thesis, or applied history plans. Program plans provide courses in American and non-American history. The College of Education offers the Master of Arts in Education degree in secondary education with a concentration in history, and regulations for that degree may be found in the College of Education section of this *Catalog*.

## Master's

- History, Master of Arts (M.A.) (p. 773)

## Courses

### HIS 800. Historiography and Criticism. (3 Credits)

A. A seminar in the history and theory of historical writing and fundamental techniques of the historian.

### HIS 802A. Historical Research and Writin. (3 Credits)

(3). Prerequisite or Corerequisite: HIS 800. Historical research and methodologies using case studies of specific events in U.S. history that have influenced the development of cultures and civilizations.

### HIS 802B. Historical Research in Writing. (3 Credits)

(3) Prerequisite or Corerequisite: HIS 800. Historical research and methodologies using case studies of specific events in European history that have influenced and continue to influence the development of cultures and civilizations. Course may be retaken to a maximum of 9 hours provided the subject matter differs each time.

### HIS 802C. Historical Research and Writin. (3 Credits)

(3.) A. Prerequisite or Corerequisite: HIS 800. Historical research and methodologies using case studies of specific events in non-Western history that have influenced and continue to influence the development of cultures and civilizations. Course may be retaken to a maximum of 9 hours provided the subject matter differs each time.

### HIS 838. Practicum in Applied History. (3 Credits)

A. Prerequisite: departmental approval. Supervised practice in applied history settings. Selective participation varies with the student's program and participation. May be retaken at the discretion of the department. Three credit hours will require approximately 150 hours of supervised practice plus completion of an independent research project over the course of a semester. Maximum of three credit hours may be applied to the M.A. program in history for students in Thesis or Non-Thesis Plan. Credit up to nine hours awarded toward degree if in Applied History Plan.

### HIS 839. Co-op Study in Applied History. (1-3 Credits)

Prerequisite: Departmental approval; must have been admitted to Masters in history program. Work in placement related to applied history. One to three hours credit per semester or summer. A minimum of 80 hours employment required for each semester hour credit. May be retaken for a maximum of 3 hours. Credit up to 6 hours awarded toward degree if in Applied History Plan. Credit may not otherwise be substituted for any M.A. requirements.

### HIS 840. HIS Topics for 4th-8th Grd Tch. (3 Credits)

(3) A. Seminar on selected topics in history specifically related to 4th through 8th- grade social-studies curriculum. Course may be retaken to a maximum of 9 hours provided the subject matter differs each time. Course is not open to History M.A. students or to secondary-education teachers. Course cannot be used to fulfill requirements for a History M.A.

**HIS 849. Reading and Research:\_\_\_\_\_ (3 Credits)**

A. Independent study in a specific field. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**HIS 860. Readings in American History.. (3 Credits)**

A. Seminar on selected developments in American history. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**HIS 861. Readings in European History.. (3 Credits)**

A. Seminar on selected developments in European history. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**HIS 862. Reading in Asian/African His:\_. (3 Credits)**

A. Seminar on selected developments in Asian or African history. May be retaken to a maximum of nine hours, provided subject matter differs each time.

**HIS 863. Readings in Latin American His. (3 Credits)**

A. Seminar on selected developments in Latin American history. May be retaken to a maximum of nine hours, provided subject matter differs each time.

**HIS 864. Comparative History:\_\_\_\_\_ (3 Credits)**

A. Seminar on issues in comparative history. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**HIS 865. Conceptualizing History:\_\_\_\_\_. (3 Credits)**

A. Analysis of recent trends in the teaching and conceptualizing of world history, western civilization, and/or U.S. History. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**HIS 899. Thesis. (3-6 Credits)**

May be retaken to a maximum of six hours.

**HIS 899C. Thesis Continuation. (3-9 Credits)**

I, II. Prerequisite: departmental approval. Continuation of research leading to thesis as directed by the chair of the thesis committee. Student must already have registered for six hours of HIS 899. May not be used to satisfy degree program requirement.

## History, Master of Arts (M.A.)

### General Information

The department strongly recommends that students who plan to seek a doctoral degree choose the thesis plan. At least one-half of the course work leading to the degree must be in 800-level courses.

### Language

Though the department no longer maintains a language requirement, it strongly recommends that students who plan to seek a doctoral degree should acquire foreign language proficiency while completing the masters degree.

### Admission Requirements

Admission is determined by the Department of History, Philosophy, and Religious Studies in cooperation with the Office of Graduate Education and Research. To be considered for admission, applicants must meet the general admission requirements of the Graduate School. In addition, the following is required of each candidate:

Completion of at least a satisfactory undergraduate minor in history or the equivalent.

Applicants must arrange for submission of three letters of recommendation directly to the department.

Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 153 on the Verbal and 4.0 on the Analytical Writing sections of the exam.

## Program Requirements

CIP Code: 54.0101

### Thesis Plan

Code	Title	Hours
<b>Foundation Course</b>		
HIS 800	Historiography and Criticism	3
<b>American History</b>		
Choose from nine hours of the following: <sup>1</sup>		9
HIS 802A	Historical Research and Writin <sup>2</sup>	
HIS 860	Readings in American History:	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>European History</b>		
Choose from six hours of the following: <sup>1</sup>		6
HIS 802B	Historical Research in Writing <sup>2</sup>	
HIS 861	Readings in European History:	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>Asian, African or Latin American History</b>		
Choose from three hours of the following: <sup>1</sup>		3
HIS 802C	Historical Research and Writin <sup>2</sup>	
HIS 862	Reading in Asian/African His:_____	
HIS 863	Readings in Latin American His	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>Thesis</b>		
HIS 899	Thesis	6
<b>History Electives</b>		
Choose from three hours of graduate courses in U.S., European, Asia/ Africa or Latin American History		3
<b>Exit Requirements</b>		
GRD 857G	MA Hist Written Comp Exam	0

GRD 858H	MA Hist Oral Comp Exit Exam	0
<b>Total Hours</b>		<b>30</b>

1

The department requires that at least one of the courses used to satisfy the eighteen credit hours represented by these three requirements cover in a substantial way a period before the year 1800.

2

The department requires successful completion of at least one of the following research seminars: HIS 802A Historical Research and Writin, HIS 802B Historical Research in Writing, or HIS 802C Historical Research and Writin.

## Non-Thesis Plan

Code	Title	Hours
<b>Foundation Course</b>		
HIS 800	Historiography and Criticism	3
<b>American History</b>		
Choose from nine hours of the following: <sup>1</sup>		9
HIS 802A	Historical Research and Writin <sup>2</sup>	
HIS 860	Readings in American History:	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>European History</b>		
Choose from six hours of the following: <sup>1</sup>		6
HIS 802B	Historical Research in Writing <sup>2</sup>	
HIS 861	Readings in European History:	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>Asian, African or Latin American History</b>		
Choose from six hours of the following: <sup>1</sup>		6
HIS 802C	Historical Research and Writin <sup>2</sup>	
HIS 862	Reading in Asian/African His:_	
HIS 863	Readings in Latin American His	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>History Electives</b>		
Choose from six hours of graduate courses in U.S., European, Asia/ Africa or Latin American History		6
<b>Exit Requirements</b>		
GRD 857G	MA Hist Written Comp Exam	0

GRD 858H	MA Hist Oral Comp Exit Exam	0
<b>Total Hours</b>		<b>30</b>

1

The department requires that at least two the courses used to satisfy the twenty-one credit hours represented by these three requirements cover in a substantial way a period before the year 1800.

2

The department requires successful completion of at least one of the following research seminars: HIS 802A Historical Research and Writin, HIS 802B Historical Research in Writing, or HIS 802C Historical Research and Writin.

## Applied History Plan

Code	Title	Hours
<b>Foundation Course</b>		
HIS 800	Historiography and Criticism	3
<b>American History</b>		
Choose from nine hours of the following: <sup>1</sup>		9
HIS 802A	Historical Research and Writin <sup>2</sup>	
HIS 860	Readings in American History:	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>European History</b>		
Choose from six hours of the following: <sup>1</sup>		6
HIS 802B	Historical Research in Writing <sup>2</sup>	
HIS 861	Readings in European History:	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>Asian, African or Latin American History</b>		
Choose from three hours of the following: <sup>1</sup>		3
HIS 802C	Historical Research and Writin <sup>2</sup>	
HIS 862	Reading in Asian/African His:_	
HIS 863	Readings in Latin American His	
HIS 849	Reading and Research:_____ (if topic is appropriate)	
HIS 864	Comparative History:_____ (if topic is appropriate)	
HIS 865	Conceptualizing History:_____ (if topic is appropriate)	
<b>Applied History</b>		
HIS 838 or HIS 839	Practicum in Applied History Co-op Study in Applied History	9
<b>Exit Requirements</b>		
GRD 857G	MA Hist Written Comp Exam	0

GRD 858H	MA Hist Oral Comp Exit Exam	0
<b>Total Hours</b>		<b>30</b>

1

The department requires that at least one of the courses used to satisfy the eighteen credit hours represented by these three requirements cover in a substantial way a period before the year 1800.

2

The department requires successful completion of at least one of the following research seminars: HIS 802A Historical Research and Writin, HIS 802B Historical Research in Writing, or HIS 802C Historical Research and Writin.

## Exit Requirements

### Thesis (Thesis Plan only)

Each candidate must submit a thesis which demonstrates an appropriate level of skill in historical research and writing. Should the thesis topic selected require additional research skills (i.e. foreign language, statistics, or other), the candidate may be required by the graduate committee to acquire, through additional course work, the necessary skills. The student must complete six hours of thesis credit (HIS 899 Thesis) and may, if extra time is needed to complete the project, register for six additional hours of thesis credit, although this extra six hours does not count as part of the thirty total credit hours needed for completion of the History M.A. program. The thesis shall be submitted to the student's major professor at least 30 days in advance of graduation. Acceptance of the thesis shall be decided by a special reading committee. This committee shall be composed of the major professor and two other faculty members recommended by the chair of the major department and appointed by the Dean of Graduate Education and Research. The committee shall complete its review of the thesis at least one week prior to the final oral examination.

### Comprehensive Examination (Thesis Plan)

The program will culminate in a written comprehensive examination (GRD 857G MA Hist Written Comp Exam) designed to test the student's general knowledge of history and an oral defense of the thesis (GRD 858H MA Hist Oral Comp Exit Exam).

### Comprehensive Examination (Non-Thesis Plan)

Upon completion of course work, the student's knowledge of history will be tested by a comprehensive written examination (GRD 857G MA Hist Written Comp Exam). The program will culminate in an oral examination designed to test the student's mastery of graduate course work (GRD 858H MA Hist Oral Comp Exit Exam).

## The Institute for Creative and Collaborative Arts: Art, Communication, Music, and Design

- School of Art and Design (p. 775)
- School of Communication (p. 778)
- School of Music (p. 778)

## School of Art and Design

Executive Director  
Prof. Ida Kumoji-Ankrah

(859) 622-1629  
Campbell 309

The Master of Arts in Education degree and the Master of Arts Teaching degree with a concentration in art are offered in the College of Education with the cooperation of the Department of Art. The regulations for the degrees may be found in the College of Education section of this *Catalog*.

## Master's

- Instructional Design and Learning Technology, Master of Science with a Concentration in Online Learning Design (M.S.) (p. 776)
- Instructional Design and Learning Technology, Master of Science with a Concentration in User Experience Design (M.S.) (p. 777)

## Certificate

- Online Learning Design, Certificate (p. 777)
- User Experience Design, Certificate (p. 777)

## Courses

### Design

#### DES 721. Analytical Furniture Design. (3 Credits)

A. Analysis of furniture design in terms of integration of function and styles with structure; coordination of furniture style with interior architectural expression.

#### DES 850. Graphic Design for Learning. (3 Credits)

(3) I, II. Introduction to the elements and principles of design, methods, tools and software used in the field of graphic design.

#### DES 851. User Experience Design. (3 Credits)

(3) I, II. Introduction to the processes and methods of User Experience Design, including user research, contextual design, design thinking, ideation, and prototyping of a service or product.

## Instructional Design Learning

#### IDL 800. Intro to Instructional Design. (3 Credits)

(3) I, II. A comprehensive introduction to the process, theories and profession of Instructional Design.

#### IDL 801. Instructional Design Mastery. (3 Credits)

(3) I, II. Prerequisite: IDL 800. Application of design theory, implementation of instructional lessons, selection of suitable instructional technology, evaluation of learners and instructional products, and instruction implementation.

#### IDL 802. Data-Driven Decision Making. (3 Credits)

(3) I, II. Data collection and analysis techniques involved in making sound instructional/training and development decisions in organizations.

#### IDL 810. Multimedia for Learning. (3 Credits)

(3) A. Exploration, design, and creation of multimedia products that support sound instructional practices.

#### IDL 811. Online Learning Design. (3 Credits)

(3) A. Exploration of the modern principles and practices that drive effective online learning, analysis of structure and interaction of online courses to create meaningful online experiences.

#### IDL 812. Game Design for Learning. (3 Credits)

(3) I, II. Application of game design in creating instructional materials, development of various gaming concepts, and experiences in gamified learning.

**IDL 813. Instruction for Diverse Learners. (3 Credits)**

(3) A. Exploration of design learning experiences while considering diverse audiences and environments, learner characteristics, training theories, and deployment of tested instructional strategies to improve learning outcomes.

**IDL 814. Training the Modern Workforce. (3 Credits)**

(3) I, II. Prerequisite: IDL 802. Examining professional development components of workforce training, training programs, and responding to the changing organizational needs.

**IDL 820. Field Internship. (3 Credits)**

(3) A. Prerequisites: Completion of 2 out of 10 program courses (6 credits) and departmental approval. Guided internship designed to afford opportunities for the IDLT students to practice learned lessons in highly successful environments and collaborate with peers and mentors who have practical experience to share.

**IDL 821. Portfolio and Exit Review. (3 Credits)**

(3) A. Prerequisites: Completion of nine program-required courses (27 credits) and departmental approval. Culmination of studies and experiences in IDLT. Creation of a professional web portfolio that showcases student's most significant work and internship experiences.

**IDL 890. Independent Study. (3 Credits)**

(3) A. Prerequisite: Approved Independent Study Proposal Form and Departmental Approval. Faculty Guided Independent research, which allows students to design a research problem and make experimental observations and conclusions. Students will perform in-depth research pertinent to IDLT and craft a project based on their investigation.

## Instructional Design and Learning Technology, Master of Science with a Concentration in Online Learning Design (M.S.)

### General Information

The master's degree in Instructional Design and Learning Technology prepares students to efficiently enter the profession as those who employ systematic, evidence-based approaches to designing and developing instructional products and experiences across multiple diverse environments. Students will acquire not only specialized foundational and theoretical knowledge of the field, but also hone relevant, industry-accepted skills while making connections with current practitioners. Because nearly every course culminates in development of a professional instructional product, students can be assured they are gaining relevant experience as well as curating a demonstrable portfolio showcasing their talents and abilities, a critical factor in many hiring decisions.

### Admission Requirements

Applicants for admission to the Master of Instructional Design and Learning Technology program must:

1. Meet all admission requirements of the Graduate School;
2. Hold a bachelor's or masters' degree
3. Have a 2.5 overall undergraduate GPA. Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Applicants with Masters' degree can submit undergraduate or graduate transcripts.

4. Submit 2 letters of recommendation;
5. Write a letter of intent on why they want to pursue this degree.

### International Students

Applications from international students are encouraged to apply to the program. Refer to the University admission guidelines for admitting international students found here: [https://gradschool.eku.edu/intl\\_students](https://gradschool.eku.edu/intl_students) ([https://gradschool.eku.edu/intl\\_students/](https://gradschool.eku.edu/intl_students/))

### Program Requirements

Code	Title	Hours
<b>Core Courses</b>		
IDL 800	Intro to Instructional Design	3
IDL 801	Instructional Design Mastery	3
IDL 802	Data-Driven Decision Making	3
IDL 820	Field Internship <sup>1</sup>	3
IDL 821	Portfolio and Exit Review	3
<b>Electives</b>		
Choose from 15 hours of the following: <sup>2</sup>		15
IDL 810	Multimedia for Learning	
IDL 811	Online Learning Design	
IDL 812	Game Design for Learning	
IDL 813	Instruction for Diverse Learners	
IDL 814	Training the Modern Workforce	
DES 850	Graphic Design for Learning	
DES 851	User Experience Design	
ENG 840	Foundations in ProTech Writing	
PSY 790	Tests & Measurements	
Advisor approved elective		
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12
Online Learning Design		
User Experience Design		
<b>Total Hours</b>		<b>42</b>

1

Current working professionals in the instructional design, training and learning development, or other similar fields may take another elective in lieu of completing the internship (IDL 820 Field Internship). (Please contact the department head regarding the waiver process.)

2

Some of the elective courses listed above are grouped to provide two concentrations to meet the student's professional needs/interests.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
IDL 810	Multimedia for Learning	3
IDL 811	Online Learning Design	3
IDL 813	Instruction for Diverse Learners	3
IDL 814	Training the Modern Workforce	3
<b>Total Hours</b>		<b>12</b>

# Instructional Design and Learning Technology, Master of Science with a Concentration in User Experience Design (M.S.)

## General Information

The master's degree in Instructional Design and Learning Technology prepares students to efficiently enter the profession as those who employ systematic, evidence-based approaches to designing and developing instructional products and experiences across multiple diverse environments. Students will acquire not only specialized foundational and theoretical knowledge of the field, but also hone relevant, industry-accepted skills while making connections with current practitioners. Because nearly every course culminates in development of a professional instructional product, students can be assured they are gaining relevant experience as well as curating a demonstrable portfolio showcasing their talents and abilities, a critical factor in many hiring decisions.

## Admission Requirements

Applicants for admission to the Master of Instructional Design and Learning Technology program must:

1. Meet all admission requirements of the Graduate School;
2. Hold a bachelor's or masters' degree;
3. Have a 2.5 overall undergraduate GPA. Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Applicants with Masters' degree can submit undergraduate or graduate transcripts.
4. Submit 2 letters of recommendation;
5. Write a letter of intent on why they want to pursue this degree.

## International Students

Applications from international students are encouraged to apply to the program. Refer to the University admission guidelines for admitting international students found here: [https://gradschool.eku.edu/intl\\_students](https://gradschool.eku.edu/intl_students) ([https://gradschool.eku.edu/intl\\_students/](https://gradschool.eku.edu/intl_students/))

## Program Requirements

Code	Title	Hours
<b>Core Courses</b>		
IDL 800	Intro to Instructional Design	3
IDL 801	Instructional Design Mastery	3
IDL 802	Data-Driven Decision Making	3
IDL 820	Field Internship <sup>1</sup>	3
IDL 821	Portfolio and Exit Review	3
<b>Electives</b>		
Choose from 15 hours of the following: <sup>2</sup>		15
IDL 810	Multimedia for Learning	
IDL 811	Online Learning Design	
IDL 812	Game Design for Learning	
IDL 813	Instruction for Diverse Learne	
IDL 814	Training the Modern Workforce	
DES 850	Graphic Design for Learning	
DES 851	User Experience Design	

ENG 840	Foundations in ProTech Writing	
PSY 790	Tests & Measurements	
Advisor approved elective		
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12
Online Learning Design		
User Experience Design		
<b>Total Hours</b>		<b>42</b>

<sup>1</sup>

Current working professionals in the instructional design, training and learning development, or other similar fields may take another elective in lieu of completing the internship (IDL 820 Field Internship). (Please contact the department head regarding the waiver process.)

<sup>2</sup>

Some of the elective courses listed above are grouped to provide two concentrations to meet the student's professional needs/interests.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
DES 850	Graphic Design for Learning	3
DES 851	User Experience Design	3
IDL 812	Game Design for Learning	3
IDL 813	Instruction for Diverse Learne	3
<b>Total Hours</b>		<b>12</b>

## Online Learning Design, Certificate

Persons with a baccalaureate degree from an accredited institution may earn a 12-hour non-degree graduate certificate in the following area. This certificate is granted by Eastern Kentucky University. The certificate courses overlap with courses in the M.S. Concentrations and may be applied to the M.S. degree.

## Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
IDL 810	Multimedia for Learning	3
IDL 811	Online Learning Design	3
IDL 813	Instruction for Diverse Learne	3
IDL 814	Training the Modern Workforce	3
<b>Total Hours</b>		<b>12</b>

## User Experience Design, Certificate

Persons with a baccalaureate degree from an accredited institution may earn a 12-hour non-degree graduate certificate in the following area. This certificate is granted by Eastern Kentucky University. The certificate courses overlap with courses in the M.S. Concentrations and may be applied to the M.S. degree.

## Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
DES 850	Graphic Design for Learning	3
DES 851	User Experience Design	3
IDL 812	Game Design for Learning	3
IDL 813	Instruction for Diverse Learne	3
<b>Total Hours</b>		<b>12</b>

## School of Communication

Dr. Ginny Whitehouse, Director  
(859) 622-6564 or 622-1871  
Combs 317

The School of Communication provides courses at the graduate level in public relations and communication. Students receiving graduate credit in these courses must meet additional specified requirements.

## School of Music

Dr. Joseph Carucci, Chair

www.music.eku.edu (<http://www.music.eku.edu>)  
(859) 622-3266

## General Information

The EKU School of Music offers the Master of Music degree with concentrations in Performance, Pedagogy/Performance, Theory/Composition, Choral Conducting, Instrumental Conducting, and Music Education.

### Program Objectives

Upon successful completion of the Master of Music program, graduates will be prepared to analyze and evaluate all forms of music, teach, write or perform in a specific genre of music, and research in depth in several fields of music.

In addition, all music education majors will demonstrate the ability to write and research in their field as well as teach a variety of instruments/voice types, develop music curricula, and engage in effective teaching practices. All theory and composition students will demonstrate both composition and analytical/theoretical skills and present original compositions in public recitals as well as researching in the field. All conducting students will demonstrate rehearsal skills, research literature for an array of ensembles, and demonstrate an ability to work with other musicians through cooperative learning experiences. All performance majors will prepare a performance recital, research and analyze repertoire presented on the recital, in addition to demonstrating different pedagogical approaches in their area. All pedagogy and performance majors will demonstrate the ability to analyze student performances and engage in effective teaching practices for the improvement of student performance as well as prepare and present their own performance recital with repertoire that has been thoroughly researched and presented with correct performance practice.

Graduates of the Master of Music program are prepared to further their education at doctoral schools across the country, teach/conduct in college/public schools, teach/conduct in the church music field, compose or arrange, perform/conduct in theatrical/operatic settings, in U.S.

service bands, in professional orchestras, or a combination of several areas.

## Master's

- Master of Music with a Concentration in Conducting (M.M.) (p. 780)
- Master of Music with a Concentration in Music Education (M.M.) (p. 781)
- Master of Music with a Concentration in Performance (M.M.) (p. 781)

## Courses

### MUS 701. Music Leadership. (2 Credits)

(2) II. Development of music leadership skills for the 21st century. Leadership styles, digital marketing, grant writing, and policy development will be addressed.

### MUS 710. Special Topics in Music:\_\_\_\_. (1-3 Credits)

A. Prerequisite: MUS 480 or equivalent, or departmental approval. Advanced topics in music. May be retaken to a maximum of six hours, provided the topics are different.

### MUS 710S. Special Topics in Music:\_\_\_\_. (1-3 Credits)

A. Prerequisite: Departmental approval. Advanced topics in music that incorporates a service learning component. May be retaken to a maximum of six hours, provided the topics are different. Credit will not be awarded for both MUS 710 and 710S.

### MUS 711. Jazz Theory. (2 Credits)

(2) I. Study of musical concepts relating to the jazz idiom. Credit will not be awarded for both MUS 511 and 711.

### MUS 712. Piano V. (1-4 Credits)

I, II. May not be taken for credit by piano majors.

### MUS 713. Techniques of Accompanying. (1 Credit)

I, II. Practical training in the tradition, interpretation, and execution of accompaniments. May be retaken to a maximum of two hours.

### MUS 716. Studio Management. (1 Credit)

(1) II. Pre-requisite: departmental approval. This course explores business practices and administrative duties of managing an applied music studio. Credit will not be awarded to students who have credit for MUS 516 and 816.

### MUS 717. Arranging. (2 Credits)

(2) I. A study of the practical skills and fundamental knowledge needed to arrange music for instruments and/or voices in various ensemble configurations. Credit will not be awarded for both MUS 517 and 717.

### MUS 719. Performance Temperament. (2 Credits)

(2). A. Condition students for optimal public performance. Strategies for artful and effective practicing/preparation, maintaining motivation, as well as confronting performance anxieties and achieving peak performance. Credit will not be awarded for both MUS 519 and 719.

### MUS 720. Advanced Diction for Singers. (1 Credit)

A. Prerequisite: departmental approval. For voice, education, and choral conducting students. Enunciation and projection; accurate pronunciation in German and French. Phonetics and the International Phonetic Alphabet.

### MUS 722. Voice V. (1-4 Credits)

I, II. May not be taken for credit by voice majors.

### MUS 742. Organ V. (1-4 Credits)

I, II. May not be taken for credit by organ majors.

**MUS 749. Career Development in Music. (2 Credits)**

(2) Development of the professional skills necessary for a sustainable career in music. Selfmarketing, business and finance, networking, and interviewing topics will be explored. Creation of professional documents needed for personal promotion in the industry. Credit will not be awarded for both MUS 749 and 549.

**MUS 750. Teaching Techniques. (1 Credit)**

A. Analysis of current teaching methods and materials with the intention of developing sound teaching procedures. May include observation and performance. Topics in woodwinds, brass, percussion, strings, voice, piano, and organ. Credit will not be awarded for both MUS 550 and 750.

**MUS 751. Performance Literature. (1 Credit)**

A. Literature for various performing media relative to performance practices and problems. Topics in woodwinds, brass, percussion, strings, voice, piano and organ. Credit will not be awarded for both MUS 551 and 751.

**MUS 755. Symphonic Music Literature. (3 Credits)**

II. Prerequisite: MUS 371 and 372. Evolution of the symphony from its beginning to the 20th century with emphasis on score reading and listening.

**MUS 756. Choral Music Literature. (2 Credits)**

II. Survey of choral music literature from the 15th century to the present.

**MUS 757. Symphonic and Wind Band Litera. (2 Credits)**

(2).I. Evolution of instrumental music from its beginning to modern day. Includes a detailed exploration of music and the many artistic, social, and cultural forces that helped to shape these genres.

**MUS 786. Workshop in Instrumental Music. (1-4 Credits)**

A. Topics in band or orchestra procedures. May be retaken to a maximum of four hours.

**MUS 788. Pedagogy of Theory. (2 Credits)**

A. Comparative study of theory systems with emphasis on presentation and illustrative exercises dealing with related theoretical problems.

**MUS 789. Workshop in Choral Music. (1-4 Credits)**

A. Techniques, literature, and materials pertinent to a particular area or areas of preparation and performance of choral music. Topics to be announced. May be retaken to a maximum of four hours.

**MUS 802. Assessment in Music. (2 Credits)**

(2). A. Principles and procedures in assessing musical skills, attitudes, aptitudes, and understandings. Topics include assessment development and analysis, addressing the scope of psychomotor, cognitive, and affective domains related to music education.

**MUS 803. Learning & Behavi Mod in Music. (2 Credits)**

(2). II. Methods and techniques of teaching and behavior modification specific to music ensemble and classroom settings. Topics include social and academic behavior, and the application of research-based techniques to lesson planning, and student assessment.

**MUS 805. Chamber Music. (0.5 Credits)**

A. May be retaken to a maximum of one hour.

**MUS 812. Piano. (1-5 Credits)**

I, II. Prerequisite: MUS 412. Four years or equivalent, as demonstrated by the student's proficiency in piano. May be retaken.

**MUS 822. Voice. (1-5 Credits)**

I, II. Prerequisite: MUS 422. Four years or equivalent, as demonstrated by the student's proficiency in voice. May be retaken.

**MUS 824. Chamber Singers. (1 Credit)**

Highly select small ensemble dedicated to the highest standards of preparation and choral literature from all style periods. Membership is by audition only. May be retaken to a maximum of four credits.

**MUS 825. Concert Choir. (1 Credit)**

Large mixed chorus open to all singers. This choir places and emphasis on developing sight reading and performance skills while providing a challenging and satisfying musical experience. Course may be retaken.

**MUS 826. University Singers. (1 Credit)**

I, II. Advanced choral ensemble of mixed voices open by audition only. Rehearsal and performance of choral repertoire from various styles and eras. Presents several major concerts throughout the year on and off campus. Course may be retaken.

**MUS 827. Opera Workshop. (1 Credit)****MUS 828A. EnChor (SSAA Choir). (1 Credit)**

(0-1) I, II. Choral ensemble of soprano/mezzo/alto voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Course may be retaken.

**MUS 828B. Koros (TTBB Choir). (1 Credit)**

(0-1) I, II. Choral ensemble of tenor/baritone/bass voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Course may be retaken.

**MUS 832. String Instruments. (1-5 Credits)**

I, II. Four years or equivalent as demonstrated by the student's proficiency on string instruments. Graduate applied instruction in violin, viola, violoncello, string bass, viola da gamba or guitar. May be retaken.

**MUS 835. Orchestra. (1 Credit)**

I, II. May be retaken to a maximum of two hours.

**MUS 842. Organ. (1-5 Credits)**

I, II. Prerequisite: MUS 442. Four years or equivalent, as demonstrated by the student's proficiency on organ. May be retaken.

**MUS 844. Applied Conducting. (1 Credit)**

(1) A. Exploration and enhancement of all elements of the conductor's being, in conjunction with exploring conducting pedagogy and skills, leadership, score study, and one's own awareness of their self-projection in front of an ensemble.

**MUS 845. Brass Instruments. (1-5 Credits)**

I, II. Prerequisite: MUS 445. Four years or equivalent, as demonstrated by the student's proficiency on brass instruments. Graduate applied instruction in cornet and trumpet, French horn, baritone horn, trombone, or tuba. May be retaken.

**MUS 846. Woodwind Instruments. (1-5 Credits)**

I, II. Prerequisite: MUS 446. Four years or equivalent, as demonstrated by the student's proficiency on woodwind instruments. Graduate applied instruction in flute, oboe, clarinet, bassoon, or saxophone. May be retaken.

**MUS 847. Percussion. (1-5 Credits)**

I, II. Prerequisite: MUS 447 or equivalent, as demonstrated by the student's proficiency in percussion. May be retaken.

**MUS 850. Small ensembles. (0.5 Credits)**

I, II. May be retaken to a maximum of one hour.

**MUS 851. Advanced Woodwind Techniques. (3 Credits)**

A. Prerequisites: MUS 351 and 352 or instructor approval. Techniques, literature and pedagogical approaches to teaching woodwind instruments in public schools.

**MUS 854. Jazz Ensemble. (1 Credit)**

(0-1) I,II. Rehearsal and performance of standard Jazz Ensemble literature including jazz improvisation, jazz styles, and form. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 855. Band. (1 Credit)**

I, II. May be retaken to a maximum of two hours.

**MUS 873. Music in Society. (3 Credits)**

(3) II. A survey of the roles that music and musicians have had in societies, from past to present. The social and cultural foundations of music will be explored, including the production, content, and consumption of music.

**MUS 878. Foundations of Music. (3 Credits)**

A. Historical and philosophical foundations of music and music pedagogy. Diverse trends are compared with emphasis on materials and personal development in music for the general music specialist.

**MUS 881. Seminar in Choral Conducting. (1 Credit)**

I. The study of non-gestural issues in the field of choral conducting, including auditions, choral tone, programming, recruiting, standing formations, touring, voicing, and warm-ups.

**MUS 882. Seminar in Instrume Conducting. (1 Credit)**

II. The study of gestural and non-gestural issues in the field of instrumental conducting, including auditions, instrument and ensemble color, performance practice, rehearsal techniques, ensemble set-up, warm-ups, and other special topics.

**MUS 883. Sem:Choral/Instrum Conducting. (2 Credits)**

A. Techniques in the preparation, conducting, and performance of choral/instrumental music. Survey of high school and college choral or instrumental literature.

**MUS 885. Psychology of Music. (3 Credits)**

A. Reactions to musical stimuli; musical aptitude and achievement; application of psychological theories to musical learning.

**MUS 887. Analytical Techniques I. (3 Credits)**

A. Prerequisite: MUS 884 or equivalent. Significant forms, procedures, and compositional devices relevant to the major stylistic periods from the Renaissance to the Contemporary.

**MUS 889. Advanced Composition I. (2 Credits)**

A. Prerequisite: MUS 483 or equivalent, or departmental approval. Individual guidance in the exploration of advanced compositional techniques with emphasis on larger forms, May be retaken to a maximum of four hours.

**MUS 896. Spec Proj in Comp, Pedagogy. (1-3 Credits)**

I, II. Requirement for the Master of Music in composition, pedagogy, music education, pedagogy, choral conducting and instrumental conducting. May be elected by other Master of Music concentrations. May be fulfilled by composition, analytical paper, or conducting recital. May be retaken to a maximum of three credit hours.

**MUS 897. Graduate Recital. (2,3 Credits)****MUS 898. Research in Mus & Mus Educ. (3 Credits)**

A. Research techniques appropriate to music and music education; principles of research design; organization of the research report; analysis of representative research.

**MUS 899. Thesis. (1-3 Credits)**

I, II. May be retaken to a maximum of three credit hours.

# Master of Music with a Concentration in Conducting (M.M.)

## Admission Requirements

Applicants for admission to the Master of Music program must:

1. Meet all admission requirements of the Graduate School;
2. Hold a bachelor's degree in music or certification in music from an accredited institution;
3. Have a 2.5 overall undergraduate GPA;
4. Submit 2 letters of recommendation;
5. Demonstrate competent applied music skills through a performance audition for either applied study or for admission to music ensembles.

Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 144 on the Verbal and 3.0 on the Analytical Writing sections of the exam.

## Admission Requirements for Individual Concentrations Conducting Concentration

Candidates who pass a pre-screening video audition will be invited to campus for a live audition with a university ensemble before a committee of music faculty, and must possess either an undergraduate degree in music from an accredited institution or equivalent course work.

## Program Requirements

CIP Code: 50.0901

Code	Title	Hours
<b>Core Courses</b>		
MUS 873	Music in Society	3
MUS 898	Research in Mus & Mus Educ	3
MUS 887	Analytical Techniques I	3
	Choose from one of the following:	3
MUS 896	Spec Proj in Comp, Pedagogy	
MUS 897	Graduate Recital	
MUS 899	Thesis	
<b>Concentrations</b>		
	Students must select one of the following Concentrations:	12
	Performance	
	Conducting	
	Music Education	
<b>Electives</b>		
	Choose from six hours of electives	6
<b>Exit Requirements</b>		
GRD 857I	MM Music Written Comp Exam	0
	or GRD 858I	MM Music Oral Comp Exam
<b>Total Hours</b>		<b>30</b>

## Concentration

Code	Title	Hours
<b>Core Courses</b>		
	Conducting concentration will elect:	

MUS 896	Spec Proj in Comp, Pedagogy	
<b>Concentration Courses</b>		
MUS 844	Applied Conducting	4
MUS 757	Symphonic and Wind Band Litera	2
MUS 756	Choral Music Literature	2
MUS 881	Seminar in Choral Conducting	1
MUS 882	Seminar in Instrume Conducting	1
MUS 701	Music Leadership	2
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

### Comprehensive Examination

The program will be culminated by a written or oral comprehensive examination testing the candidate's general knowledge of music (GRD 857I MM Music Written Comp Exam or GRD 858I MM Music Oral Comp Exam). Performance majors must have their recital hearing forms complete at the time the comprehensive exam is scheduled.

### Thesis

The thesis is optional in this program.

## Master of Music with a Concentration in Music Education (M.M.)

### Admission Requirements

Applicants for admission to the Master of Music program must:

1. Meet all admission requirements of the Graduate School;
2. Hold a bachelor's degree in music or certification in music from an accredited institution;
3. Have a 2.5 overall undergraduate GPA;
4. Submit 2 letters of recommendation;
5. Demonstrate competent applied music skills through a performance audition for either applied study or for admission to music ensembles.

Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 144 on the Verbal and 3.0 on the Analytical Writing sections of the exam.

### Admission Requirements for Individual Concentrations

#### Music Education Concentration

Candidates must submit either passing PRAXIS II specialty area exam in music, undergraduate papers in music, or an undergraduate music portfolio. Candidates must possess either an undergraduate degree in music from an accredited institution or equivalent course work.

### Program Requirements

CIP Code: 50.0901

Code	Title	Hours
<b>Core Courses</b>		
MUS 873	Music in Society	3
MUS 898	Research in Mus & Mus Educ	3
MUS 887	Analytical Techniques I	3

Choose from one of the following:		3
MUS 896	Spec Proj in Comp, Pedagogy	
MUS 897	Graduate Recital	
MUS 899	Thesis	

### Concentrations

Students must select one of the following Concentrations:	12
Performance	
Conducting	
Music Education	

### Electives

Choose from six hours of electives	6
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### Exit Requirements

GRD 857I	MM Music Written Comp Exam	0
or GRD 858I	MM Music Oral Comp Exam	

<b>Total Hours</b>	<b>30</b>
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### Concentration

Code	Title	Hours
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#### Core Courses

Music Education concentration will elect:

MUS 896	Spec Proj in Comp, Pedagogy
or MUS 899	Thesis

#### Concentration Courses

MUS 878	Foundations of Music	3
MUS 885	Psychology of Music	3
MUE 702	Music Tech Teaching Methods	2
MUS 802	Assessment in Music	2
MUS 803	Learning & Behavi Mod in Music	2

<b>Total Hours</b>	<b>12</b>
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## Exit Requirements

### Comprehensive Examination

The program will be culminated by a written or oral comprehensive examination testing the candidate's general knowledge of music (GRD 857I MM Music Written Comp Exam or GRD 858I MM Music Oral Comp Exam). Performance majors must have their recital hearing forms complete at the time the comprehensive exam is scheduled.

### Thesis

The thesis is optional in this program.

## Master of Music with a Concentration in Performance (M.M.)

### Admission Requirements

Applicants for admission to the Master of Music program must:

1. Meet all admission requirements of the Graduate School;
2. Hold a bachelor's degree in music or certification in music from an accredited institution;
3. Have a 2.5 overall undergraduate GPA;
4. Submit 2 letters of recommendation;

5. Demonstrate competent applied music skills through a performance audition for either applied study or for admission to music ensembles.

Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 144 on the Verbal and 3.0 on the Analytical Writing sections of the exam.

## Admission Requirements for Individual Concentrations

### Performance Concentration

Candidates must audition before a committee of music faculty (recorded auditions may be allowed); and must possess an undergraduate degree in music from an accredited institution.

**Note:** Voice candidates in their audition must include works in French, Italian, and German and must have either a demonstrated competency or at least two semesters of undergraduate course work in any one language—French, Italian, or German. Candidates will also show two semesters of diction study and a vocal pedagogy course at the undergraduate level. Those who have not completed undergraduate foreign language, diction or pedagogy requirements will complete them as part of the Masters degree. The undergraduate language credits will not count as credit toward the MM degree, diction and pedagogy (MUS 720 Advanced Diction for Singers and MUS 750 Teaching Techniques) may count toward the MM degree electives.

## Program Requirements

CIP Code: 50.0901

Code	Title	Hours
<b>Core Courses</b>		
MUS 873	Music in Society	3
MUS 898	Research in Mus & Mus Educ	3
MUS 887	Analytical Techniques I	3
Choose from one of the following:		3
MUS 896	Spec Proj in Comp, Pedagogy	
MUS 897	Graduate Recital	
MUS 899	Thesis	
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12
Performance		
Conducting		
Music Education		
<b>Electives</b>		
Choose from six hours of electives		6
<b>Exit Requirements</b>		
GRD 8571	MM Music Written Comp Exam	0
or GRD 8581	MM Music Oral Comp Exam	
<b>Total Hours</b>		<b>30</b>

## Concentration

Code	Title	Hours
<b>Core Courses</b>		
Performance concentration will elect:		
MUS 897	Graduate Recital	
<b>Concentration Courses</b>		

Applied Lessons		4
Ensembles		2
MUS 750	Teaching Techniques	1
MUS 751	Performance Literature	1
MUS 757	Symphonic and Wind Band Litera	2
or MUS 756	Choral Music Literature	
MUS 701	Music Leadership	2
<b>Total Hours</b>		<b>12</b>

## Exit Requirements

### Comprehensive Examination

The program will be culminated by a written or oral comprehensive examination testing the candidate's general knowledge of music (GRD 8571 MM Music Written Comp Exam or GRD 8581 MM Music Oral Comp Exam). Performance majors must have their recital hearing forms complete at the time the comprehensive exam is scheduled.

### Thesis

The thesis is optional in this program.

## Department of Language & Cultural Studies, Anthropology, and Sociology

Dr. Abbey Poffenberger, Chair

[www.foreignlanguages.eku.edu](http://www.foreignlanguages.eku.edu) (<http://www.foreignlanguages.eku.edu>)  
(859) 622-2996

The Department of Languages & Cultural Studies, Anthropology, and Sociology cooperates with the College of Education in offering the Master of Arts in Teaching with the concentration in Spanish. The program is described in the College of Education section of this *Catalog*.

## Department of Psychology

Dr. Hung-Tao Michael Chen, Interim Chair

Dr. Dustin Wygant, Director of Clinical Training

Dr. Robert Mitchell, Coordinator, General Psychology with Experimental Concentration

Dr. MyraBeth Bundy, Coordinator, General Psychology with Applied Behavior Analysis Concentration

Dr. Jaime Henning, Coordinator, I/O Psychology

[www.psychology.eku.edu](http://www.psychology.eku.edu) (<http://www.psychology.eku.edu>)  
(859) 622-1105

## General Information

The Department of Psychology offers the Master of Science degree in Clinical Psychology, Industrial and Organizational Psychology, and General Psychology (with a Concentration in either Experimental Psychology or Applied Behavior Analysis), and the Doctor of Psychology (Psy.D) degree in Clinical Psychology. Clinical psychology students may apply for the Autism Spectrum Disorder Certificate, offered in cooperation with the Department of Occupational Therapy and Special Education. Requirements for this certificate can be found below. Students holding a Master's Degree may apply for the Applied Behavior Analysis Certificate.

## Doctoral

- Clinical Psychology, Doctor in Psychology (Psy. D.) (p. 791)

## Master's

- Clinical Psychology Program, Master of Science (M.S.) (p. 790)
- General Psychology, Master of Science with a Concentration in ABA (M.S.) (p. 791)
- General Psychology, Master of Science with a Concentration in Experimental Psychology (M.S.) (p. 792)
- Industrial and Organizational Psychology, Master of Science (M.S.) (p. 793)

## Certificate

- Applied Behavioral Analyst Certification (p. 789)
- Autism Spectrum Disorder Certificate (p. 789)

## Courses

### Occupational Therapy

#### OTS 715. Early Child Sensorimotor Devel. (3 Credits)

A. Prerequisite: education major or degree or instructor's approval. Provides an overview of normal sensorimotor development in infants and young children. Includes contrasting normal/ abnormal development and application of appropriate developmental tasks. Laboratory experiences will be provided.

#### OTS 720. Provid Hlth Serv in Appalachia. (3 Credits)

A. Prerequisite: departmental approval. An analysis of development and delivery of health care services in Appalachia. Examination of relevant current and historical factors, which have an impact on the health of the Appalachian people.

#### OTS 800. OBP: Early Childhood. (3 Credits)

(3) A. Evaluation and intervention related to occupational performance for individuals accessing health and education systems ages 0-5. Theory driven and client centered practices for supporting occupational performance.

#### OTS 804. Practice Experience Prep I. (3 Credits)

A. Preparation for Level II fieldwork, Applied Leadership Experience and Capstone.

#### OTS 805. Practice Experience Prep II. (3 Credits)

A Pre-req: OTS 804 and successful completion of Level II FW. Preparation for Applied Leadership Experience and Capstone.

#### OTS 810. OBP: Children and Youth. (3 Credits)

(3) A. Evaluating and intervention related to occupational performance in children ages 5-21 accessing health and education systems. Theory driven and client centered practices for supporting occupational performance.

#### OTS 815. OBP: Neurological. (3 Credits)

A. Evaluation and intervention related to preventing and remediating neurologic diagnoses. Theory driven and client centered practices for supporting occupational performance.

#### OTS 820. OBP: Fundamentals. (4 Credits)

(4) A. Corequisite: OTS 821. Foundational knowledge in occupation-based practice including philosophy, theory, context, process, and reasoning. Emphasis on active learning and reasoning skills.

#### OTS 821. Level I OT Experience. (3 Credits)

A. Integration and application of foundational knowledge of occupation-based practice through participation in varied practice experiences across a continuum of care. May be retaken to a maximum of 9 hours.

#### OTS 822. OBP: Health Care Practice 1. (4 Credits)

A. Corequisite: OTS 821. Lecture and lab to include theories, principles and methods of evaluation, intervention and outcome processes for individuals accessing health systems. Course will focus on engagement in occupation to support participation in life roles across the lifespan.

#### OTS 824. OBP: Health Care Practice 2. (4 Credits)

A. Prerequisites: OTS 821 and OTS 822. Continued study of theories, principles and methods of evaluation, intervention and outcome processes for individuals accessing health systems. Course will focus on engagement in occupation to support participation in life roles across the lifespan.

#### OTS 825. technology and Rehabilitation. (3 Credits)

A. Prerequisite: computer literacy or departmental approval. Advanced exploration of occupational therapy knowledge and skill about assistive technology. Emphasis on application and use of assistive technology to enhance occupational performance of individuals with disabilities.

#### OTS 830. OBP: Education Communities. (4 Credits)

A. Prerequisites: OTS 824 and OTS 832. Corequisite: OTS 871. Occupation-based assessment and intervention for children and young adults in educational contexts. Course addresses models of practice, service delivery, federal/state legislation and philosophy of administration. Active learning experiences in the community.

#### OTS 831. Practice Seminar II. (2 Credits)

A. Prerequisite: OTS 821 or Corequisites: OTS 824 and OTS 832. Integration of occupation-based practice through reflection on curriculum themes, participation in community-based settings, preparation for Level II Fieldwork and ongoing development of a professional portfolio.

#### OTS 832. OBP: Community-Based Practice. (4 Credits)

A. Corequisite: OTS 831. Theories, principles and methods of evaluation, intervention and outcome processes for individuals and groups assessing social systems through the lifespan. Course will focus on engagement in occupation for community participation.

#### OTS 834. OBP: Advanced Dimensions. (3 Credits)

A. Prerequisite: permission of department. Advanced conceptualization and synthesis of Occupational Science and existing models of Occupational Therapy for practice. Includes analysis and application of occupation-based practice and evidence within specialty areas.

#### OTS 835. OT Intervention in Workplace. (3 Credits)

I, II, A. Prerequisite: OTS 820 or departmental approval. Exploration of the direct and indirect service roles and functions of the occupational therapist in the workplace. Emphasis will be on the work-related behaviors and environmental assessments for health promotion, prevention and work adjustment.

#### OTS 836. OBP: Optimizing Occupation. (3 Credits)

A. Prerequisite: graduate standing in the occupational therapy program; OTS 822, and 832. Specialized evaluation and intervention in occupational therapy practice with emphasis on emerging practice areas. Students will synthesize and apply skills of best practice for optimizing occupations.

#### OTS 837. UE Evaluation & Intervention. (3 Credits)

A. Prerequisite: OTS 822 or departmental approval. This course focuses on advanced study of the upper extremity including evaluation and treatment techniques in evidence-based occupational therapy practice.

**OTS 840. OBP: Mental Health. (3 Credits)**

A. Evaluation and intervention related to mental health conditions: Neurocognitive, psychosocial, and behavioral. Theory driven and client centered practices for supporting occupational performance.

**OTS 845. Health Care Practice Fieldwork. (6 Credits)**

A. Prerequisite: Successful completion of all didactic coursework or department approval. Twelve weeks of fieldwork in health care practice to promote systematic evaluation; diagnose occupational performance deficits; develop and implement intervention plans based on occupational profiles and evidence; measure client outcomes; and document findings.

**OTS 846. Community Practice Fieldwork. (3-5 Credits)**

I. Prerequisite: Successful completion of all didactic coursework. Six to ten-week fieldwork in community/education to promote systematic evaluation; diagnose occupational performance deficits; develop and implement intervention plans based on occupational profiles and evidence; measure client outcomes; and document findings.

**OTS 846S. Early Childhood Practice. (3 Credits)**

Prerequisite: OTS820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes therapeutic interventions in early childhood through service learning.

**OTS 847. Emerging Practice Fieldwork. (1-3 Credits)**

Prerequisite: Successful completion of all didactic coursework. Two to six week fieldwork in an emerging or traditional practice settings to develop/refine skills. Includes online reflective seminar.

**OTS 850. Management Principles for OT. (3 Credits)**

A. Principles of supervision, collaboration, strategic planning, and developing, funding, and managing an occupational therapy practice.

**OTS 851. Strategic Communication in OT. (3 Credits)**

A. Prerequisite: undergraduate/graduate course in administration or consent of instructor. Study of change theory and factors affecting communication in practice settings.

**OTS 852. OT Serv in Mental Hlth Setting. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Examination of external forces influencing mental health services and models of occupational therapy service delivery, emphasizing community-based and rural health programs.

**OTS 853. Leadership in Human Services. (3 Credits)**

A. Advance ethical leadership skills through development and application of current leadership theory to become a change agent to positively impact the profession.

**OTS 855. Role of OT & the Aging Adult. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of occupational therapy's role in delivering services to the aging adult in emerging/innovative programming. Identification and analysis of factors which promote/hinder quality of life.

**OTS 855S. Role of OT & the Aging Adult. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of occupational therapy's role in delivering services to the aging adult in emerging/innovative programming. Identification and analysis of factors which promote/hinder quality of life. Credit will not be awarded for both OTS 855 and 855S.

**OTS 860. OBP: Emerging Practice. (3 Credits)**

A. Evaluation and intervention related to emerging areas of occupational therapy practice, including assistive technology. Theory driven and client centered practices for supporting occupational performance.

**OTS 862. Thera. Modalities in OT Pract. (3 Credits)**

Addresses occupational therapy theoretical principles, neurophysiological and electrophysical changes that occur as a result of the application of selected physical and electrical modalities. Students will develop skill in the application of these modalities.

**OTS 863. Occupation & Sensory Process. (3 Credits)**

A. Understanding the impact of sensory processing disorders on occupational natures will enable students to provide appropriate intervention. Occupational adaptation and sensory integrative theories will be applied as conceptual frameworks for occupational therapy intervention.

**OTS 864. Early Childhood Practice. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes the interdisciplinary nature of therapy service delivery in the early childhood.

**OTS 864S. Early Childhood Practice. (3 Credits)**

(A) Prerequisite: OTS 820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes therapeutic interventions in early childhood through service learning.

**OTS 865. School-based Practice. (3 Credits)**

A. Prerequisite: Departmental approval. In-depth study of school-based therapy. Theories, principles, models of practice, and methods of therapy service delivery for students with learning and behavioral difficulties, within the context of state and federal laws.

**OTS 866. OT & Behavior Disorder in Sch. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Examination and application of occupational therapy theoretical models used in evaluation and intervention for this population and the external systems affecting service delivery.

**OTS 870. Profess Trends & Issues in OT. (3 Credits)**

I, II. Trends and issues impacting the occupational therapy profession. Advancement of professional roles of consultant, entrepreneur, educator, leader and researcher.

**OTS 871. Practice Seminar III. (2 Credits)**

A. Corequisite: OTS 830. Integration of occupation-based practice through reflection on curriculum themes, participation in community-based learning in education, preparation for Level II Fieldwork and completion of a professional portfolio.

**OTS 871S. Professional Seminar II. (3 Credits)**

A. Students assume leadership in learning communities, complete professional portfolios and participate in professional learning experiences. Credit will not be awarded for both OTS 871 and OTS 871S.

**OTS 875. Special Topics: \_\_\_\_\_ (1-3 Credits)**

Advanced study of selected topics in occupational therapy practice.

**OTS 880. Res in Occupational Therapy. (3 Credits)**

I, II, A. Exploration, critical analysis and application of research and evidence-based practice in occupational therapy. Emphasis on preparation and implementation of a research study.

**OTS 882. Advanced Occupational Science. (3 Credits)**

II. Exploration of occupational science as a disciplinary knowledge base, current research on occupation-based practice, and methods of developing occupation-based practice. Emphasis on change, clinical leadership and research.

**OTS 883. Change and Complexity in OBP. (3 Credits)**

A. Comprehensive critique of disciplinary literature describing professional applications of occupation. Deriving insights into occupation-based practice (OBP) through perspectives from history, systems, chaos, change, and complexity. Action and change research methods for the development of occupation-based practice.

**OTS 884. Qualitative Inquiry Approaches. (3 Credits)**

A. Prerequisite: Undergraduate course in research design. This course synthesizes the rationale, theoretical foundations, design, methods, analysis, and ethical issues related to qualitative research. Students analyze five approaches of qualitative inquiry, and develop a research prospectus.

**OTS 885. Occupational Perform. Measures. (3 Credits)**

A. Prerequisite: OTS 880 and occupational therapy graduate status or departmental approval. Analysis of clinical evaluation instrumentation. Review of measurement issues and use of instruments in evidence-based practice in occupational therapy. Integration into occupation-based practice.

**OTS 886. Culture and Diversity in OT. (3 Credits)**

A. Importance of culture and diversity in the understanding of health disparities in health care policy and OT practice. Global and national policy and program models for inclusion of culture, diversity and disability are highlighted.

**OTS 890. Independent Study in OT. (1-3 Credits)**

I, II, A. Prerequisite: advisor/departmental approval. Student initiated directed study. Regular consultation with faculty supervisor and final paper required. May be retaken under different subtopics to a cumulative maximum of six hours. Approval of independent study proposal by faculty supervisor and department chair must occur prior to enrollment.

**OTS 895. OT Research Project I. (3 Credits)**

(3) A Development and initiation of a research project as part of a research team. Application of critical thinking and clinical reasoning skills to investigate occupational science and occupational therapy research inquiries.

**OTS 896. Research Project II. (3 Credits)**

A. Prerequisite: OTS 895. Completion of a research project as part of a research team. Application of critical thinking and clinical reasoning skills to investigate occupational science and occupational therapy research inquiries and disseminate results.

**OTS 898. Thesis I. (3 Credits)**

I, II, A. Proposal development leading to thesis as directed by chair of thesis committee.

**OTS 899. Thesis II. (3 Credits)**

Research leading to thesis as directed by chair of thesis committee.

**OTS 899C. Thesis/Project Continuation. (1-3 Credits)**

I, II, A. Prerequisite: advisor/departmental approval. Continuation of research leading to thesis/ special project as directed by the chair of student's committee. May be retaken as necessary to complete research. May not be used to satisfy degree program requirements.

**OTS 901. OTD Leadership Seminar I. (3 Credits)**

A. Prerequisite: Enrollment in OTD Program. Foundational work for development of OTD capstone and Applied Leadership Experience. Conceptualize identity as a leader for change. Develop methods to assess population needs to improve occupation-based programming.

**OTS 902. OTD Leadership Seminar II. (3 Credits)**

A. Prerequisite or Corequisite: OTS 901. Explore options for professional development and leadership experiences. Assess population needs to support occupation-based programming.

**OTS 903. Capstone I: Project Developmnt. (3 Credits)**

(3) Prerequisite: OTS 902. Design capstone project based on needs assessment, literature synthesis, and professional goals to serve as a change agent for occupation-based programming. Capstone emphases are ethical leadership within change and OBP for diverse populations.

**OTS 904. Capstone II: Implmt and Eval. (3 Credits)**

(3) A. Prerequisite: OTS 903. Implement capstone project. Evaluate capstone project outcomes to assess change in occupation-based programming.

**OTS 905. Applied Leadership Experience. (3-6 Credits)**

(3-6) I, A. Prerequisites: OTS 805 or 902. Custom-designed field-based experiences in the Occupational Therapy Doctorate. Emphases are on ethical leadership within change and excellence in occupation-based services for diverse populations.

**OTS 906. OTD Capstone. (1-3 Credits)**

A. Prerequisite: OTS 805 or 904. Integration and application of program outcomes through reflection on Applied Leadership Experience and completion of the capstone project and portfolio. Students present capstone project.

**OTS 910. Policy and Advocacy for OT. (3 Credits)**

(3) A. Analysis of social and healthcare policy on the profession of occupational therapy. Program development to address health disparities, and advocacy needs in emerging practice.

**OTS 911. Applied Research for OT. (3 Credits)**

(3) I. Students will apply research methods, synthesize, paradigms, design, methods, and ethical issues related to research, and discuss funding options. The role of the researcher as an agent of change in practice will be emphasized.

**OTS 912. Evidence-based Practice for OT. (3 Credits)**

(3) II. Evaluate and perform critical research appraisals to justify intervention decisions. Content focuses on: Clinical Reasoning, outcomes measurement, finding evidence, changes in practice, ethics, and communicating evidence-based decisions to stakeholders.

**OTS 913. Educational Practices for OT. (3 Credits)**

(3) I. Prerequisite: Enrollment in the OTD Program. Fundamental principles of designing and implementing educational programs across the lifespan. Educational strategies and learning theories will be analyzed and applied to clinical, community, and didactic settings and populations.

## Psychology

**PSY 702. Behavioral Applications II. (3 Credits)**

Prerequisite: PSY 701. This course builds on principles of behavior analysis in creating behavior change across a range of populations, behaviors, and settings. The focus is on fundamental elements of behavior change.

**PSY 703. Practicum in Psychology. (1-3 Credits)**

A. Prerequisite: departmental approval. Practicum experience in which students will utilize their knowledge of psychological theory and methodology in an applied setting. Students will not receive credit for both PSY 503 and PSY 703. May be retaken to a maximum of 6 hours.

**PSY 710. Publishing Empirical Research. (3 Credits)**

(3) A. Prerequisite: Department approval. Students must submit proposals to instructor prior to enrollment. This course will focus on analyzing, writing and submitting results of a psychological study or experiment to a professional journal.

**PSY 713. Mind & Brain. (3 Credits)**

(3) A. Prerequisite: PSY 853(C) or departmental approval. A bridging discipline between cognitive science and biopsychology examining neural bases of consciousness, mental processes and complex behavior. Major topics include prefrontal cortex functioning, neural networks, decision making, working memory, emotional control, and frontal disconnections.

**PSY 766. Forensic Psychology. (3 Credits)**

A. Prerequisite: departmental approval. Review the roles of clinical psychologists in the legal system, focusing on principles of forensic mental health assessment, procedures of civil and criminal forensic psychological assessment, expert testimony, and forensic report writing.

**PSY 777. The Autism Spectrum. (3 Credits)**

A. Prerequisite: departmental approval. Assessment, diagnosis, and intervention in autism spectrum disorders across the lifespan. Conduct autism spectrum assessment and design interventions.

**PSY 779. History & Systems of Psychology. (3 Credits)**

A. A survey of the history of psychology and its various schools of thought and approaches to the study of behavior and mental processes.

**PSY 790. Tests & Measurements. (3 Credits)**

A. Prerequisite: PSY 200 or departmental approval. Study of measurement principles with application in psychology, business, industry, and government. Interpretation, use, and evaluation of measurement and job analysis methods. Reliability, validity, utility, ethical/legal concerns are examined.

**PSY 797. Advanced Topics in Psy.\_\_\_\_\_. (3 Credits)**

A. Prerequisite: PSY 200 or departmental approval. Selected topics for advanced study. Variable topics across semester in terms of student interest and available faculty. May be retaken provided the subject matter differs each time.

**PSY 802. Multicultural Psychology. (3 Credits)**

Prerequisite: Admission to the Psy. D. program. Designed to promote self-awareness of cultural values and biases, and increasing knowledge about how race, culture, gender, sexual orientation, and social class impact the professional relationship.

**PSY 803. Rural Mental Health. (3 Credits)**

Prerequisite: Admission to the Psy. D. program. This course is designed to provide an overview of rural mental health with an emphasis on addressing both geographic, economic, and cultural barriers to mental health care in rural communities.

**PSY 804. Introduction to I-O Psychology. (3 Credits)**

A. Prerequisite: departmental approval. Introduction to psychology theories and procedures applied to work. Topics include personnel psychology, organizational psychology, and ethical and legal concerns related to the practice of I-O Psychology.

**PSY 805. Quantitative Research Methods. (3 Credits)**

A. Prerequisite: departmental approval. Principles and techniques of scientific observation, control, and analysis in psychology. Evaluation of research designs and their implementation in professional settings.

**PSY 806. Applied Research Methods. (3 Credits)**

Prerequisite: Departmental Approval. Application of research methods, data analysis techniques, and reporting pertaining to the field of Industrial-Organizational psychology.

**PSY 807. Work Analysis. (3 Credits)**

A. Prerequisite: departmental approval. Psychological principles and techniques involved in job analysis, competency modeling, and job evaluation.

**PSY 808. Selection. (3 Credits)**

Prerequisite: Departmental Approval. Psychological theory, research, and practice pertaining to the personnel selection of human resources in the workplace.

**PSY 809. Performance Management. (3 Credits)**

A. Prerequisite: departmental approval. Psychological theory, research, and practice pertaining to the performance appraisal and performance management of human resources in the workplace.

**PSY 810. Consulting and Business Skills. (3 Credits)**

Prerequisite: Departmental Approval. Developing consulting skills including proposal development, project management, process improvement, contracting, conflict resolution, and networking.

**PSY 811. Professional Development. (3 Credits)**

Prerequisite: Departmental Approval. Developing personal effectiveness including skills in writing, communication, facilitating, leading, and career development.

**PSY 812. Practicum in I-O Psychology. (3 Credits)**

A. Practicum in I-O Psychology. Supervised practice in applied settings. Participation with an approved agency varies with the student's experience. Graded Satisfactory/Unsatisfactory.

**PSY 813. Ethics and Prof Conduct Appl B. (3 Credits)**

A. Prerequisite: Departmental Approval. Foundational ethics for behavior analysts practicing across applied and research areas.

**PSY 816. Philosophical Underpinning ABA. (3 Credits)**

A. Prerequisite: Departmental Approval. Philosophical foundations of behavioral science as applied in the field of Applied Behavior Analysis. This course covers BCBA level content requirements in the Foundational area of Philosophical Underpinnings of Behavior Analysis as required by the Behavior Analysis Certification Board.

**PSY 817. Intro Foundations in Beh Analy. (3 Credits)**

A. Prerequisite: Departmental Approval. Foundation, concepts, and principles of behavioral science applied to the field of behavior analysis.

**PSY 818. Psychology of Addictions. (3 Credits)**

A. Prerequisite: admission to the Psy.D. program. This course is designed to provide an overview of the assessment, diagnosis, theory, and treatment of substance-related and addictive disorders.

**PSY 820. Statistics & Research Design I. (3 Credits)**

A. Prerequisite: departmental approval. Principles and techniques of scientific observation, control, and analysis specifically oriented to research in psychology. Evaluation of research designs and their implementation in professional settings. Emphasis on univariate statistical analyses. Credit will not be awarded to students who have credit for PSY 820S.

**PSY 820S. Statistics & Research Design I. (3 Credits)**

A. Prerequisite: departmental approval. Principles and techniques of scientific observation, control, and analysis specifically oriented to research in psychology in the context of service learning. Evaluation of research designs and their implementation in professional settings. Emphasis on univariate statistical analyses. Credit will not be awarded to students who have credit for PSY 820.

**PSY 822. Crisis Management. (1 Credit)**

Prerequisite: Departmental Approval. Theoretical and practical knowledge in crisis prevention, preparedness, response, and recovery from the systemic level to the individual level. Includes assessment and treatment associated with suicidality.

**PSY 824. Intellectual Assessment. (3 Credits)**

A. Prerequisite: departmental approval. Techniques, principles and problems in the administration, scoring, interpretation, and reporting of individual tests of intelligence for children and adults.

**PSY 825. Personality Assessment. (3 Credits)**

A. Prerequisite: departmental approval. Techniques, principles and problems of evaluating personality via interviews, objective and projective testing. Emphasis on integration of results.

**PSY 826. Professional Concerns I. (1-3 Credits)**

A. Prerequisite: departmental approval. Consideration of ethical and related problems of psychologists.

**PSY 827. Topics in Assessment. (1 Credit)**

A. Prerequisite: departmental approval. Administering, scoring, and interpreting instruments in the area of vocational interest, adolescent personality, adaptive behavior, and individual academic assessment. Emphasis is on application in school and clinical settings.

**PSY 833. Beh Research and Measurement. (3 Credits)**

A. Prerequisite: Departmental Approval. Review of principles and practices underlying behavioral measurement and single subject research designs.

**PSY 837. Social Psy & Cultural Diversity. (3 Credits)**

A. Prerequisite: departmental approval. Graduate level survey of topics in social psychology including social influence, persuasion, social cognition, self-justification, aggression and prejudice. Emphasis on multi-cultural diversity and tolerance of other groups.

**PSY 838. Practicum in Clinical Psy. (1-4 Credits)**

A. Prerequisite: PSY 826 or departmental approval. Supervised Practice in applied settings. Participation varies with student's course work and experience. Class meetings are arranged. May retake to maximum of nine credit hours.

**PSY 841. Psychopathology. (3 Credits)**

A. Prerequisite: departmental approval. Etiology and description of various aspects of psychopathology and ineffective behavior. Credit will not be awarded to students who have credit for COU 855.

**PSY 842. Interventions: School & Home. (3 Credits)**

A. Prerequisite: Departmental approval. Academic and behavioral interventions for school-age children will be reviewed. Emphasis is on identifying, selecting, and implementing research-based interventions for specific behaviors.

**PSY 843. Practicum. (1-4 Credits)**

A. Prerequisite: departmental approval. Supervised practice in applied settings. Selective participation with an assigned agency varies with the student's program with level of preparation in course work, and with previous supervised field experience. Class meetings as arranged. May be retaken to a maximum of eleven credit hours. Graded Satisfactory/Unsatisfactory.

**PSY 845. Clinical Issues and the Deaf. (3 Credits)**

A. Prerequisite: departmental approval. Survey of clinical issues involved in providing mental health services to the deaf and hard-of-hearing. Topics will include the prevalence and nature of psychological problems among the deaf and hard-of-hearing, ethical and professional concerns, the interface between mental health and other services, and psychological assessment and therapy issues and strategies.

**PSY 846. Behavioral Research Methods. (3 Credits)**

A. Prerequisite: departmental approval. Theory and methods of contemporary practice of behavioral assessment and single subject research design. Supervised practice in clinical applications of assessment methods. Review of relevant learning theory and behavioral principles.

**PSY 848. Intro to School Psychology. (3 Credits)**

A. Prerequisite: departmental approval. Theory observation, and supervised practice in the role of school psychologist. Includes systems analysis, the consultation process, and interprofessional relationships. Intervention skills appropriate for dealing with those problems.

**PSY 849. Advanced Developmental PSY. (3 Credits)**

(3) A. Prerequisite: Departmental approval. The development of individual difference in traits and behavior examined from the perspective of personality and developmental psychology. Selected coverage of both foundational and current theoretical and empirical literatures. Credit will not be awarded for both PSY 849 and PSY 847.

**PSY 850. Psychotherapy & Behav Change I. (3 Credits)**

A. Prerequisite: PSY 841 or departmental approval. A didactic and experiential introduction to the theories and techniques acilitative of personal growth and behavior change.

**PSY 853. Biological Bases of Behavior. (3 Credits)**

A. Prerequisite: departmental approval. A survey of the principles, research and methodology of psychophysiology, including consideration of the autonomic correlates of emotion and arousal, biofeedback, psychosomatic diseases, and psychophysiological correlates of psychopathology.

**PSY 855. Addressing Problem Behaviors. (3 Credits)**

A. Prerequisite: Departmental Approval. Review of principles, practices, and methods used to decrease problem behaviors as well as general intervention and behavior change procedures.

**PSY 857S. Child & Family Interventions. (3 Credits)**

A. Prerequisite: departmental approval. Conceptualization and intervention for childhood psychological disorders are reviewed and experienced through service learning pedagogy. Emphasis is on individual and group interventions. Credit will not be awarded for both PSY 857 and 857W.

**PSY 859. Cog/Affect Bases of Behavior. (3 Credits)**

Prerequisite: departmental approval. Broad survey of findings regarding cognitive and affective influences on behavior, including learning and conditioning, memory, and cognitive and affective processes. Credit will not be awarded to students who have credit for PSY 840.

**PSY 860. Psychotherapy & Beha Change II. (3 Credits)**

A. Prerequisite: PSY 850 or departmental approval. The in-depth study of techniques selected from those presented in PSY 850. Emphasis will be placed on developing proficiency in such skills and techniques.

**PSY 862. Statistic & Research Design II. (3 Credits)**

A. Prerequisite: PSY 820 or equivalent with department approval. Principles and techniques of scientific observation, control, and analysis, specifically oriented to multivariate research in psychology. Evaluation of research designs and their implementation in professional settings.

**PSY 863. Understanding Suicide. (3 Credits)**

A. Prerequisite: Admission in doctoral program or departmental approval. This seminar course will examine the topic of suicide in depth. Theoretical and empirical perspectives from public health, sociology, psychology, and genetics/neuroscience will be considered. Philosophical and ethical issues related to suicide will be explored, as will a special emphasis on clinical practice with suicidal patients.

**PSY 864. Child Psychopathology. (3 Credits)**

A. Prerequisite: PSY 848 or departmental approval. Course will focus on the theory, etiology, and context associated with psychopathology in school-aged children and adolescents.

**PSY 865. Psychological Consultation. (3 Credits)**

A. Prerequisite: departmental approval. Exploration of the theoretical and empirical underpinnings of psychological consultation process, and supervised practice in the provision of indirect psychological services.

**PSY 866. Adv Topics Applied Beha Analys. (3 Credits)**

A. Prerequisite: Departmental Approval. Introduction to advanced ethics and review of applied behavior analysis assessment, intervention, and ethics concepts and procedures within a case study format.

**PSY 868. Prog Eval in Soc Behav Sci II. (3 Credits)**

A. Prerequisite: PSY 820 or 862 or equivalent with departmental approval. Survey and application of program evaluation theory, designs, implementations and problems. Emphasis on preparing students to design and implement program evaluations of social, educational and organizational programs.

**PSY 869. Psychology of Trauma. (3 Credits)**

Prerequisite: departmental approval. Explores the psychological impact of various types of trauma. Introduces key elements of trauma research and practice, including assessment, diagnosis, theoretical models, and intervention.

**PSY 871. Group and Family Therapy. (3 Credits)**

A. Prerequisite: departmental approval. Theory and techniques of group and family therapy. Emphasis will be placed on developing and applying intervention skills.

**PSY 872. Selection & Perf Appraisal. (3 Credits)**

A. Prerequisite: PSY 790 or departmental approval. Psychological theory, research, and practice pertaining to the selection and appraisal of human resources in the workplace.

**PSY 873. Organizational Psychology. (3 Credits)**

A. Prerequisite: departmental approval. Examination of research, theory, and applications in organizational psychology. Topics include commitment, involvement, satisfaction, power, conflict, motivation, leadership, quality of work life, group/team processes, and organizational structure.

**PSY 874. Organization Change and Dev. (3 Credits)**

A. Prerequisite: departmental approval. Analysis of psychological theory, research and practice pertaining to organization change and development including the change process, culture, interventions, evaluation, consulting, and legal/ethical concerns.

**PSY 875. Training and Development. (3 Credits)**

A. Prerequisite: departmental approval. Graduate level survey of psychological theory, research, and practice utilized in the training and development of human resources in the workplace.

**PSY 880. Work Environment. (3 Credits)**

A. Prerequisite: departmental approval. Seminar examining the ways in which workers are influenced by the physical environment. Topics will include lighting, noise, temperature, aesthetics, privacy, crowding, territoriality, human factors, and ergonomics.

**PSY 881. Advanced Children's Assessment. (3 Credits)**

A. Prerequisite: departmental approval. Theory and research regarding psychological and psychoeducational problems of childhood and adolescence in the context of diagnostic criteria, including training in the use of adaptive behavior scales and measures for screening academic achievement.

**PSY 887. Independent Work in Psychology. (1-3 Credits)**

A. Prerequisite: approval of independent study proposal by faculty supervisor and department chair prior to enrollment. Student is responsible for conceptualization and investigation of research problem and drawing formal conclusions. May be retaken to a maximum of six hours provided a different problem is studied each time.

**PSY 888. Master's Research Project. (3 Credits)**

Empirical investigation of a selected topic in psychology, including submission of a report to the department.

**PSY 895. Building New Behaviors. (3 Credits)**

A. Prerequisite: Departmental Approval. Review of principles, practices, and methods used to increase desired behavior.

**PSY 896. Internship in School PSY. (3-6 Credits)**

(3-6) A. Prerequisite: Departmental approval. Intensive supervised experience in approved educational setting. May be retaken to a maximum of twelve hours. Graded Satisfactory/Unsatisfactory. A minimum of 1200 hours of work is required for the total twelve hours credit awarded.

**PSY 897. Special Topics in Psychology. (3 Credits)**

A. Selected topics for advanced graduate study. Topics will vary. May be retaken to a total of six hours, provided the subject matter differs each time.

**PSY 898. Thesis Research. (1-6 Credits)**

(1-6) A. Prerequisite: Departmental approval. Experimental investigation of a selected topic, including preparation of a formal report. May be retaken to a maximum of twelve hours. Graded Satisfactory/Unsatisfactory. A minimum of 1200 hours of work is required for the total twelve hours credit awarded.

**PSY 899A. Internship in Clinical Psych. (4 Credits)**

A. Prerequisite: departmental approval. Intensive supervised experience in an approved clinical setting. May be retaken to a maximum of twelve hours. Graded Satisfactory/Unsatisfactory.

**PSY 938. Doctoral Prac in Clinical Psyc. (1-4 Credits)**

(1-4) Prerequisite: PSY 838. Supervised experience in applied settings. Participation varies with student's course work and experience. Class meetings as arranged. May be retaken to a maximum of 21 credit hours.

**PSY 950. Clinical Supervision & Consult. (3 Credits)**

Prerequisite: departmental approval. Advanced seminar covering theories, issues, methods, and techniques in the supervision of psychotherapy and assessment. Consultation issues and models will also be examined.

**PSY 990. Doctoral Specialty Project. (3 Credits)**

A. Prerequisite: Departmental approval. Investigation of clinical best practices for a selected disorder. Requires a written report and oral presentation. May be retaken for a maximum of 12 hours. Graded Satisfactory/Unsatisfactory.

**PSY 999. Doctoral Intern in Clinic Psyc. (6 Credits)**

A. Prerequisite: Departmental approval. Intensive supervised experience in an approved external clinical setting. May be retaken to a maximum of 12 credit hours. Graded Satisfactory/Unsatisfactory.

## Applied Behavioral Analyst Certification

To obtain a BCBA Certification students must:

1. hold a Master’s or Doctoral degree in Psychology, Education, or Behavior Analysis;
2. have completed Board approved ABA coursework;
3. have completed the required and documented supervised practical experience; and
4. pass an examination administered by the Behavioral Analyst Certification Board.

The ABA Certificate is designed for students who already have an appropriate Master’s or Doctoral degree, and who want to work toward eligibility to sit for the BCBA Certification Exam.

The ABA Certificate provides the required approved ABA coursework.

Students are responsible for finding their own practical experiences in order to accumulate the required hours of supervised experience, and for scheduling and paying for the BCBA Certification Exam. Information can be found at [www.bacb.com](http://www.bacb.com) (<http://www.bacb.com>)

### Admission Requirements

- Note that persons planning to apply for BCBA Certification are required by the Behavior Analyst Certification Board to hold a Master’s or Doctoral degree, to have completed the Board approved ABA coursework, to have completed the required and documented supervised practical experience, and to pass an examination administered by the Behavioral Analyst Certification Board.
- The ABA Certificate from ECU provides the required ABA coursework. Students are responsible for finding their own practical experiences in order to accumulate the required hours of supervised experience, and for scheduling and paying for the BCBA Certification Exam. Information can be found at [www.bacb.com](http://www.bacb.com) (<http://www.bacb.com>).
- For students with a Master’s degree, admission requirements are minimum overall graduate grade point average of 2.75, and a personal statement.
- For students without a Master’s degree, admission requirements are minimum overall undergraduate grade point average of 2.5, or 2.75 for the last 60 hours, and a personal statement.
- Personal statement must address the following areas:
  - a. What personal characteristics do you possess that you believe are important to the practice of applied behavior analysis? Do you

possess any particular strengths that you feel will be an asset to you in graduate school? What about any personal challenges that you think might hinder your progress?

- b. What are your professional goals?
- c. Describe any experiences that have particularly prepared you for graduate study in applied behavior analysis (e.g., co-op/ internships, work experiences, life experiences).
- d. Explain if you feel that any portion of your application does not accurately reflect your academic skills or preparation to complete this certificate.

## Program Requirements

CIP Code: 42.2814

### ABA Certificate (Online Only)

Code	Title	Hours
<b>Certificate Requirement</b>		
PSY 817	Intro Foundations in Beh Analy (Must be taken before other ABA courses)	3
PSY 813	Ethics and Prof Conduct Appl B	3
PSY 816	Philosophical Underpinning ABA	3
PSY 833	Beh Research and Measurement	3
PSY 855	Addressing Problem Behaviors	3
PSY 895	Building New Behaviors	3
<b>Capstone Requirement</b>		
PSY 866	Adv Topics Applied Beha Analys	3
<b>Total Hours</b>		<b>21</b>

## Autism Spectrum Disorder Certificate

The Autism Spectrum Disorder Certificate provides integrated multidisciplinary training in autism and related disorders. Participation is limited to students enrolled in graduate degree programs in Psychology, Occupational Therapy, Communication Disorders, and Special Education. Admission to one of the designated graduate degree programs does not guarantee admission to the certificate program. Post-degree students with graduate degrees in one of these fields will also be considered, although the focus of the certificate is on pre-service training. Students seeking admission to the certificate program should contact their graduate program advisor for information.

### Program Requirements

CIP Code: 42.9999

A total of 18 credit hours is required for candidates for the Autism Spectrum Disorder Certificate, including 1 course in each of the four participating disciplines (Psychology, Occupational Therapy, Communication Disorders, and Special Education), one discipline-specific practicum in autism spectrum disorders, and a capstone course in autism spectrum disorders.

Code	Title	Hours
<b>Certificate Requirements</b>		
OTS 863	Occupation & Sensory Process	3
PSY 777	The Autism Spectrum	3
Choose from three hours of the following:		
CSD 867	Advanced Language Disorders	3

CSD 878	Diagnosis of Comm Disorders	
CSD 720	Augment & Alternat Comm System	
SED 821 or SED 837	MSD Tech/Research-Based Strat <sup>1</sup> Applied Behavior Analysis	3
Choose from three hours of the following:		3
OTS 831	Practice Seminar II (two hours) <sup>2</sup>	
PSY 843	Practicum	
PSY 838	Practicum in Clinical Psy	
CSD 874	Grad Pract: Speech-Lang Path	
SED 897	Practicum in Special Education	
Choose from three hours of the following:		3
OTS 846	Community Practice Fieldwork (four hours) <sup>2</sup>	
CSD 899	Research Project/Thesis Option	
PSY 887	Independent Work in Psychology	
CSD 898	Externship in Comm Disorders	
CSD 897	School Experiences in CD	
SED 898	Capstone Research Project	
PSY 896	Internship in School PSY	
PSY 899A	Internship in Clinical Psych	
PSY 898	Thesis Research	
<b>Comprehensive Examination</b>		
GRD 858N	Autism Spect Oral Comp Ex	0
<b>Total Hours</b>		<b>18</b>

1

For students who have previously taken SED 590

2

OTS 831 Practice Seminar II must be paired with OTS 846 Community Practice Fieldwork to equal six hours.

## Comprehensive Examination

In addition to the exit requirements for their degree, candidates for the certificate will be required to successfully complete an oral examination on Autism Spectrum Disorders and register for GRD 858N Autism Spect Oral Comp Ex.

## Clinical Psychology Program, Master of Science (M.S.)

### Admission Requirements

Candidates must satisfy the following special requirements:

A minimum of five undergraduate courses in psychology: general psychology, statistics, and experimental psychology are required, as well as two other courses acceptable to the departmental admissions committee. Satisfactory performance on the general sections of the Graduate Record Examination is required prior to admission. Analytical Writing scores of 4.0 or higher are expected for all programs. Admission is competitive and limited to available space. Meeting the minimum requirements, therefore, does not guarantee admission. Candidates must arrange for submission of three letters of recommendation directly to the department, two related to the undergraduate major, with at least one from psychology faculty.

The M.S. program in Clinical Psychology at ECU is part of the doctoral (Psy.D.) program. Students are not admitted solely for the purpose of obtaining the M.S. degree in Clinical Psychology.

## Program Requirements

CIP Code: 42.2801

Requirements for the degree are a minimum of 55 graduate hours in order to complete the degree program.

Code	Title	Hours
<b>Core Courses</b>		
<i>Research Courses</i>		
PSY 820	Statistics & Research Design I	3
PSY 862	Statistic & Research Design II	3
<i>Theory Courses</i>		
PSY 802	Multicultural Psychology	3
PSY 803	Rural Mental Health <sup>1</sup>	3
PSY 826	Professional Concerns I <sup>1</sup>	3
PSY 837	Social Psy & Cultural Diversity	3
PSY 841	Psychopathology <sup>1</sup>	3
PSY 849	Advanced Developmental PSY	3
PSY 853	Biological Bases of Behavior	3
PSY 859	Cog/Affect Bases of Behavior	3
PSY 863	Understanding Suicide	3
<i>Techniques Courses</i>		
PSY 824	Intellectual Assessment <sup>1</sup>	3
PSY 825	Personality Assessment <sup>1</sup>	3
PSY 850	Psychotherapy & Behav Change I <sup>1</sup>	3
PSY 860	Psychotherapy & Beha Change II <sup>1</sup>	3
PSY 881	Advanced Children's Assessment <sup>1</sup>	3
<i>Experiential Course</i>		
PSY 838	Practicum in Clinical Psy <sup>1</sup>	7
<b>Exit Requirements</b>		
GRD 857K	MS Clinical PSY Writ Comp Ex	0
GRD 858K	MS Clinical PSY Oral Comp Ex	0
<b>Total Hours</b>		<b>55</b>

1

Students must earn a grade of B or better.

## Exit Requirements

Students in the Clinical Psychology Program must complete the following:

### Comprehensive Examinations

Register for written and oral comprehensive examinations in their area of study (GRD 857K MS Clinical PSY Writ Comp Ex & GRD 858K MS Clinical PSY Oral Comp Ex (0 credit hours)), and must pass both of these examinations.

# Clinical Psychology, Doctor in Psychology (Psy. D.)

## Admission Requirements

A minimum of five undergraduate courses in psychology: general psychology, statistics, and experimental psychology are required, as well as two other courses acceptable to the departmental admissions committee. Applicants are required to submit academic transcripts for any undergraduate and graduate work, and the GRE score report. Candidates are encouraged to complete the GRE Psychology Subject Test if Psychology was not their major as an undergraduate. Candidates with a GPA of 3.0 or higher and GRE scores at the 50th percentile or higher will be competitive. Admission is limited to available space. Meeting the minimum requirements, therefore, does not guarantee admission.

Applicants must submit a personal statement (2-3 typewritten, double spaced pages). In completing the personal statement, consider reflecting on the following areas:

1. What personal characteristics do you possess that you believe are important to the practice of psychology? Do you possess any particular strengths that you feel will be an asset to you in graduate school? What about any personal challenges that you might hinder your progress?
2. What are your professional goals and how do they match the mission of our program, particularly our focus on rural and underserved areas?
3. Describe any experiences that have particularly prepared you for graduate study in clinical psychology (e.g., clinical co-op/internships, research experiences, particular coursework, etc.).
4. If you feel that any portion of your application does not accurately reflect your academic skills or preparation for graduate school in psychology (e.g., GRE, GPA, etc.), please explain.

Applicants must arrange for submission of three letters of recommendation from individuals familiar with your abilities relevant to graduate-level study in psychology, with at least one from psychology faculty. Applicants must also submit a curriculum vitae.

Applications are completed online and must be received by December 1. Top applicants will be invited for an on-campus interview. Notification regarding admission normally will be made in February or March.

## Program Requirements

CIP code: 42.2801

Requirements for the degree are a minimum of 120 graduate hours including 12 credit hours for a year-long internship, 27 credit hours for clinical practica, 72 credit hours of required courses, 6 credit hours for the doctoral research project, and 3 hours of elective graduate courses approved by the student's graduate advisor.

Code	Title	Hours
<b>Core Courses</b>		
PSY 766	Forensic Psychology	3
PSY 779	History & Systems of Psychology	3
PSY 802	Multicultural Psychology	3
PSY 803	Rural Mental Health	3

PSY 818	Psychology of Addictions	3
PSY 820	Statistics & Research Design I	3
PSY 824	Intellectual Assessment	3
PSY 825	Personality Assessment	3
PSY 826	Professional Concerns I	3
PSY 837	Social Psy & Cultural Diversity	3
PSY 841	Psychopathology	3
PSY 849	Advanced Developmental PSY	3
PSY 850	Psychotherapy & Behav Change I	3
PSY 853	Biological Bases of Behavior	3
PSY 857S	Child & Family Interventions	3
PSY 859	Cog/Affect Bases of Behavior	3
PSY 860	Psychotherapy & Beha Change II	3
PSY 862	Statistic & Research Design II	3
PSY 863	Understanding Suicide	3
PSY 868	Prog Eval in Soc Behav Sci II	3
PSY 869	Psychology of Trauma	3
PSY 871	Group and Family Therapy	3
PSY 881	Advanced Children's Assessment	3
PSY 950	Clinical Supervision & Consult	3

### Experiential Courses

PSY 838	Practicum in Clinical Psy	9
PSY 999	Doctoral Intern in Clinic Psyc	12
PSY 938	Doctoral Prac in Clinical Psyc	18

### Electives

Choose from three hours of electives 3

### Research

PSY 990	Doctoral Specialty Project	6
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### Exit Requirements

GRD 857R	PsyD Clinical PSY Writ Comp Ex	0
GRD 858R	PsyD Clinical PSY Oral Comp Ex	0

**Total Hours** 120

## Exit Requirements

*Students in the Doctor of Psychology Program must register for written and oral comprehensive examinations in their area of study (GRD 857R PsyD Clinical PSY Writ Comp Ex & GRD 858R PsyD Clinical PSY Oral Comp Ex) (0 credit hours), and must pass both of these examinations.*

## General Psychology, Master of Science with a Concentration in ABA (M.S.)

### Information About the Master's Degree

There are two Master's Degrees in General Psychology: one in Experimental Psychology which requires a thesis, and one for those who seek the educational requirements to pursue ABA Certification.

## Information About the ABA Concentration (Within the General Psychology M.S. Degree)

To obtain a BCBA Certification students must:

1. hold a Master's or Doctoral degree;
2. have completed Board approved ABA coursework;
3. have completed the required and documented supervised practical experience; and
4. pass an examination administered by the Behavioral Analyst Certification Board.

The **M.S. General Psychology Degree with ABA Concentration** is designed for students interested in earning a Master's degree that will provide expertise in applied behavior analysis, and allow them to work toward eligibility to sit for the BCBA Certification Exam.

The M.S. General Psychology Degree with ABA Concentration provides:

1. the required Master's degree and
2. the required Board approved ABA coursework.

Students are responsible for finding their own practical experiences in order to accumulate the required hours of supervised experience, and for scheduling and paying for the BCBA Certification Exam. Information can be found at [www.bacb.com](http://www.bacb.com) (<http://www.bacb.com>).

## Admission Requirements

### M.S. General Psychology: ABA Concentration

- Minimum overall undergraduate grade point average of 2.5, or 2.75 in the last 60 hours
- Minimum of one research course and one statistics course
- Minimum of three additional courses in psychology or a related discipline
- GRE: If undergraduate GPA is below 3.0, then satisfactory performance on the general sections of the Graduate Record Examination (GRE) is required.
- Personal statement must address the following areas:
  - a. What personal characteristics do you possess that you believe are important to the practice of applied behavior analysis? Do you possess any particular strengths that you feel will be an asset to you in graduate school? What about any personal challenges that you think might hinder your progress?
  - b. What are your professional goals?
  - c. Describe any experiences that have particularly prepared you for graduate study in applied behavior analysis (e.g., co-op/ internships, work experiences, life experiences).
  - d. If you feel that any portion of your application does not accurately reflect your academic skills or preparation for graduate school in psychology (e.g., GRE, GPA, etc.), please explain.

## Program Requirements

CIP Code: 42.0101

A total of 33 credit hours is required for candidates for the Master of Science in General Psychology.

Code	Title	Hours
<b>Core Courses in Psychological Foundations</b>		
PSY 833	Beh Research and Measurement	3
PSY 837	Social Psy & Cultural Diversity	3
PSY 849	Advanced Developmental PSY	3
PSY 853	Biological Bases of Behavior	3
PSY 859	Cog/Affect Bases of Behavior	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		18
Experimental Concentration		
Applied Behavior Analysis Concentration (Online Only)		
<b>Exit Requirements</b>		
GRD 857J	MS Psy Written Comp Exam	0
GRD 858J	MS Psychology Oral Comp Exam	0
<b>Total Hours</b>		<b>33</b>

## Concentration (Online Only)

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 817	Intro Foundations in Beh Analy	3
PSY 813	Ethics and Prof Conduct Appl B	3
PSY 816	Philosophical Underpinning ABA	3
PSY 855	Addressing Problem Behaviors	3
PSY 895	Building New Behaviors	3
<b>Capstone Requirement</b>		
PSY 866	Adv Topics Applied Beha Analys	3
<b>Total Hours</b>		<b>18</b>

## Exit Requirements

Students in the Applied Behavior Analysis Concentration must complete the following:

### Comprehensive Examination

Register for a written comprehensive examination in their area of study (GRD 857J MS Psy Written Comp Exam) (0 credit hours), and pass this examination.

## General Psychology, Master of Science with a Concentration in Experimental Psychology (M.S.)

### Information About the Master's Degree

There are two Master's Degrees in General Psychology: one in Experimental Psychology which requires a thesis, and one for those who seek the educational requirements to pursue ABA Certification.

### Information About the Experimental Psychology Master's Program

The Master of Science degree program in General Psychology offers students advanced training in the core areas of psychology and the opportunity to develop and explore specialized areas of interest. Students work closely with a faculty mentor to design an individualized course of study that combines classroom training and hands-on research

experience, and culminates in a Master's thesis. Graduates will have a solid foundation for pursuing doctoral-level training in psychology and related fields or for entry into a variety of work settings.

## Admission Requirements

### M.S. General Psychology: Experimental Concentration

- Minimum overall undergraduate grade point average of 2.5, or 2.75 for the last 60 hours.
- Minimum of five undergraduate courses in psychology, including general psychology, statistics, experimental psychology, and two other courses acceptable to the departmental admissions committee.
- Satisfactory performance on the general sections of the Graduate Record Examination. Analytical Writing scores of 4.0 or higher are expected.
- Three letters of recommendation; two letters must be related to the undergraduate major, with at least one from psychology faculty.
- Applications for fall admission should be received by March 1. Notification regarding admission normally will be made in April. Students applying later may be accepted as space is available.

Admission is competitive and limited to available space. Meeting the minimum requirements, therefore, does not guarantee admission.

## Program Requirements

CIP Code: 42.0101

A total of 33 credit hours is required for candidates for the Master of Science in General Psychology.

Code	Title	Hours
<b>Core Courses in Psychological Foundations</b>		
PSY 833	Beh Research and Measurement	3
PSY 837	Social Psy & Cultural Diversity	3
PSY 849	Advanced Developmental PSY	3
PSY 853	Biological Bases of Behavior	3
PSY 859	Cog/Affect Bases of Behavior	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		18
Experimental Concentration		
Applied Behavior Analysis Concentration (Online Only)		
<b>Exit Requirements</b>		
GRD 857J	MS Psy Written Comp Exam	0
GRD 858J	MS Psychology Oral Comp Exam	0
<b>Total Hours</b>		<b>33</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
PSY 862	Statistic & Research Design II	3
<b>Electives</b>		
Choose from nine hours of electives approved by graduate advisor		9
<b>Thesis</b>		
PSY 898	Thesis Research	6
<b>Total Hours</b>		<b>18</b>

## Industrial and Organizational Psychology, Master of Science (M.S.)

### Admission Requirements

Candidates must satisfy the following requirements:

A minimum of two undergraduate psychology courses including statistics and one upper division psychology course are required [comparable courses in relevant disciplines (e.g., Business) will be considered]. Applicants are required to submit academic transcripts for any undergraduate and graduate work. An undergraduate grade point average of 3.0 is required. Applicants with a cumulative undergraduate GPA of 3.0 or higher are exempt from the GRE requirement. Target scores for the Industrial and Organizational Psychology program are 149 or above on the Verbal section and 144 or above on the Quantitative section of the GRE.

Applicants must submit a personal statement addressing academic experiences, professional goals, and an explanation of why the field of I-O psychology, and specifically the ECU I-O Psychology Online Program, is a good fit. Below are some additional questions to consider as you construct your response.

1. What personal characteristics do you possess that you believe are important to the practice of I-O psychology?
2. Do you possess any particular strengths that you feel will be an asset to you in graduate school?
3. What are your professional goals and how do they match the mission of our program?
4. Describe any experiences that have particularly prepared you for graduate study in I-O psychology (e.g., work experience, research experience, particular coursework, etc.).
5. If you feel that any portion of your application does not accurately reflect your academic skills or preparation for graduate school in psychology (e.g., GRE, GPA, etc.), please explain in your personal statement.

Applicants must arrange for submission of three letters of recommendation providing evidence of academic potential from persons familiar with the applicant's academic or employment experience. Applicants must also submit a curriculum vitae/Resume.

Applications are completed online. Applicant deadlines are August 5th, October 5th, January 5th, and April 5th.

## Program Requirements

CIP Code: 42.2804

The successful completion of 36 credit hours is required of candidates for the Master of Science in Industrial and Organizational Psychology. In addition to 33 hours of required courses, 3 credit hours of practicum are required.

Code	Title	Hours
<b>Core Courses</b>		
PSY 804	Introduction to I-O Psychology	3
PSY 807	Work Analysis	3
PSY 808	Selection	3
PSY 809	Performance Management	3

PSY 873	Organizational Psychology	3
PSY 874	Organization Change and Dev	3
PSY 875	Training and Development	3
<b>Research Methods</b>		
PSY 805	Quantitative Research Methods	3
PSY 806	Applied Research Methods	3
<b>Consulting and Professional Skills</b>		
PSY 810	Consulting and Business Skills	3
PSY 811	Professional Development	3
<b>Practicum</b>		
PSY 812	Practicum in I-O Psychology	3
<b>Total Hours</b>		<b>36</b>

## Department of Social Work

### Chair

Prof. Stephanie Saulnier  
(859) 622-1645  
Keith 223

### Faculty

G. Ashley; A. Callahan; D. Higgins; K. Martin; C. Reid; K. Ward

### Master's

- Master of Social Work (M.S.W.) (p. 796)

### Certificate

- Addictions Intervention, University Certificate (p. 795)
- Child and Family Services, University Certificate (p. 795)
- Leadership and Management, University Certificate (p. 796)
- Mental Health, University Certificate (p. 799)
- Social Advocacy and Justice, University Certificate (p. 799)

### Courses

#### **SWK 761. Alcohol and Drug Assessment. (3 Credits)**

A. Prerequisite: Departmental approval. Provides clinical and scientific knowledge about the history and range of consequences associated with alcohol and drug addiction. Credit will not be awarded for both SWK 561 and SWK 761.

#### **SWK 762. Alcohol and Drug Treatment. (3 Credits)**

A. Prerequisite: Departmental approval. Provides clinical and scientific knowledge about the treatment of alcohol and drug addiction. Credit will not be awarded for both SWK 562 and SWK 762.

#### **SWK 800. The Social Work Relationship. (3 Credits)**

(3) A. Introduction to generalist social work practice including the importance of self-care, professional ethics, and respect for diversity with the opportunity to build skills in facilitating therapeutic relationships.

#### **SWK 810. Human Behav Social Enviro I. (3 Credits)**

(3) I, II. Applies current research and various paradigms to explain how biopsychosocial-spiritual development across the lifespan and in relation to the social environment shapes individual functioning and family interactions.

#### **SWK 815. Human Behav Social Enviro II. (3 Credits)**

(3) I, II. Prerequisite: SWK 800 with a minimum grade of "B" or departmental approval. Prerequisite or corequisite: SWK 810. Applies current research and various paradigms to explain how social, cultural forces, and institutions shape group, organization, and community interactions.

#### **SWK 820. Social Work Practice I. (3 Credits)**

(3) I, II. Prerequisite: SWK 800 and SWK 810 with a minimum grade of "B" or departmental approval. Corequisite: SWK 825. Foundation for social work practice with individuals. Draws from current research and various paradigms with the opportunity to practice facilitating the generalist intervention method to develop skills in ethical, culturally inclusive micro practice.

#### **SWK 825. Social Work Research Methods. (3 Credits)**

(3) I, II. Prerequisite: SWK 800 and SWK 810 with a minimum grade of "B" or departmental approval. Prerequisite or Corequisite: SWK 820. Foundation for qualitative and quantitative research with the opportunity to critically evaluate research methodology and plan a research study for ethical, culturally inclusive social work practice across client systems.

#### **SWK 830. Social Work Practice II. (3 Credits)**

(3) I, II. Prerequisites: SWK 815 and SWK 820 with a minimum grade of "B" or departmental approval. Foundation for social work practice with families and groups. Draws from current research and various paradigms with the opportunity to practice facilitating a psychoeducational group to develop skills in ethical, culturally inclusive mezzo practice.

#### **SWK 840. Social Work Practice III. (3 Credits)**

(3) I, II. Prerequisite: SWK 815, SWK 820 and SWK 830 with a minimum grade of "B" or departmental approval. Prerequisite or corequisite: SWK 845. Foundation for generalist social work practice with organizations and communities. Draws from current research and various paradigms with the opportunity to practice facilitating a task group to develop skills in ethical, culturally inclusive macro practice.

#### **SWK 845. Soc Policy Analy and Advoc. (3 Credits)**

(3) I, II. Prerequisite: SWK 800 with a minimum grade of "B" or departmental approval. Engages students as agents of change starting with policy analysis, formulation, modification, and evaluation at administrative, judicial, and legislative levels. There is an emphasis on personal and social empowerment to foster policies and practices that support a just society.

#### **SWK 850. Generalist Practicum. (1-3 Credits)**

I, II. Prerequisite: Admission to the MSW Social Work Program, Practicum Placement Approved by Field Director, SWK 800 and SWK 810 completed with at least a "B" or departmental approval. Supervised practice in a social agency and seminar to discuss the application of social work knowledge, skills, competencies, behaviors, ethics and values necessary for ethical, culturally inclusive, and evidence-based generalist practice. May be retaken to a maximum of six hours.

#### **SWK 855. Generalist Capstone. (2 Credits)**

I, II. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or departmental approval. Opportunity to review, integrate, and apply knowledge for the demonstration of proficiency with all nine competencies in generalist practice as a foundation for ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 860. Integrative Micro Practice. (3 Credits)**

I, II. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or departmental approval. Opportunity to integrate micro-level social work and relevant theories, skills, and research for the delivery of ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 863. Stress Management & Self-Care. (3 Credits)**

A. Prerequisite: Departmental approval. Addresses what supports a healthy lifestyle that includes stress management and perceived quality of life. Emphasis is on evidence-based approaches and experiential learning to inform the development and maintenance of a plan for self-care.

**SWK 864. Child and Family Services. (3 Credits)**

A. Prerequisite: Departmental approval. Critical appraisal of societal values underlying services to children. Examines a range of social and child welfare services, impact of public policies, and interventions to support children and families.

**SWK 865. Social Gerontology. (3 Credits)**

A. Prerequisite: Departmental approval. Applies current research and various paradigms to describe factors that shape the aging process. Class activities inspire new insights that can be used to better support older adults and their families.

**SWK 866. Crisis Intervention. (3 Credits)**

A. Prerequisite: Departmental approval. Examination of current theories pertaining to the fundamentals of trauma and traumatic stress that can lead to crisis. The implications of crisis intervention to modify, manage, and cope with trauma will be addressed.

**SWK 867. Spirit Sensitivity Help Profes. (3 Credits)**

A. Prerequisite: Admission to EKU Graduate School or departmental approval. Describes how professionals can address spiritual issues that emerge in health and mental care settings. Students will also explore how their own beliefs influence daily life and work.

**SWK 870. Integrative Mezzo Practice. (3 Credits)**

A. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or departmental approval. Opportunity to integrate mezzo-level social work and relevant theories, skills, and research for the delivery of ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 880. Integrative Macro Practice. (3 Credits)**

A. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or departmental approval. Opportunity to integrate mezzo-level social work and relevant theories, skills, and research for the delivery of ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 890. Integrative Practicum. (1-4 Credits)**

A. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or "S" and field director approval of placement. Corequisite: SWK 860 or SWK 870 or SWK 880. Supervised practice in a social agency and foundation seminar to integrate social work and relevant knowledge for ethical, culturally inclusive, and evidence-based practice. May be retaken to a maximum of eight hours.

**SWK 895. Integrative Capstone. (2 Credits)**

(2). I, II. Prerequisite: All generalist and advanced courses completed with a minimum grade of "B" or departmental approval. Opportunity to review, integrate, and apply knowledge for the demonstration of proficiency with all nine competencies that inform ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 899. Indep Study in Social Work. (1-3 Credits)**

A. Student must consult with the faculty project advisor and have the independent study proposal form approved by their faculty project advisor, program director, and department chair prior to enrollment. Course may include intensive reading in a specialized area, synthesizing literature on a topic, completing a research project, or other assignment arranged with faculty advisor. May be retaken to a maximum of nine hours.

## Addictions Intervention, University Certificate

Interdisciplinary University Certificate (IUC) programs provide a low-cost, alternative pathway for an academic credential that conveys expertise in a shared area of concern. Students gain unparalleled access to specialized courses that have been carefully selected for this curriculum. The Addictions Intervention Certificate Program enables students to draw from different perspectives and opportunities to build interdisciplinary partnerships around cutting-edge practices in addictions intervention. IUC courses vary in timing of being offered, but students have a number of course options. Students can also submit a petition to the IUC Advisory Board requesting a course to be counted toward an IUC.

### Program Requirements

CIP Code: 44.0701

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from six of the following:		18
CPL 828	MH/Sub Abuse Issues in Cor Stg	
MPH 810	Human Behavior Change	
NFA 826	Nutrition for Chronic Disease	
PSY 850	Psychotherapy & Behav Change I	
PSY 859	Cog/Affect Bases of Behavior	
SWK 761	Alcohol and Drug Assessment	
SWK 762	Alcohol and Drug Treatment	
SWK 863	Stress Management & Self-Care	
SWK 866	Crisis Intervention	
SWK 867	Spirit Sensitivity Help Profes	
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	
VTS 700	Veteran Identity Theory	
<b>Total Hours</b>		<b>18</b>

*Students in the Master of Social Work Program (MSW) who wish to obtain this certification have separate requirements. Please refer to MSW program requirements in the EKU Graduate catalog for more information.*

## Child and Family Services, University Certificate

### Interdisciplinary Certificate in Child and Family Services

Interdisciplinary University Certificate (IUC) programs provide a low-cost, alternative pathway for an academic credential that conveys expertise in a shared area of concern. Students gain unparalleled

access to specialized courses that have been carefully selected for this curriculum. The Child and Family Services Certificate Program enables students to draw from different perspectives and opportunities to build interdisciplinary partnerships around cutting-edge practices in child and family services. IUC courses vary in timing of being offered, but students have a number of course options. Students can also submit a petition to the IUC Advisory Board requesting a course to be counted toward an IUC.

## Program Requirements

CIP Code: 44.0701

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from six of the following:		18
CDF 701	Adv Prenatal & Infant Develop	
CDF 741	Infant Toddler Dev&Group Care	
CDF 744	Early Child Dev&Prog Planning	
CPL 828	MH/Sub Abuse Issues in Cor Stg	
EAD 853	Conditions of Learning	
EAD 856	Learning for At-Risk Students	
EDF 855	Found of Multicultural Educati	
EMS 777	Culturally and Linguistically Responsive Teaching	
EPY 839	Human Growth & Development	
OTS 715	Early Child Sensorimotor Devel	
OTS 863	Occupation & Sensory Process	
OTS 865	School-based Practice	
PSY 777	The Autism Spectrum	
PSY 817	Intro Foundations in Beh Analy	
SED 800	Exceptl Learners Gen Ed Class	
SED 817	Behavior Disorders	
SED 819	Mod/Sev Disabilities Intro	
SED 827	Early Ch Spec Ed Partnerships	
SWK 761	Alcohol and Drug Assessment	
SWK 762	Alcohol and Drug Treatment	
SWK 863	Stress Management & Self-Care	
SWK 864	Child and Family Services	
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	
<b>Total Hours</b>		<b>18</b>

*Students in the Master of Social Work Program (MSW) who wish to obtain this certification have separate requirements. Please refer to MSW program requirements in the EKU Graduate Catalog for more information.*

## Leadership and Management, University Certificate Interdisciplinary Certificate in Leadership and Management

Interdisciplinary University Certificate (IUC) programs provide a low-cost, alternative pathway for an academic credential that conveys expertise in a shared area of concern. Students gain unparalleled access to specialized courses that have been carefully selected for this curriculum. The Leadership and Management Certificate Program enables students to draw from different perspectives and opportunities

to build interdisciplinary partnerships around cutting-edge practices in leadership and management. IUC courses vary in timing of being offered, but students have a number of course options. Students can also submit a petition to the IUC Advisory Board requesting a course to be counted toward an IUC.

## Program Requirements

CIP Code: 44.0701

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from six of the following:		18
EPY 869	Research & Program Evaluation	
HLS 830	Long-Term Disaster Resilience	
HLS 835	Intergov Rltns in Disaster Mgt	
CPL 812	Lead w Pol, Eth, and Emo Intel	
CPL 835	Adv Jus Admin and Leadership	
OTS 853	Leadership in Human Services	
POL 845	Community Development	
POL 846	Non-Profit Organizations	
POL 847	Grant Writing	
POL 874	Public Sector Leadership	
PSY 873	Organizational Psychology	
PSY 874	Organization Change and Dev	
PSY 875	Training and Development	
SSE 826	Emergency Prep/Response	
SSE 830	Organizational Continuity	
SWK 863	Stress Management & Self-Care	
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	
<b>Total Hours</b>		<b>18</b>

*Students in the Master of Social Work Program (MSW) who wish to obtain this certification have separate requirements. Please refer to MSW program requirements in the EKU Graduate Catalog for more information.*

## Master of Social Work (M.S.W.)

### General Information

The Master of Social Work (MSW) Program is an online program that consists of 8-week long asynchronous courses and field practicum hours. The MSW Program builds on a generalist foundation to prepare students to be interprofessional social work practitioners. This concentration enables students to work collaboratively across disciplines, settings, and populations. Students also participate in an Interdisciplinary University Certificate Program. This provides MSW students access to courses that uniquely inform interprofessional social work practice as it relates to in an area of shared concern. Therefore, MSW students learn to integrate social work theory, practice, and research as well as draw from interdisciplinary perspectives to support the wellbeing of individuals, groups, families, organizations, and communities through interprofessional social work practice.

The MSW program offers a part- and full-time course of study, employer-based field placements, and advanced standing for students with an undergraduate degree in Social Work. The regular program consists of 60 graduate credit hours of generalist courses and concentration

courses. Students who are admitted into the regular program start with generalist courses to ensure students have mastered content on the practice of generalist social work. These students and students accepted with advanced standing status proceed with concentration courses to integrate generalist social work theory (i.e., diversity, values and ethics, and human behavior I/II theories), practice (i.e., skills and intervention), and research (i.e., methods, data collection, and analysis).

MSW students gain additional experience in interprofessional social work practice by drawing from interdisciplinary perspectives through an approved Interdisciplinary University Certificate Program. Students choose an approved Interdisciplinary University Certificate Program and three elective courses in that certificate's curriculum. An Integrative Practicum and Integrative Capstone project are required as part of this course sequence. In coordination with MSW faculty and staff, MSW students continue formation as interprofessional social workers while taking elective courses with students across disciplines. MSW students gain practicum experience with a population (or area) of interest to transfer classroom skills into the field for collaborative action.

## Admission Requirements

All applicants applying for admission to the 60-hour program must have a baccalaureate degree from a college or university accredited by the appropriate regional accrediting agency or foreign equivalent with a grade point average of 2.7 out of a possible 4.0 on all undergraduate work and a minimum GPA of 3.0 out of a possible 4.0 on all previous graduate work<sup>1</sup>. All applicants applying for advanced standing status must have a cumulative undergraduate GPA of 3.0 or higher, must have an undergraduate major in Social Work from a Council on Social Work Education accredited program and must have graduated within 5 years of entry to the MSW program. Some work experience is preferred. Although GRE scores are not required for program admission, applicants may submit current scores from the GRE General Exam to supplement their application materials. GRE scores are valid for five years from the date of the exam.

1

Preference is given to applicants with a 3.0 cumulative GPA or above in their undergraduate work.

## Program Requirements

CIP Code: 44.0701

Requirements for the degree are a minimum of 60 graduate hours for the regular program and 30 graduate hours for students with advanced standing status. Students must maintain an overall GPA of 3.0 or better on all graded courses and maintain a satisfactory performance in field practicum courses. Departmental approval is required for student progression in the program if they do not earn at least a "B" in required courses. Required courses cannot be repeated. Students must also maintain conduct that is congruent with the Code of Ethics of the National Association of Social Workers.

Code	Title	Hours
<b>Generalist Courses</b>		
SWK 800	The Social Work Relationship	3
SWK 810	Human Behav Social Enviro I	3
SWK 815	Human Behav Social Enviro II	3
SWK 820	Social Work Practice I	3
SWK 825	Social Work Research Methods	3

SWK 830	Social Work Practice II	3
SWK 840	Social Work Practice III	3
SWK 845	Soc Policy Analy and Advoc	3

### Concentration Courses

SWK 860	Integrative Micro Practice	3
SWK 870	Integrative Mezzo Practice	3
SWK 880	Integrative Macro Practice	3

### Electives

Students choose from an approved Interdisciplinary University Certificate Program. Electives are based on each certificate program's curriculum. Students may request an elective course substitution by contacting the MSW Program Director.

Choose from one of the following Certifications:	9
Addictions Intervention Certificate	
Mental Health Certificate	
Child and Family Services Certificate Program	
Social Advocacy and Justice Certificate Program	
Leadership and Management Certificate Program	

### Experiential Courses

SWK 850	Generalist Practicum	6
SWK 890	Integrative Practicum	8

### Exit Requirements

#### Capstone Courses

SWK 855	Generalist Capstone	2
SWK 895	Integrative Capstone	2

<b>Total Hours</b>	<b>60</b>
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## Certificates

### Addictions Intervention Certificate

Code	Title	Hours
<b>Certificate Requirements</b>		
<b>19</b>		
Choose at least three of the following:		
CPL 828	MH/Sub Abuse Issues in Cor Stg	
MPH 810	Human Behavior Change	
NFA 826	Nutrition for Chronic Disease	
PSY 850	Psychotherapy & Behav Change I	
PSY 859	Cog/Affect Bases of Behavior	
SWK 761	Alcohol and Drug Assessment	
SWK 762	Alcohol and Drug Treatment	
SWK 863	Stress Management & Self-Care	
SWK 866	Crisis Intervention	
SWK 867	Spirit Sensitivity Help Profes	
VTS 700	Veteran Identity Theory	
Complete both of the following:		
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	
<b>Total Hours</b>	<b>19</b>	

### Mental Health Certificate

Code	Title	Hours
<b>Certificate Requirements</b>		
<b>19</b>		
Choose at least three of the following:		
CPL 828	MH/Sub Abuse Issues in Cor Stg	

MPH 810	Human Behavior Change
NFA 826	Nutrition for Chronic Disease
OTS 715	Early Child Sensorimotor Devel
OTS 863	Occupation & Sensory Process
PSY 777	The Autism Spectrum
PSY 837	Social Psy & Cultural Diversity
PSY 850	Psychotherapy & Behav Change I
PSY 859	Cog/Affect Bases of Behavior
PSY 860	Psychotherapy & Beha Change II
SWK 863	Stress Management & Self-Care
SWK 865	Social Gerontology
SWK 866	Crisis Intervention
SWK 761	Alcohol and Drug Assessment
SWK 762	Alcohol and Drug Treatment
SWK 867	Spirit Sensitivity Help Profes
VTS 700	Veteran Identity Theory
Complete both of the following:	
SWK 890	Integrative Practicum
SWK 895	Integrative Capstone
<b>Total Hours</b>	<b>19</b>

**Child and Family Services Certificate Program**

Code	Title	Hours
<b>Certificate Requirements</b>		<b>19</b>
Choose at least three of the following:		
CDF 701	Adv Prenatal & Infant Develop	
CDF 741	Infant Toddler Dev&Group Care	
CDF 744	Early Child Dev&Prog Planning	
CPL 828	MH/Sub Abuse Issues in Cor Stg	
EAD 853	Conditions of Learning	
EAD 856	Learning for At-Risk Students	
EDF 855	Found of Multicultural Educati	
EMS 777	Culturally and Linguistically Responsive Teaching	
EPY 839	Human Growth & Development	
OTS 715	Early Child Sensorimotor Devel	
OTS 863	Occupation & Sensory Process	
OTS 865	School-based Practice	
PSY 777	The Autism Spectrum	
PSY 817	Intro Foundations in Beh Analy	
SED 800	Exceptl Learners Gen Ed Class	
SED 817	Behavior Disorders	
SED 819	Mod/Sev Disabilities Intro	
SED 827	Early Ch Spec Ed Partnerships	
SWK 761	Alcohol and Drug Assessment	
SWK 762	Alcohol and Drug Treatment	
SWK 863	Stress Management & Self-Care	
SWK 864	Child and Family Services	
Complete both of the following:		
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	
<b>Total Hours</b>		<b>19</b>

**Social Advocacy and Justice Certificate Program**

Code	Title	Hours
<b>Certificate Requirements</b>		<b>19</b>
Choose at least three of the following:		
CPL 802	Violence Against Women	
CPL 812	Lead w Pol, Eth, and Emo Intel	
CPL 814	Policing and Society	
CPL 818	Rsrch Mthds Jstc Plcy and Ldrs	
CPL 830	Understanding Corr/Juv Just In	
CPL 840	Adult Corrections	
CPL 862	Race, Identity & Policing	
CPL 875	Crime and Public Policy	
MPH 810	Human Behavior Change	
SWK 845	Soc Policy Analy and Advoc	
SWK 863	Stress Management & Self-Care	
VTS 700	Veteran Identity Theory	
Complete both of the following:		
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	
<b>Total Hours</b>		<b>19</b>

**Leadership and Management Certificate Program**

Code	Title	Hours
<b>Certificate Requirements</b>		<b>19</b>
Choose at least three of the following:		
EPY 869	Research & Program Evaluation	
HLS 830	Long-Term Disaster Resilience	
HLS 835	Intergov Rltns in Disaster Mgt	
CPL 812	Lead w Pol, Eth, and Emo Intel	
CPL 835	Adv Jus Admin and Leadership	
OTS 853	Leadership in Human Services	
POL 845	Community Development	
POL 846	Non-Profit Organizations	
POL 847	Grant Writing	
POL 874	Public Sector Leadership	
PSY 873	Organizational Psychology	
PSY 874	Organization Change and Dev	
PSY 875	Training and Development	
SSE 826	Emergency Prep/Response	
SSE 830	Organizational Continuity	
SWK 863	Stress Management & Self-Care	
Complete both of the following:		
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	
<b>Total Hours</b>		<b>19</b>

**Exit Requirements****Capstone**

Students must earn at least a "B" in SWK 855 Generalist Capstone and SWK 895 Integrative Capstone. A capstone project is required in SWK 895 Integrative Capstone to demonstrate mastery in the integration of social work theory and practice with interdisciplinary knowledge for ethical,

culturally based advanced generalist interprofessional social work practice.

### Certificate Program Completion

In consultation with a student’s MSW academic advisor, each student is required to complete at least three elective courses, SWK 890 Integrative Practicum, and SWK 895 Integrative Capstone for a total of 19 credit hours as part of an approved certificate program. The capstone project and field practicum must relate to the topic of the certificate program and demonstrate competency in the practice of interprofessional social work practice.

*MSW students must have an overall GPA of 3.0 or better on all graded courses, a satisfactory performance in field practicum courses, and conduct that is congruent with the Code of Ethics of the National Association of Social Workers to be eligible for graduation.*

## Mental Health, University Certificate Interdisciplinary Certificate in Mental Health

Interdisciplinary University Certificate (IUC) programs provide a low-cost, alternative pathway for an academic credential that conveys expertise in a shared area of concern. Students gain unparalleled access to specialized courses that have been carefully selected for this curriculum. The Mental Health Certificate Program enables students to draw from different perspectives and opportunities to build interdisciplinary partnerships around cutting-edge practices in mental health care. IUC courses vary in timing of being offered, but students have a number of course options. Students can also submit a petition to the IUC Advisory Board requesting a course to be counted toward an IUC.

### Program Requirements

CIP Code: 44.0701

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from six of the following:		18
CPL 828	MH/Sub Abuse Issues in Cor Stg	
MPH 810	Human Behavior Change	
NFA 826	Nutrition for Chronic Disease	
OTS 863	Occupation & Sensory Process	
OTS 715	Early Child Sensorimotor Devel	
PSY 777	The Autism Spectrum	
PSY 837	Social Psy & Cultural Diversity	
PSY 850	Psychotherapy & Behav Change I	
PSY 859	Cog/Affect Bases of Behavior	
PSY 860	Psychotherapy & Beha Change II	
SWK 761	Alcohol and Drug Assessment	
SWK 762	Alcohol and Drug Treatment	
SWK 863	Stress Management & Self-Care	
SWK 865	Social Gerontology	
SWK 866	Crisis Intervention	
SWK 867	Spirit Sensitivity Help Profes	
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	

VTS 700 Veteran Identity Theory

**Total Hours 18**

*Students in the Master of Social Work Program (MSW) who wish to obtain this certification have separate requirements. Please refer to MSW program requirements in the ECU Graduate Catalog for more information.*

## Social Advocacy and Justice, University Certificate

### Interdisciplinary Certificate in Social Advocacy and Justice

Interdisciplinary University Certificate (IUC) programs provide a low-cost, alternative pathway for an academic credential that conveys expertise in a shared area of concern. Students gain unparalleled access to specialized courses that have been carefully selected for this curriculum. The Social Advocacy and Justice Certificate Program enables students to draw from diverse perspectives and opportunities to build interdisciplinary partnerships around cutting-edge practices in social advocacy and justice. IUC courses vary in timing of being offered, but students have a number of course options. Students can also submit a petition to the IUC Advisory Board requesting a course to be counted toward an IUC.

### Program Requirements

CIP Code: 44.0701

Code	Title	Hours
<b>Certificate Requirements</b>		
Choose from six of the following:		18
CPL 802	Violence Against Women	
CPL 812	Lead w Pol, Eth, and Emo Intel	
CRJ 814	Policing and Society	
CPL 818	Rsrch Mthds Jstc Plcy and Ldrs	
CPL 830	Understanding Corr/Juv Just In	
CPL 840	Adult Corrections	
CPL 862	Race, Identity & Policing	
CPL 875	Crime and Public Policy	
MPH 810	Human Behavior Change	
SWK 845	Soc Policy Analy and Advoc	
SWK 863	Stress Management & Self-Care	
SWK 890	Integrative Practicum	
SWK 895	Integrative Capstone	
VTS 700	Veteran Identity Theory	

**Total Hours 18**

*Students in the Master of Social Work Program (MSW) who wish to obtain this certification have separate requirements. Please refer to MSW program requirements in the ECU Graduate Catalog for more information.*

## College of Science, Technology, Engineering, & Mathematics

Dr. Tom Otieno, Dean  
Science Building 1228

(859) 622-1405

Dr. Tim Ross, Associate Dean  
(859) 622-8140

[www.science.eku.edu](http://www.science.eku.edu) (<http://www.science.eku.edu>)

Departments within the College of Science STEM offer programs leading to the following degrees: Master of Science and Master of Arts.

The Master of Science is offered by the departments of Applied Engineering and Technology, Biological Sciences; Computer Science and Information Technology; and Chemistry.

## Department of Agriculture

Interim Chair  
Carter 2

[www.agriculture.eku.edu](http://www.agriculture.eku.edu) (<http://www.agriculture.eku.edu>)  
(859) 622-2228

The Department of Agriculture provides courses at the graduate level in technical agriculture and horticulture. Students receiving graduate credit must meet additional specified requirements.

Graduate students have the choice of two degree concentrations: Master of Science in Technology Management with a concentration in Agriculture Operations, or a Master of Arts in Education with an Agriculture Education concentration.

The Master of Arts in Education with a concentration in Agriculture Education is offered through the College of Education and Applied Human Sciences, in cooperation with the Department of Agriculture. Information and requirements for this program can be found in the College of Education and Applied Human Sciences section of this Catalog.

The Master of Science in Technology Management with a concentration in Agriculture Operations is offered through the Department of Applied Engineering and Technology in cooperation with the Department of Agriculture. Information and requirements for this program can be found in the Department of Applied Engineering and Technology section of this Catalog.

## Department of Applied Engineering and Technology

Dr. Dennis Field, Interim Chair  
Whalin Technology Complex 302  
[www.technology.eku.edu](http://www.technology.eku.edu) (<http://www.technology.eku.edu>)  
(859) 622-3232

Graduate courses leading to the satisfaction of requirements for the Master of Science in Technology Management are offered by the Department of Applied Engineering and Technology.

### Master's

- Technology Management, Master of Science with a Concentration in Agriculture Operations (M.S.) (p. 801)
- Technology Management, Master of Science with a Concentration in Construction Management (M.S.) (p. 802)
- Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.) (p. 803)

- Technology Management, Master of Science with a Concentration in Engineering Operations (M.S.) (p. 804)

## Certificate

- Construction Management, Certificate (p. 801)

## Courses

### Applied Engineering Management

#### AEM 706. Six Sigma Quality. (3 Credits)

A. Formerly INT 706. Prerequisite: AEM 202. A study of six sigma methodology and current practices with an emphasis on key quality drivers and statistical methods for world-class products and companies.

#### AEM 730. Design of Experiments. (3 Credits)

A. Formerly INT 730. Prerequisite: AEM 202. Principles and practices of efficient experiment design for industry. Topics include the philosophy of experiment design, comparison of various designs, hypothesis testing, and the analysis of data.

#### AEM 801. Economics for Lean Operations. (3 Credits)

A. Cost management, budgeting, accounting, capital planning, and other topics necessary for making effective economics decisions from a lean perspective. Quantitative methods and computer applications used to formulate decisions relating to operations.

#### AEM 802. Product Assess & Analysis. (3 Credits)

A. A study of industrial productivity; its assessment, measurement, analysis and improvements with emphasis upon human productivity, and machine, material, and process productivity.

#### AEM 804. Project Management. (3 Credits)

A. Elements of managing projects including the use of modern project management software.

#### AEM 805. Operations Research. (3 Credits)

A. Concepts and applications of analytical models in decision-making. Includes general concepts of models and simulation, linear programming, transportation and assignment problems, forecasting and network flow in determining optimal industrial strategies.

#### AEM 820. Industrial Technology Proposal. (3 Credits)

A. Formerly INT 820. Prerequisite: departmental approval. An individually developed proposal related to a project typically encountered by a manager in a technical environment. The project proposal is to be approved by the student's graduate advisor.

#### AEM 821. Industrial Technology Project. (3 Credits)

A. Formerly INT 821. Prerequisite: INT 820 or departmental approval. An individually developed project related to the solution of a typical problem encountered by a manager in a technical environment. The problem is to be approved by the student's graduate advisor and the results presented in open forum.

#### AEM 822. Manufacturing Internship. (3-6 Credits)

A. Formerly INT 822. Prerequisite: departmental approval. Planned and supervised experience in industry in which the students will have the opportunity to observe and participate in manufacturing management activities. The experience must be for at least one semester and the plan of activities should be approved by the student's graduate committee.

#### AEM 839. Applied Learning in Tech Mgmt. (3-6 Credits)

(3-6) A. Prerequisite: Departmental approval. Planned and supervised experience in industry. The experience must be for at least one semester and the plan of activities must be approved by the student's graduate committee. Minimum of 80 hours work required for each academic credit.

## Construction Management

### CON 824. Engin and Construct Forensics. (3 Credits)

A. Prerequisite: Departmental approval. Design, material, and ethical failures and their impacts on engineering and construction practice. Case studies will present facts including design and construction, the failure, subsequent investigation and analysis and additional issues such as technical concerns and ethical considerations.

### CON 825. Airport Plan & Construction. (3 Credits)

A. Prerequisite: Departmental Approval. Basic airport planning and design topics including system and master planning, capacity, airside and passenger side planning, drainage and pavement design. Regulations in water and air pollution, carbon footprint, renewable energy, security, and sustainable development.

### CON 826. Practical Construction Law. (3 Credits)

A. Construction law from the perspectives of the owner, project designers, and contractor. Analysis of "real world" practical cases. Introduction to topics including contract clauses, licensure, contractor liability, dispute resolution, lien laws, and the Miller Act.

### CON 827. New Construction Entity. (3 Credits)

A. A study focused on establishing a new construction entity, which includes: selecting company type, establishing professional relationships, fulfilling federal/state mandates, developing a marketing plan and establishing a risk mitigation strategy.

### CON 828. LEED Principles & Procedures. (3 Credits)

A. A study focused on understanding of the requirements and procedures for obtaining Leadership in Energy and Environmental Design (LEED) professional accreditation.

### CON 829. Construction Portfolio Mgmt.. (3 Credits)

A. Prerequisites: Departmental Approval. A study for seasoned project managers responsible for complex projects and/or portfolios of construction projects. From charrette to managing project execution, enterprise-wide project management principles will be examined.

## Network Security Management

### NSM 815. Foundations of Network Sec. (3 Credits)

#### NSM 845. Advanced Server Security. (3 Credits)

A. Prerequisites: Departmental approval. Security management, planning, designing, performance tuning and troubleshooting servers for small-to-medium businesses (SMBs) and enterprises. Hardening services such as web, DNS, file, Directory, and Terminal access. 2 Lec/2 Lab.

#### NSM 865. Wireless & Mobile Security. (3 Credits)

A. Prerequisites: NSM 815 or departmental approval. Advanced wireless and mobile computing security consideration in small-to-medium business (SMB) and enterprise level networks: Security auditing, standards, protocols, vulnerabilities, attacks, countermeasures, network planning, management, and troubleshooting. 2 Lec/2 Lab.

#### NSM 895. Special Topics in NSM. (3 Credits)

A. Prerequisites: NSM 815 or Departmental Approval. Emerging technologies in the area of advanced computer networking or telecommunications security, including LAN/WAN/SAN system administration, hardware, software, virtualization, operating systems, scripting, and related industry certifications. 2 Lec/ 2 Lab.

## Construction Management, Certificate

The Certificate in Construction Management is designed to introduce individuals to graduate work in the construction management field.

Requirements include a bachelor's degree from a college or university of recognized standing in Construction Management or Civil Engineering, or another discipline with three years verifiable construction management experience.

Individuals who intend to complete the Certificate in Construction Management must meet Graduate School requirements for admission as a non-degree-seeking student. Students pursuing the Certificate in Construction Management must earn a "B" or better in all courses comprising the Certificate.

## Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
AEM 804	Project Management	3
CON 827	New Construction Entity	3
CON 828	LEED Principles & Procedures	3
CON 829	Construction Portfolio Mgmt.	3
<b>Total Hours</b>		<b>12</b>

## Technology Management, Master of Science with a Concentration in Agriculture Operations (M.S.)

Dr. Dennis Field, Graduate Director/Advisor  
Whalin Technology Complex 307  
www.technology.eku.edu (<http://www.technology.eku.edu>)  
(859) 622-3232

## General Information

The Master of Science degree in Technology Management has been planned for those individuals who are interested in careers in industrial, technical, construction, agriculture operations, or cyber systems technology security management. Courses in the program have been designed to cause students to examine principles, concepts, attitudes, and methods for dealing with many of the challenges that confront business and industry. The program will be of value to those who are currently employed in business, industry, or agriculture sectors and have professional growth aspirations. It will also be of value to those who have recently completed undergraduate study and want additional preparation before embarking upon their career.

Upon completion of a degree in Technology Management, graduates will be able to:

1. plan, implement, and analyze technical projects;
2. demonstrate ability to formulate and apply advanced technical problem solving and managerial concepts; and
3. accurately synthesize their total program experience.

## Admission Requirements

Applicants are expected to present proper prerequisite preparation or technical management experience.

For the Agriculture Operations concentration, applicants should possess an undergraduate degree in an agriculturally-related field and have an understanding of and experience in agricultural production practices.

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 144 on the Verbal and Quantitative sections.

## International Students

Applications from international students are encouraged. Refer to the University admission guidelines for admitting international students.

## Program Requirements

CIP Code: 15.1501

Individual plans of study will include work from the following areas:

Code	Title	Hours
<b>Core Courses</b>		
AEM 801	Economics for Lean Operations	3
AEM 804	Project Management	3
TEC 830	Creative Problem Solving	3
<i>Synthesis Experience</i>		
TEC 860	Research in Technology	3
AEM 821	Industrial Technology Project	3
or AEM 839	Applied Learning in Tech Mgmt	
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Agriculture Operations		
Engineering Operations		
Construction Management		
Cyber Systems Tech Security		
<b>Supporting Course Requirements</b>		
Choose from six hours of Supporting Courses		6
Courses for one concentration may serve as supporting courses for the other three concentrations.		
Valid supporting courses for the Construction Management concentration and the Cyber Systems Tech Security concentration:		
AEM 706	Six Sigma Quality	
AEM 802	Product Assess & Analysis	
AEM 805	Operations Research	
Valid supporting courses for the Engineering Operations concentration and the Construction Management concentration:		
NSM 815	Foundations of Network Sec	
NSM 845	Advanced Server Security	
NSM 895	Special Topics in NSM	
<b>Exit Requirements</b>		
GRD 867C	MS Ind Tech Written Comp Exam	0
or GRD 868B	MS Ind Tech Oral Comp Exam	
<b>Total Hours</b>		<b>30</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 720	Global Food Systems	3

AGR 850	Agricultural Policy	3
Choose from three hours of the following with advisor approval:		3
AGR 701	Independent Study in Ag	
AGR 709	Ag Research Mthds & Intrprttn	
AGR 770	Advanced Technical Agriculture	
AGR 807	Adv Tech Study in Agr Problems	
<b>Total Hours</b>		<b>9</b>

## Exit Requirements

### Thesis

The thesis is not required in the Master of Science in Technology Management.

### Comprehensive Examinations

The candidate will have an opportunity to show professional growth through a written and/or oral examination (GRD 867C MS Ind Tech Written Comp Exam or GRD 868B MS Ind Tech Oral Comp Exam) covering the various program components during the term in which graduation is scheduled.

## Technology Management, Master of Science with a Concentration in Construction Management (M.S.)

Dr. Dennis Field, Graduate Director/Advisor  
Whalin Technology Complex 307  
www.technology.eku.edu (<http://www.technology.eku.edu>)  
(859) 622-3232

## General Information

The Master of Science degree in Technology Management has been planned for those individuals who are interested in careers in industrial, technical, construction, agriculture operations, or cyber systems technology security management. Courses in the program have been designed to cause students to examine principles, concepts, attitudes, and methods for dealing with many of the challenges that confront business and industry. The program will be of value to those who are currently employed in business, industry, or agriculture sectors and have professional growth aspirations. It will also be of value to those who have recently completed undergraduate study and want additional preparation before embarking upon their career.

Upon completion of a degree in Technology Management, graduates will be able to:

1. plan, implement, and analyze technical projects;
2. demonstrate ability to formulate and apply advanced technical problem solving and managerial concepts; and
3. accurately synthesize their total program experience.

## Admission Requirements

Applicants are expected to present proper prerequisite preparation or technical management experience.

For the Construction Management and the Engineering Operations concentrations, applicants should have an understanding of materials and processes, the principles of production control, and the economics of

industry; computer literacy; the ability to communicate graphically; and the ability to apply statistics to the solution of industrial problems.

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 144 on the Verbal and Quantitative sections.

### International Students

Applications from international students are encouraged. Refer to the University admission guidelines for admitting international students.

## Program Requirements

CIP Code: 15.1501

Individual plans of study will include work from the following areas:

Code	Title	Hours
<b>Core Courses</b>		
AEM 801	Economics for Lean Operations	3
AEM 804	Project Management	3
TEC 830	Creative Problem Solving	3
<i>Synthesis Experience</i>		
TEC 860	Research in Technology	3
AEM 821	Industrial Technology Project	3
or AEM 839	Applied Learning in Tech Mgmt	
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Agriculture Operations		
Engineering Operations		
Construction Management		
Cyber Systems Tech Security		
<b>Supporting Course Requirements</b>		
Choose from six hours of Supporting Courses		6
Courses for one concentration may serve as supporting courses for the other three concentrations.		
Valid supporting courses for the Construction Management concentration and the Cyber Systems Tech Security concentration:		
AEM 706	Six Sigma Quality	
AEM 802	Product Assess & Analysis	
AEM 805	Operations Research	
Valid supporting courses for the Engineering Operations concentration and the Construction Management concentration:		
NSM 815	Foundations of Network Sec	
NSM 845	Advanced Server Security	
NSM 895	Special Topics in NSM	
<b>Exit Requirements</b>		
GRD 867C	MS Ind Tech Written Comp Exam	0
or GRD 868B	MS Ind Tech Oral Comp Exam	
<b>Total Hours</b>		<b>30</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
CON 827	New Construction Entity	3
CON 828	LEED Principles & Procedures	3
CON 829	Construction Portfolio Mgmt.	3
<b>Total Hours</b>		<b>9</b>

## Exit Requirements

### Thesis

The thesis is not required in the Master of Science in Technology Management.

### Comprehensive Examinations

The candidate will have an opportunity to show professional growth through a written and/or oral examination (GRD 867C MS Ind Tech Written Comp Exam or GRD 868B MS Ind Tech Oral Comp Exam) covering the various program components during the term in which graduation is scheduled.

## Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.)

Dr. Dennis Field, Graduate Director/Advisor  
 Whalin Technology Complex 307  
[www.technology.eku.edu](http://www.technology.eku.edu) (<http://www.technology.eku.edu>)  
 (859) 622-3232

## General Information

The Master of Science degree in Technology Management has been planned for those individuals who are interested in careers in industrial, technical, construction, agriculture operations, or cyber systems technology security management. Courses in the program have been designed to cause students to examine principles, concepts, attitudes, and methods for dealing with many of the challenges that confront business and industry. The program will be of value to those who are currently employed in business, industry, or agriculture sectors and have professional growth aspirations. It will also be of value to those who have recently completed undergraduate study and want additional preparation before embarking upon their career.

Upon completion of a degree in Technology Management, graduates will be able to:

1. plan, implement, and analyze technical projects;
2. demonstrate ability to formulate and apply advanced technical problem solving and managerial concepts; and
3. accurately synthesize their total program experience.

## Admission Requirements

Applicants are expected to present proper prerequisite preparation or technical management experience.

For the Cyber Systems Tech Security concentration, applicants should have an understanding of wired and wireless computer network communications, prior educational or work experience related to

managing computer network software and hardware; effective communication skills; and the ability to identify, analyze and solve computer network related problems.

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 144 on the Verbal and Quantitative sections.

## International Students

Applications from international students are encouraged. Refer to the University admission guidelines for admitting international students.

## Program Requirements

CIP Code: 15.1501

Individual plans of study will include work from the following areas:

Code	Title	Hours
<b>Core Courses</b>		
AEM 801	Economics for Lean Operations	3
AEM 804	Project Management	3
TEC 830	Creative Problem Solving	3
<i>Synthesis Experience</i>		
TEC 860	Research in Technology	3
AEM 821 or AEM 839	Industrial Technology Project Applied Learning in Tech Mgmt	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Agriculture Operations		
Engineering Operations		
Construction Management		
Cyber Systems Tech Security		
<b>Supporting Course Requirements</b>		
Choose from six hours of Supporting Courses		6
Courses for one concentration may serve as supporting courses for the other three concentrations.		
Valid supporting courses for the Construction Management concentration and the Cyber Systems Tech Security concentration:		
AEM 706	Six Sigma Quality	
AEM 802	Product Assess & Analysis	
AEM 805	Operations Research	
Valid supporting courses for the Engineering Operations concentration and the Construction Management concentration:		
NSM 815	Foundations of Network Sec	
NSM 845	Advanced Server Security	
NSM 895	Special Topics in NSM	
<b>Exit Requirements</b>		
GRD 867C or GRD 868B	MS Ind Tech Written Comp Exam MS Ind Tech Oral Comp Exam	0
<b>Total Hours</b>		<b>30</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
NSM 815	Foundations of Network Sec	3
NSM 845	Advanced Server Security	3
NSM 895	Special Topics in NSM	3
<b>Total Hours</b>		<b>9</b>

## Exit Requirements

### Thesis

The thesis is not required in the Master of Science in Technology Management.

### Comprehensive Examinations

The candidate will have an opportunity to show professional growth through a written and/or oral examination (GRD 867C MS Ind Tech Written Comp Exam or GRD 868B MS Ind Tech Oral Comp Exam) covering the various program components during the term in which graduation is scheduled.

## Technology Management, Master of Science with a Concentration in Engineering Operations (M.S.)

Dr. Dennis Field, Graduate Director/Advisor  
Whalin Technology Complex 307  
www.technology.eku.edu (<http://www.technology.eku.edu>)  
(859) 622-3232

## General Information

The Master of Science degree in Technology Management has been planned for those individuals who are interested in careers in industrial, technical, construction, agriculture operations, or cyber systems technology security management. Courses in the program have been designed to cause students to examine principles, concepts, attitudes, and methods for dealing with many of the challenges that confront business and industry. The program will be of value to those who are currently employed in business, industry, or agriculture sectors and have professional growth aspirations. It will also be of value to those who have recently completed undergraduate study and want additional preparation before embarking upon their career.

Upon completion of a degree in Technology Management, graduates will be able to:

1. plan, implement, and analyze technical projects;
2. demonstrate ability to formulate and apply advanced technical problem solving and managerial concepts; and
3. accurately synthesize their total program experience.

## Admission Requirements

Applicants are expected to present proper prerequisite preparation or technical management experience.

For the Construction Management and the Engineering Operations concentrations, applicants should have an understanding of materials and processes, the principles of production control, and the economics of

industry; computer literacy; the ability to communicate graphically; and the ability to apply statistics to the solution of industrial problems.

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 144 on the Verbal and Quantitative sections.

## International Students

Applications from international students are encouraged. Refer to the University admission guidelines for admitting international students.

## Program Requirements

CIP Code: 15.1501

Individual plans of study will include work from the following areas:

Code	Title	Hours
<b>Core Courses</b>		
AEM 801	Economics for Lean Operations	3
AEM 804	Project Management	3
TEC 830	Creative Problem Solving	3
<i>Synthesis Experience</i>		
TEC 860	Research in Technology	3
AEM 821	Industrial Technology Project	3
or AEM 839	Applied Learning in Tech Mgmt	
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Agriculture Operations		
Engineering Operations		
Construction Management		
Cyber Systems Tech Security		
<b>Supporting Course Requirements</b>		
Choose from six hours of Supporting Courses		6
Courses for one concentration may serve as supporting courses for the other three concentrations.		
Valid supporting courses for the Construction Management concentration and the Cyber Systems Tech Security concentration:		
AEM 706	Six Sigma Quality	
AEM 802	Product Assess & Analysis	
AEM 805	Operations Research	
Valid supporting courses for the Engineering Operations concentration and the Construction Management concentration:		
NSM 815	Foundations of Network Sec	
NSM 845	Advanced Server Security	
NSM 895	Special Topics in NSM	
<b>Exit Requirements</b>		
GRD 867C	MS Ind Tech Written Comp Exam	0
or GRD 868B	MS Ind Tech Oral Comp Exam	
<b>Total Hours</b>		<b>30</b>

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AEM 706	Six Sigma Quality	3
AEM 802	Product Assess & Analysis	3
AEM 805	Operations Research	3
<b>Total Hours</b>		<b>9</b>

## Exit Requirements

### Thesis

The thesis is not required in the Master of Science in Technology Management.

### Comprehensive Examinations

The candidate will have an opportunity to show professional growth through a written and/or oral examination (GRD 867C MS Ind Tech Written Comp Exam or GRD 868B MS Ind Tech Oral Comp Exam) covering the various program components during the term in which graduation is scheduled.

## Department of Biological Sciences

Dr. Sherry Harrel, Chair

Dr. Luke Dodd, Graduate Coordinator/Advisor

[www.biology.eku.edu](http://www.biology.eku.edu) (<http://www.biology.eku.edu>)  
(859) 622-1531

## General Information

The Department of Biological Sciences provides opportunities for graduate studies leading to the Master of Science degree in Biology. Thesis and non-thesis programs of study are available. A planned program of study, based on individual needs is selected by each student in consultation with the student's graduate committee. Students engaged in thesis work may conduct research in such areas as aquatic biology, animal behavior and ecology, plant systematics and ecology, wildlife and conservation biology, physiological and molecular ecology, and biomedical sciences including cellular and molecular biology, and microbiology.

The Master of Arts in Teaching Secondary Education degree with a concentration in Biology is offered by the College of Education and Applied Human Sciences in cooperation with the Department of Biological Sciences. Requirements for the degree are found in the College of Education and Applied Human Sciences section of this Catalog.

The Department of Biological Sciences cooperates with other departments in the College of STEM and the College of Education and Applied Human Sciences in offering the Master of Arts in Education, Secondary Education with a concentration in Biology. This concentration is primarily for non-specialized science teachers and is described in the College of Education and Applied Human Science section of this Catalog.

## Master's

- Biology, Master of Science (M.S.) (p. 808)

## Courses

### **BIO 700. Environmental Issues. (3 Credits)**

(3) II. Students will learn to identify, investigate and evaluate environmental issues as well as plan appropriate action based on their analysis. Credit will not be awarded to students who have credit for BIO 500, ENV 700 or CNM 800.

### **BIO 711. Experiment Appro/Molecular Bio. (3 Credits)**

I. Laboratory experiencebased course in molecular biology techniques. Subject will be introduced in a lecture setting and practical laboratory training. Techniques will include PCRbased methodologies, immunological approaches, and basic protein and nucleic acid manipulations. 1 Lec/4 Lab.

### **BIO 714. Evolution. (3 Credits)**

A. A study of Darwinism, the history of life in the context of contemporary biology, and the evidences and mechanisms of evolutionary change, with particular emphasis on human evolution and the challenges of teaching and understanding evolution in modern society.

### **BIO 720. Invasive Species Management. (3 Credits)**

A. Examination of the circumstances that allow introduced species to become invasive. Reviews the current approaches used to reduce the incidence and impact of invasive species. Credit will not be awarded to students who have credit for BIO 599/799 Special Topics: Invasive Species Management.

### **BIO 721. Plant Ecology. (4 Credits)**

A. Ecological concepts and principles relevant to eastern terrestrial ecosystems. Required weekend field trips and an extended field trip in the region. 2 Lec/4 Lab.

### **BIO 722. Grasses & Grasslands. (3 Credits)**

I. Prerequisite: instructor approval. Development and composition of grasslands; phylogeny, classification, and identification of grasses. Emphasis on North American grasses and grasslands, with field trips to native and managed grasslands. 1 Lec/4 Lab.

### **BIO 725. Aquatic and Wetland Plants. (3 Credits)**

A. Collection, systematics, distribution, ecology, and reproduction of aquatic and wetland vascular plants. 1 Lec/4 Lab.

### **BIO 727. Immunology. (3 Credits)**

I. Characteristics of immune reactions at the molecular level and in vivo. Nature and interactions of antigens and antibodies, and allergic phenomena. 2 Lec/3 Lab.

### **BIO 728. Virology. (3 Credits)**

A. Fundamentals of classification, structure, and pathogenesis of viruses. Host-virus interactions and their applications to medicine and industry. Related areas of immunology, cell culture procedures and applications will be introduced. 2 Lec/3 Lab.

### **BIO 729. Microbiology in Everyday Life. (3 Credits)**

I, II. Microbes in medicine, agriculture, and industry; emphasis on teaching microbiology in the classroom. Course open to Biology-Teaching or Education majors.

### **BIO 731. Principles Molecular Biology. (4 Credits)**

I, II. An in-depth study of the structure, function, and technological applications of nucleic acids and proteins. Laboratory experiences will involve manipulation of DNA and RNA molecules for the purpose of isolation, genetic engineering, forensics, and gene expression analysis. Credit will not be awarded for both BIO 731 and BIO 731S. 2 Lec/4 Lab.

### **BIO 731S. Principles of Molecular BIO I. (4 Credits)**

I, II. An in-depth study of the structure, function, and technological applications of nucleic acids and proteins. Laboratory experiences will involve manipulation of DNA and RNA molecules for the purpose of isolation, genetic engineering, forensics, and gene expression analysis. Credit will not be awarded for both BIO 731 and BIO 731S. 2 Lec/4 Lab.

### **BIO 732. Conservation Biology. (3 Credits)**

II. Examination of principles and practices of conserving global biological diversity. Emphasis on causes, consequences and rates of extinction, as well as the natural resource planning and policies used to mitigate the loss of biodiversity. Focus will be given to the application of philosophical, biological, sociological, legal, and on-the-ground management principles for the conservation of genes, species and ecosystems.

### **BIO 733. Bioinformatics:Principles & App. (3 Credits)**

A. An exposure to the theory and practice of bioinformatics as they relate to laboratory (Cell and Molecular Biology, Biochemistry) and field (Evolutionary and Population Biology) research applications in the life sciences. Discussion and utilization of the prevalent approaches and methodologies currently used in Bioinformatics.

### **BIO 735. Pathogenic Microbiology. (4 Credits)**

A. Studies in the field of advanced clinical microbiology with emphasis on morphology, cultivation, biochemistry, and serological identification of bacterial diseases; aspects of pathogenesis, epidemiology, and control measures of bacterial and mycotic diseases. 2 Lec/4 Lab.

### **BIO 736. Dendrology. (3 Credits)**

A. Woody plant taxonomy with emphasis on field identification of trees and shrubs in summer and winter conditions; habitats and distributions; economic importance; forest regions of North America. 1 Lec/4 Lab.

### **BIO 742. Freshwater Invertebrates. (3 Credits)**

A. Collection, systematics, distribution, behavior, ecology, and life histories of freshwater invertebrates. 2 Lec/3 Lab.

### **BIO 746. Histology. (4 Credits)**

II. This course will provide students with an essential understanding of functional morphology in vertebrate tissues and organs. Pathology examples will be used to explain the cellular and molecular basis of normal function related to structure. 2 Lec/4 Lab.

### **BIO 747. Comparat Vertebrate Embryology. (4 Credits)**

A. Gametogenesis, fertilization, morphogenesis, and organogenesis of the frog, bird, and mammal. Particular emphasis is placed on mammalian development. 2 Lec/4 Lab.

### **BIO 748. Insect Diversity. (3 Credits)**

A. An introduction to the insects with an emphasis on classification, identification, natural history, and evolution of insect orders and common families. (2 Lec/3 Lab). Credit will not be awarded for both BIO 748 and BIO 799: Topics on Biological Sciences.

### **BIO 749. Neurobiology. (3 Credits)**

I. A discussion of the cellular architecture of the nervous system, with emphasis on the biochemical and electrophysiological properties of neurons and glia that control cognition, learning and memory, emotion, sensation and perception, endocrine regulation, and neurological illness. An overview of molecular research methods used to investigate neural function.

### **BIO 750. Animal Behavior. (4 Credits)**

II. Advanced study of behavior with emphasis on inherited behavioral patterns in relation to the evolution and ecology of animals. 3 Lec/2 Lab.

**BIO 753. Mammalogy. (3 Credits)**

I. Classification, natural history, field methods, and distribution of mammals. Requires participation in an extended field trip outside of normal class hours. 1 Lec/4 Lab.

**BIO 754. Ornithology. (3 Credits)**

II. Avian biology with emphasis on field identification of local avifauna, anatomy, physiology, ecology, evolution, migration, economic importance, distribution, and behavioral patterns. Early morning field trips required. 2 Lec/4 Lab.

**BIO 755. Behavioral Ecology. (3 Credits)**

A. How behavior is influenced by natural selection in relation to ecological conditions. Emphasis on quantitative and experimental methods and on integrating theoretical ideas with field and laboratory experience.

**BIO 756. Herpetology. (3 Credits)**

II. Natural history of the amphibians and reptiles including taxonomy, general ecology, behavior, distribution, breeding, and food habits. 2 Lec/3 Lab.

**BIO 757. Ichthyology. (3 Credits)**

I. A phylogenetic examination of morphological, ecological, and behavioral diversifications of fishes in the world, with special attention to the Appalachian fauna. Laboratory devoted to anatomy, identification, and reproductive strategies. 2 Lec/Lab.

**BIO 758. Freshwater Ecology. (3 Credits)**

A. Ecology of lakes and streams with reference to physical, chemical, and biological factors. To include a variety of methods and instruments. 2 Lec/3 Lab.

**BIO 761. Fish Biology & Management. (3 Credits)**

A. Methods for assessment and analysis of fish populations and aquatic habitats, including age and growth, fecundity, food habits, and yield. Emphasis on economics and ecological importance of management decisions. 2 Lec/4Lab.

**BIO 790. Ecology for Teachers. (3 Credits)**

(3) I. This course introduces ecology and the environment through an interdisciplinary approach beginning with the physical environment progressing to whole ecosystems and onto analyses of ecological sustainability. Classroom strategies and techniques will be modeled. Credit will not be awarded to students you have credit for ENV 790 or CNM 799.

**BIO 795. Topics in Field Biology:\_\_\_\_\_. (3 Credits)**

A. Prerequisite: Departmental Approval. Concepts, methods, analyses, and organismal identification used to study selected topic. Material will be taught using a combinations of lecture, discussion, and experiential learning via hands-on field activities. May be repeated up to a maximum of 12 hours provided subject matter is different each time. 1 Lec/4 Lab.

**BIO 798. Special Problems. (1-3 Credits)**

I, II. Prerequisite: students must have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment. Independent research in the biological sciences, under the guidance of a faculty member, which allows students to design a research problem and make experimental observations and conclusions. May be retaken to a maximum of four hours.

**BIO 799. Topics in Bio Sciences:\_\_\_\_\_. (6 Credits)**

A. Prerequisite: departmental approval. Special topics in the biological sciences of current interest to faculty and students may be presented through lecture, discussion, lab and field experiences, and report. May be retaken to a maximum of nine hours. Provided subject matter differs each time.

**BIO 800. Biology and Ethics. (1 Credit)**

(1) I. Responsibilities and ethics of research and teaching in the biological sciences. 2 Lab.

**BIO 801. Scien Lit & Writing-Biology. (2 Credits)**

I. Directed readings in biology designed to acquaint the student with the major sources of literature, the delimitation of problems, note taking, the making of bibliographies, and the writing of scientific articles.

**BIO 802. Selected Topics in Bio Sci. (1-4 Credits)**

A. Advanced study of modern biological principles and the solution of interacting problems. The course content will be designed to meet the needs of students in specialized areas of biology. May be retaken to a maximum of eight hours.

**BIO 806. Aquatic Entomology. (3 Credits)**

A. To develop an understanding of, and an appreciation for, aquatic insects. Techniques on collecting as well as the biology, ecology, and systematics of each of the aquatic insect orders will be considered. 2 Lec/3 Lab.

**BIO 810. Biostatistics. (3 Credits)**

I. Statistical analysis of biological data. Students participate in the taking and processing of data by use of well-established statistical techniques. 2 Lec/2 Lab.

**BIO 816. Biogeography. (3 Credits)**

A. Physical and biotic factors influencing the evolution, diversity and distribution of Earth's biota; ecogeographic principles, patterns and theories related to the diversity and distributions of organisms.

**BIO 820. Principles of Pharmacology. (3 Credits)**

An in-depth study of how drugs interact and alter biological systems in the body. The concepts of drug metabolism, physiological response, and therapy will be emphasized. 3 Lec.

**BIO 821. Applications in Flow Cytometry. (3 Credits)**

This course focuses on principles, applications and quality assurance of flow cytometry in research and clinical use in immunology, hematology and transplantation. Emphasis is placed on the biological and physical principles underlying flow cytometry. 2 Lec/2 Lab.

**BIO 831. Molecular Regulation. (3 Credits)**

A. Discussion and experimental manipulation of transcriptional/translational regulation in eukaryotes/prokaryotes with reliance on the current literature as reference. Coverage of regulatory mechanisms and experimental approaches. 2 Lec/2 Lab.

**BIO 839. Co-op or Appl. Lrn: Biology. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in a cooperative job experience related to student's academic studies. Credit varies with hours of employment; three to six hours per semester or summer. May be retaken at the discretion of the department or college involved. A minimum of eighty hours of work is required for each academic credit. Credit does not apply toward the M.S. degree requirements.

**BIO 845. Vert Physiological Ecology. (3 Credits)**

A. Comparative study of physiological mechanisms of vertebrates in response to changing environmental conditions. Topics emphasized include temperature adaptation, color change, orientation, and biological rhythms. 2 Lec/3 Lab.

**BIO 846. Population Ecology. (3 Credits)**

A. Theoretical and applied study of size and organization of animal and plant populations and the physical and biological factors affecting spatial and temporal patterns.

**BIO 847. Community Ecology. (3 Credits)**

(3) A. Principles and applications of community ecology: including species interactions, community structure and diversity, and succession. Statistical methods in community ecology. (2Lec/3 Lab).

**BIO 848. Aquatic Ecosystems. (3 Credits)**

A. Modern methods for analysis of biological integrity of aquatic ecosystems. To include fieldwork involving various methods, and the calculation and discussion of currently used metrics. 2 Lec/3 Lab.

**BIO 849. Field Methods in Ecology. (3 Credits)**

A. Field sampling techniques and methods of observation applicable to describing terrestrial plant and animal communities. Field data utilized to develop an environmental impact statement. 6 Lab.

**BIO 880. Current Review of Biology. (3 Credits)**

A. Prerequisite: BIO 801 or departmental approval. Summary and critical evaluation of current research in a particular area of biology, written in consultation with faculty advisor. Required of graduate students in non-thesis program. Cannot be used to meet requirements in the thesis program.

**BIO 881. Independent Study. (1-4 Credits)**

I, II. Prerequisite: approval of independent study proposal form by faculty supervisor and department chair prior to enrollment. Advanced research in the biological sciences under the guidance of a faculty member, which allows students to design a research problem and make experimental observations and conclusions. May be retaken to a maximum of four semester hours. Credit will not be given to students enrolled in the M.S. Biology thesis program.

**BIO 890. Graduate Seminar. (1 Credit)**

A. Prerequisite: BIO 801. Presentation and discussion of selected topics and research in the biological sciences. Required of all graduate students and may be retaken to a maximum of two hours.

**BIO 891. Thesis Research. (1-6 Credits)**

A. The accomplishment of an independent research project, in consultation with a faculty advisor, for the preparation of a thesis as part of the requirements for the M.S. degree in Biology. May be retaken to a maximum of six hours.

**BIO 891C. Continuation - Thesis Research. (1-9 Credits)**

A. Prerequisite: departmental approval. The continuation of an independent research project, in consultation with a faculty advisor, for the preparation of a thesis as part of the requirements for the M.S. degree in Biology. May be retaken as necessary to complete research thesis. A student must have registered for six hours of BIO 891 before registering for BIO 891C. May not be used to satisfy degree program requirements.

## Biology, Master of Science (M.S.)

### General Requirements

Graduate students must complete a minimum of 30-36 graduate semester hours for the Master of Science degree, depending on whether a thesis or non-thesis program is followed. At least 50 percent of the course work hours must be at the 800 level. The planned program of study must consist of:

- at least 18-24 semester hours of biology including BIO 810 Biostatistics (3 hours), BIO 801 Scien Lit & Writing-Biology (2 hours), BIO 800 Biology and Ethics (1 hour), and
- 12 semester hours of additional electives in biology or other courses in the natural and mathematical sciences.

A grade point average of 3.0 must be maintained; a maximum of six semester hours of course work with a grade of "C" may be applied toward degree requirements.

### Admission Requirements

All applicants must meet the general requirements established by the Office of Graduate Education and Research for clear admission. Final acceptance of an applicant is determined by the Graduate Affairs Committee of the Department of Biological Sciences.

All applications to the Graduate School must include:

- Completed application for admission, including a statement of personal and professional objectives
- Application Fee
- Scores on the verbal, quantitative, and analytical portions of the Graduate Record Examination [GRE]
- Grade point average (GPA) & official transcript(s)
- Three letters of recommendation
- The departmental experience & essay form (MSWord document)
- The Graduate Studies Advisor Agreement Form.

All applicants must meet the general requirements established by the Graduate School for clear admission. In addition, applicants are expected to have verbal scores of 146 or above, quantitative scores of 140 or above, and analytical writing scores of 3.0 or above on the Graduate Record Exam. Applicants should have an undergraduate major in an area of the biological sciences, and supporting courses in chemistry, physics, and mathematics are recommended. Any deficiencies in a successful applicant's undergraduate training will be specified by the Department's Graduate Affairs Committee at the time of admission.

Prior to admission, applicants must have a faculty member from the Department of Biological Sciences agree to serve as their advisor should they be accepted to the program. Information concerning the research interests of faculty in the Department of Biological Sciences is available online at <http://biology.eku.edu/people> (<http://biology.eku.edu/people/>). Applicants should contact faculty with similar research interests to determine if they are accepting new students and would be willing to serve as their advisor. Once an advisor has been identified, applicants and/or advisors should inform the Graduate Coordinator. Applications will not be considered complete without the Graduate Studies Advisor Agreement Form.

### Program Requirements

CIP Code: 26.0101

Courses equivalent to BIO 111 Cell and Molecular Biology and BIO 112 Ecology and Evolution, BIO 315 Genetics, BIO 348 Vertebrate Physiology, CSC 190 Object- Oriented Programming I, CSC 191 Object- Oriented Programming II, CSC 195 Discrete Structures II may be required as prerequisites.

Code	Title	Hours
<b>Biology Core</b>		
BIO 800	Biology and Ethics	1
BIO 801	Scien Lit & Writing-Biology	2
BIO 810	Biostatistics	3
<b>Tracks</b>		
Choose from one of the following tracks:		24-31

**Thesis Track**

BIO 891	Thesis Research
Choose from 18 hours of approved electives	

**Non-Thesis Track**

BIO 880	Current Review of Biology
Choose from two of the following:	
BIO 727	Immunology
BIO 728	Virology
BIO 731	Principles Molecular Biology
BIO 821	Applications in Flow Cytometry
BIO 831	Molecular Regulation
BIO 848	Aquatic Ecosystems
BIO 849	Field Methods in Ecology
Choose from 20-21 hours of approved electives	

**Exit Requirements**

GRD 857A	MS Bio 1st Written Comp Exam	0
GRD 858A	MS Bio Oral Exam	0

**Total Hours** **30-37**

## Exit Requirements

All students must demonstrate their knowledge of biology by successfully passing an oral examination (GRD 857A MS Bio 1st Written Comp Exam) and by successfully defending their thesis (or, if pursuing the non-thesis program, their BIO 880 Current Review of Biology paper) in an oral examination (GRD 858A MS Bio Oral Exam). The committee for a student shall consist of the faculty member who has agreed to serve as the student's advisor and at least two members of the department's Graduate faculty members.

## Thesis Program

Six semester hours of Thesis Research (BIO 891 Thesis Research) are required in the 30-hour thesis program. A thesis based on the student's research must be submitted. Twenty-four hours of additional coursework will complete the requirements for the degree. Credit will not be given for BIO 880 Current Review of Biology or BIO 881 Independent Study in the thesis program.

## Non-Thesis Program

Three semester hours of BIO 880 Current Review of Biology are required in the 36-hour non-thesis program. Thirty hours of additional coursework will complete the requirements for the degree. Credit will not be given for BIO 891 Thesis Research in this program.

# Department of Chemistry

Dr. Tanea Reed  
(859) 622-1456

Science Building 4126

Dr. Karim Abdelhay, Graduate Coordinator/Advisor  
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(859) 622-1456

The Department of Chemistry cooperates with the other STEM departments and the College of Education and Applied Human Sciences in offering the degree of Master of Arts in Education, in Secondary Education with a concentration in Physical Science. The program is primarily for non-specialized science teachers and is described more

thoroughly in the College of Education and Applied Human Sciences section of this Catalog.

## Accelerated Dual Degree Programs (3+2)

The Accelerated Dual Degree (3+2) program integrates the current available degrees Chemistry (B.S.) or Forensic Science (B.S.) with the requirements for the M.S. Chemistry degree. Therefore, EKU undergraduate students can attain a M.S. degree with only one extra year of study. Students may apply for admission to the 3+2 program once the entrance requirements are satisfied (typically in their junior or senior year). Once students are accepted into the 3+2 program, the graduate program curriculum (with specific track) will be integrated into the curriculum where 9 semester hours of 700-level graduate coursework is applicable to both the undergraduate and graduate degree. Students in the dual degree chemistry program are projected to receive both the Baccalaureate and Master's degrees after five years of full-time study.

## Master's

*No results were found.*

## Courses

**CHE 701. Chemtopics: \_\_\_\_\_ (3 Credits)**

A. Prerequisite: instructor approval. Topics to be chosen from a current and/or specialized area of chemistry such as environmental chemistry or industrial chemistry, and will vary according to students' needs. May be retaken to a maximum of six hours.

**CHE 701A. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701B. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701C. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701D. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701E. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701L. Chemtopics Lab: \_\_\_\_\_. (1 Credit)**

A. Prerequisite: departmental approval. Laboratory experiences chosen from specialized areas of chemistry including advanced chemical instrumentation/analysis, synthetic methods, computational chemistry, or molecular modeling. Topics vary according to student needs. May be retaken to a maximum of two hours. 3 Lab.

**CHE 702. Polymers & Particles. (1 Credit)**

A. Study of the structure, synthesis, preparation, characterization, and properties of synthetic polymers, supramolecular aggregates, and/or meso- or nanoscale materials. (3 Lab)

**CHE 715. Synthetic & Analytical Methods. (3 Credits)**

A. Corequisite: CHE 715L. Synthesis, isolation, purification, and characterization (including spectroscopy and other analytical methods) of inorganic and organic compounds and mixtures. Other methods include handling of air and moisture sensitive compounds and molecular computations. 3 Lec/6 Lab.

**CHE 715L. Synthet & Analytical Metho Lab. (2 Credits)**

A. Corequisite: CHE 715. Synthesis, isolation, purification, and characterization (including spectroscopy and other analytical methods) of inorganic and organic compounds and mixtures. Other methods include handling of air and moisture sensitive compounds and molecular computations. 6 Lab.

**CHE 720. Mass Spectrometry. (3 Credits)**

A. Prerequisite: Departmental approval. Topics include types of mass spectrometers: qualitative and quantitative mass spectrometry, different ionization processes, sample inlet systems (including chromatography systems), and interpretation of mass spectral data.

**CHE 770. Biophysical Chemistry I. (4 Credits)**

I, II. An introduction to physical and chemical explanations of biological phenomenon and physical chemistry theories and methodologies applied on biological systems. Topics include thermodynamics, chemical equilibrium, kinetics, quantum chemistry, spectroscopy, and selected topics. 6 Lec/Lab Credit will not be awarded for both CHE 770 and 570.

**CHE 774. Physical Chemistry I. (3 Credits)**

A. Corequisite: CHE 774L. A study of thermodynamic properties in physical and chemical systems; electrochemical processes; rates and mechanisms of chemical reactions.

**CHE 774L. Physical Chemistry Lab I. (1 Credit)**

A. Prerequisites or Corequisites: CHE 774 (C or better). Laboratory component of CHE 774. Experimental work to illustrate principles of physical chemistry that include thermochemistry, thermodynamics, equilibrium, and reaction kinetics. 3 Lab.

**CHE 775. Physical Chemistry II. (3 Credits)**

A. Corequisite: CHE 775L. An introduction to quantum mechanics as applied to model, atomic, and molecular systems; applications of atomic and molecular spectroscopy; introduction to computational chemistry.

**CHE 775L. Physical Chemistry Lab II. (1 Credit)**

A. Prerequisites or Corequisites: CHE 775 (C or better). Laboratory component of CHE 775. Experimental work to illustrate principles of physical chemistry including UV-visible, infrared, and fluorescence spectroscopic techniques, fundamentals of laser operation, statistical mechanics, and computational chemistry.

**CHE 776. Advanced Physical Chemistry. (3 Credits)**

A. Prerequisite: CHE 575 (MAT 353 Recommended) or departmental approval. Intermediate and advanced topics in thermodynamics, kinetics, structure and bonding. Credit will not be awarded to students who have credit for CHE 772.

**CHE 801. Special Topics in CHE Ed. (3-6 Credits)**

(3) A. Prerequisite: Departmental approval. Areas of secondary school chemical content aligned with current state and national standards. May be retaken for a maximum of 6 credit hours provided topics are different. Lec/Lab.

**CHE 802. Topics in Analytical Chemistry. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics chosen from advanced areas of interest and vary according to needs. May be retaken for credit when new topics offered.

**CHE 810. Professional Training. (2 Credits)**

I. Prerequisite: departmental approval. Course demonstrates professional tools and establishes skills including chemical literature searching, independent project planning, methods for disseminating chemical data, chemical safety, as well as professional ethical conduct.

**CHE 811. Chemistry Practicum. (1-3 Credits)**

(1-2) Methodologies of chemistry teaching achieved through guided mentoring. Formal project assigned by faculty mentor is required for each student. Examples include developing novel assignments or lab experiences, designing new education demonstrations, or investigating lecturing/tutoring techniques. May be retaken for a maximum of two hours. 3-6 Lab.

**CHE 822. Advanced Analytical Chemistry. (3 Credits)**

A. Modern practices in chemical analysis. Sampling, sample preparation, spectroscopic and chromatographic methods.

**CHE 830. Applied Biochemistry. (3 Credits)**

A. Structure, analysis and organization of proteins; drug development; organic mechanisms of enzyme action; and the chemistry of the immune system.

**CHE 839. Co-op or Appl. Lrn: Chemistry. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and professional supervisors in an accepted chemistry or chemistry-related internship. Half (.5) to three hours per semester or summer. May be retaken up to a maximum of three hours. 80 hours work for each credit.

**CHE 839A. Co-op or Appl Lrn: Chemistry. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in cooperative experience. Half (.5) to three hours per semester or summer. May be retaken to a maximum of six hours. A minimum of 80 hours work for each credit.

**CHE 839B. Co-op or Appl Lrn: Chemistry. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in cooperative experience. Half (.5) to three hours per semester or summer. May be retaken at discretion of department or college up to a maximum of three hours. A minimum of 80 hours work for each credit.

**CHE 839C. Co-op or Appl Lrn: Chemistry. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in cooperative experience. Half (.5) to three hours per semester or summer. May be retaken at discretion of department or college up to a maximum of three hours. A minimum of 80 hours work for each credit.

**CHE 845. Chem Lab & Demonstr Techniques. (1-4 Credits)**

A. Prerequisite: six semesters of undergraduate work in chemistry or departmental approval. Techniques of constructing and demonstrating apparatus to illustrate principles of chemistry. Primarily for high school and community college science teachers. 3-12 Lab.

**CHE 850. Advanced Inorganic Chemistry. (3 Credits)**

A. Prerequisite: Molecular symmetry in inorganic chemistry, mechanisms of inorganic reactions, and catalysis by coordination and organometallic complexes.

**CHE 860. Advanced Organic Chemistry. (3 Credits)**

A. Prerequisite: Structure and reactivity or organic molecules and an in-depth study of interactions involved in molecular, macromolecular, and supramolecular systems and multiple step synthesis for polyfunctional molecules.

**CHE 880. Graduate Seminar. (1 Credit)**

A. Presentation of significant developments in chemistry to members of the chemistry faculty and department majors. May be retaken to a maximum of three hours. Cannot be taken concurrently with CHE 810. 1 Lec.

**CHE 890. Grad Lit & Project Planning. (1 Credit)**

A. Extensive survey of literature related to a specific research program and planning of that program through consultation with a selected research advisor.

**CHE 895. Chemistry Independent Research. (1-3 Credits)**

A. Objectives and techniques of chemical research. Problems in all fields of chemistry. May be retaken to a maximum of three hours. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**CHE 899. Thesis. (1-6 Credits)**

A. Laboratory research in one of the major areas of chemistry for application to a thesis. May be retaken to a maximum of six hours.

**CHE 899C. Cont' of Thesis Research. (1-9 Credits)**

(1-9) A. Prerequisite: departmental approval. The continuation of research in one of the major areas of chemistry. May be retaken as necessary to complete research. A student must have registered (or be currently registered) for six hours of CHE 899 before registering for CHE 899C. May not be used to satisfy degree program requirements. Credit will not be awarded for both CHE 895C and CHE 899C.

## Department of Computer Science and Information Technology

Dr. Kuang-Nan Chang, Chair

Dr. Mengkun Yang, Graduate Coordinator/Advisor

www.cs.eku.edu (<http://www.cs.eku.edu>)

(859) 622-2398

### Master's

- Computer Science, Master of Science with a Concentration in Artificial Intelligence in Data Science (M.S.) (p. 814)
- Computer Science, Master of Science with a Concentration in Cyber Security and Digital Forensics (M.S.) (p. 814)
- Computer Science, Master of Science with a Concentration in Game Design (M.S.) (p. 815)

### Certificate

- Artificial Intelligence in Data Science, Certificate (p. 813)
- Cyber Security and Digital Forensics, Certificate (p. 816)
- Game Design, Certificate (p. 816)

## Courses

### Computer Science

**CSC 707. Special Topics: Comp Sci: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics vary with offering. May be retaken to a maximum of six hours, with advisor approval, provided the topics are different.

**CSC 720. Multimedia Systems & Forensics. (3 Credits)**

A. Prerequisite: admission to the master's degree program in computer science departmental approval. Integration of multimedia technologies, signal processing and compression of images, audio, and video, multimedia forensics and message hiding.

**CSC 730. Programming and Data Structure. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. The application and implementation of data structures including arrays, linked lists, stacks, queues, heaps, trees and graphs and their related algorithms, using an object-oriented programming language.

**CSC 735. Discrete Structures. (3 Credits)**

A. Prerequisite: MAT 107 or departmental approval. Corequisite: CSC 730. Logic, sets, functions, Boolean algebra, probability and their applications, number theory, recursion, math induction, proofs with application of these topics to computer science. Credit does not apply toward the M.S. degree in Mathematical Sciences.

**CSC 736. Incident Response I. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. This course discusses the details of various aspects of cybersecurity incident response. Topics include pre-incident preparation, incident detection and characterization, data collection and analysis, and remediation.

**CSC 737. Incident Response II. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. This course discusses cybersecurity incident response in the context of various computing platforms. Topics include dead-box analysis, memory analysis, log analysis, and malware analysis in Windows, Linux and MacOS Systems.

**CSC 738. Computer Crime and Forensics. (3 Credits)**

A. Study of computer crime and forensics. Computer criminal evidence collection, analysis, and handling; computer forensics tools; data acquisition; digital evidence control; Windows and Linux systems investigation; email investigation; network forensics; computer forensic reporting.

**CSC 739. MAC Forensics. (3 Credits)**

(3) A. Prerequisite: departmental approval. This course covers the basic knowledge and skills necessary to analyze MAC operating system artifacts for digital evidence recovery. The topics include: MAC OS overview, GPT partitioning system, MAC system acquisition, MAC directory structure and evidence, Property lists, User logon password recovery, Safari and Firefox artifacts, iChat artifacts, Apple mail analysis, and other related topics.

**CSC 741. Software Testing. (3 Credits)**

(3) A. Prerequisite: CSC 730. The purpose of this course is to study software testing process, methods, techniques and tools. Topics include black box testing, white box testing, integration testing, acceptance testing, regression testing, performance testing, stress testing, and testing of object-oriented software.

**CSC 742. Internet Forensics. (3 Credits)**

(A). Prerequisite: CSC 730 or departmental approval. This course covers the basic knowledge and skills necessary to analyze Internet-based applications artifacts for digital evidence recovery. The topics include popular Web browsers, instant messengers, and social media apps.

**CSC 743. Windows Forensics. (3 Credits)**

(3) A. Prerequisite: departmental approval. This course covers the basic knowledge and skills necessary to analyze MS Windows operating system artifacts for digital evidence recovery. The topics include: Windows OS overview, System bitlocker, GPT file system, Windows Security Model, Windows registry, USB devices, Windows event logs, Windows recycle bin, and other related topics.

**CSC 744. Database Admin and Security. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. This course covers database management system concepts, database system architecture, installation and setup, data management, performance monitoring and tuning, backup and recovery, database security models and management, database auditing.

**CSC 745. Theory of Database Systems. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. Models and principles of information systems. Database languages. The logical and physical design as well as the implementation and use of database systems.

**CSC 746. Artificial Intelligence. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. The use of programming languages to model concepts selected from artificial intelligence. The application of heuristics to problem solving. Perception and pattern recognition.

**CSC 747. Network Forensics & Invest. (3 Credits)**

A. Introduction to Windows network forensics. Topics include: Windows network structure; Windows password/authentication mechanisms; Windows ports and services; Live-analysis techniques; Windows registry structure and evidence; Forensic analysis of events logs; Network forensics tools and reporting.

**CSC 748. Personal Elec. Device Forensic. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. Introduction to personal electronic device forensics. Topics include architecture, functionality, operating systems, and implementation of PEDs (cell phones, PDAs, iPod, MP3 music players, GPS devices), recovering evidence from PEDs, and hostile forensic and booby-trapping techniques.

**CSC 749. Computer Forensics Capstone. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. Project course. Students apply learned digital forensic knowledge, techniques, and software and hardware tools to work on a team project on a case for digital evidence collection, handling, analysis, and reporting.

**CSC 750. Graphics Programming. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. 3-D geometry, model transformation, matrices, computer algorithms and protocols, texture mapping, camera control, and collision detection.

**CSC 755. Topics in Multimedia:\_\_\_\_\_. (3 Credits)**

A. Prerequisite: departmental approval. For advanced students in computer science. Subject announced when offered. May be retaken to a maximum of six hours, provided that the topics are different.

**CSC 781. Machine Learning. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Introduction to Machine Learning and its core models and algorithms. Hands-on R programming experiences of using machine learning/deep learning algorithms to analyze real-world data sets.

**CSC 782. Big Data. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Advanced cutting edge and state-of-the-arts knowledge and implementation in big data. Modern deep learning tools for analyzing real-world data sets.

**CSC 783. Data Visualization. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Principles and techniques for data visualization, including visual representation methods and techniques for increasing the understanding of complex data and models. Hands-on visual programming experiences in data collection and demonstration.

**CSC 801. Object-Oriented Programming. (3 Credits)**

(3) I, II. Prerequisite: Admission to the Master's degree program in Computer Science or Departmental approval. The problem solving and algorithm design through object-oriented programming. Topics include core concepts in a high-level programming language (data types, control structures, arrays, and exception handling) as well as object-oriented techniques (classes, objects, methods, inheritance and polymorphism.)

**CSC 812. Microc Architecture & Software. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. Topics suitable for a microcomputer laboratory systems manager including IBM PC architecture and assembly language, local area networks, MS DOS, copyright law, viruses.

**CSC 815. Computer Admin and Security. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Operating system concepts, installation and setup system administration, managing system services, program security, viruses and worms, encryption, information database security, security policies, legal and ethical issues.

**CSC 825. Network Applic and Security. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Local Area Networks, TCP/IP, Internet Protocols, Client/Server applications. Dynamic web pages, Internet security, firewalls, virtual private networks, network attacks, Web and E-commerce security, wireless networking and security.

**CSC 831. Databases and Algorithms. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Models and principles of information systems and database languages. The logical and physical design as well as the implementation and use of database systems.

**CSC 833. Data Structure & Algorithms II. (3 Credits)**

A. Prerequisite: CSC 831. Pattern matching, graph theory algorithms, computational complexity, and cryptography.

**CSC 834. Software Engineering. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Planning, organizing, monitoring, and controlling the implementation of a software project.

**CSC 835. Project Management. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. A survey of current issues in Software Engineering, software testing, metrics, quality assurance, software reuse, and re-engineering.

**CSC 839. Co-op or Appl Lrn: Comp Scienc. (0.5-3 Credits)**

Prerequisite: departmental approval. May be retaken with approval to a maximum of three credit hours. Employment with faculty and field supervision in an area related to the student's academic interests. A Minimum of eighty hours of employment is required for each academic credit.

**CSC 839A. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 839B. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 839C. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 839D. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 839E. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 842. Parallel Algorithms. (3 Credits)**

A. Prerequisite: CSC 831. The design and analysis of parallel algorithms. Application to merging, sorting, combinatorics and numerical algorithms.

**CSC 860. System Prog & Administration. (3 Credits)**

A. Prerequisite: CSC 730. Operating system concepts, concurrent programming, scheduling, security, recovery, methods and languages for operating system management. Layering protocols for computer networks, inter-process communications, TCP/IP Internet protocols, Web programming, and Web server management. Credit does not apply toward the M.S. degree in Mathematical Sciences.

**CSC 880. Seminar in : \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Advanced topics in computer science. May be retaken to a maximum of six hours provided the topics are different.

**CSC 890. Independent Study in \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Independent study on a problem chosen by the student and instructor. Student must have the independent study form and course syllabus approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of nine hours, provided that the topics are different.

**CSC 895. Applied Computing Project in:\_. (3-6 Credits)**

A. Prerequisite: departmental approval. An individually developed project related to the solution of a typical problem in an applied computing environment. The result is to be presented in open forum. Credit does not apply towards the M.S. degree in Mathematical Sciences.

**Informatics**

**INF 707. Special Topics in Informatics\_. (1-3 Credits)**

(1-3) A. Prerequisite: departmental approval. Topics vary with offering. May be retaken to a maximum of six hours with advisor approval, provided the topics are different.

**INF 711. Princ of Game Des and Gam Theo. (3 Credits)**

A. Fundamentals of designing both digital and non-digital games. In depth study of the nature of "Fun," design philosophies, choice, motivation, flow theory, types of decisions, and reward in gameplay systems. Additional topics related to gamification, monetization, and serious games also covered.

**INF 712. Game Production and Publicatio. (3 Credits)**

A. Review of historical and current aspects of the games industry from AAA to indie. Industry operations, Employment, Founding your own studio, Funding, Freelancing, the Role of Influencers (Twitch, Youtube, social media), Platforms, IP protection.

**INF 713. Online Game and App Design. (3 Credits)**

Introduction to the principles of design for online games and applications. Topics include game balance, competition, cooperation, detecting exploits and cheating, security, privacy, social structures, administration, community management, online harassment, and client-server communication. Credit will not be awarded for both INF 713 and INF 513 .

**INF 715. Special Topics in Gaming:\_\_\_\_. (3 Credits)**

A. Topics vary with offering. May be retaken to a maximum of six hours with advisor approval, provided the topics are different. Credit will not be awarded to students who have credit for INF 707: Special Topics in Informatics. Credit will not be awarded for both INF 715 and INF 515.

**INF 718. Principles of Cybersecurity. (3 Credits)**

A. Pre-requisite: departmental approval. This course discusses cybersecurity principles. Topics include security governance, risk assessment, security, people, information, and physical asset management; system development, access, and management; threat and incident management; business continuity; security monitoring and improvement.

**Artificial Intelligence in Data Science, Certificate**

**Program Requirements**

Code	Title	Hours
<b>Certificate Requirements</b>		
CSC 801	Object-Oriented Programming <sup>1</sup>	0-3
CSC 746	Artificial Intelligence	3
CSC 781	Machine Learning	3
CSC 782	Big Data	3
CSC 783	Data Visualization	3
<b>Total Hours</b>		<b>12-15</b>

<sup>1</sup>

Students who have completed equivalent programming course(s) do not need to take this course. These course equivalencies will be evaluated by the department when the students are admitted into the program.

# Computer Science, Master of Science with a Concentration in Artificial Intelligence in Data Science (M.S.)

## General Information

The Department of Computer Science and Information Technology offers the Master of Science degree in Computer Science with concentrations in Artificial Intelligence in Data Science, Cyber Security and Digital Forensics, and Game Design.

## Program Objectives

The objectives of the Master of Science in Computer Science program are:

1. To provide an advanced degree accessible to computing professionals.
2. To improve the technical skills of computing professionals.
3. To improve the business skills of computing professionals, especially those in contracting positions.
4. To teach the analysis and design skills needed to make wise technical choices.
5. To provide in-depth studies in specific areas of computing.
6. To provide capable computing consultants.
7. To provide teachers for community colleges and technical schools.
8. To teach legal, social, and ethical issues related to computer professionals. The legal issues include obligations and liabilities.

## Admission Requirements

To be eligible for a clear admission to graduate standing applicants must have

1. a baccalaureate degree from an accredited institution with minimum grade point average (GPA) of 2.5 overall, or 3.0 on the last 60 semester hours of the baccalaureate program.
2. one of the following:
  - a. satisfactory scores on GRE or GMAT. The expected satisfactory score is 149 or higher on Quantitative portion of the GRE or 37 points or higher on the Quantitative portion of the GMAT.
  - b. A bachelor's, master's or PhD degree in Science, Technology, Engineering or Math with a GPA of at least 3.0.
  - c. an undergraduate precalculus course or equivalent mathematic background.

## Program Requirements

CIP Code: 11.0101

Students must complete 30-33 graduate hours in the program as outlined below, including 15 credit hours from 800-level courses and at least 15 credit hours from CSC courses.

### Curriculum for the Computer Science Program

Code	Title	Hours
<b>Core Courses</b>		
CSC 801	Object-Oriented Programming <sup>1</sup>	0-3
CSC 730	Programming and Data Structure	3
CSC 815	Computer Admin and Security	3

CSC 831	Databases and Algorithms	3
CSC 834	Software Engineering	3

### Concentrations

Students must select one of the following Concentrations: 12

Artificial Intelligence in Data Science

Cyber Security and Digital Forensics

Game Design

### Electives

Choose from six hours of the following: 6

CSC 825 Network Applic and Security

CSC 835 Project Management

CSC 839 Co-op or Appl Lrn: Comp Scienc

CSC 890 Independent Study in \_\_\_\_\_

**Total Hours 30-33**

<sup>1</sup>

Students who have completed equivalent programming course(s) do not need to take this course. These course equivalencies will be evaluated by the department when the students are admitted into the program.

## Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
CSC 746	Artificial Intelligence	3
CSC 781	Machine Learning	3
CSC 782	Big Data	3
CSC 783	Data Visualization	3
<b>Total Hours</b>		<b>12</b>

# Computer Science, Master of Science with a Concentration in Cyber Security and Digital Forensics (M.S.)

## General Information

The Department of Computer Science and Information Technology offers the Master of Science degree in Computer Science with concentrations in Artificial Intelligence in Data Science, Cyber Security and Digital Forensics, and Game Design.

## Program Objectives

The objectives of the Master of Science in Computer Science program are:

1. To provide an advanced degree accessible to computing professionals.
2. To improve the technical skills of computing professionals.
3. To improve the business skills of computing professionals, especially those in contracting positions.
4. To teach the analysis and design skills needed to make wise technical choices.
5. To provide in-depth studies in specific areas of computing.
6. To provide capable computing consultants.
7. To provide teachers for community colleges and technical schools.

- To teach legal, social, and ethical issues related to computer professionals. The legal issues include obligations and liabilities.

CSC 744	Database Admin and Security	3
INF 718	Principles of Cybersecurity	3
<b>Total Hours</b>		<b>12</b>

## Admission Requirements

To be eligible for a clear admission to graduate standing applicants must have

- a baccalaureate degree from an accredited institution with minimum grade point average (GPA) of 2.5 overall, or 3.0 on the last 60 semester hours of the baccalaureate program.
- one of the following:
  - satisfactory scores on GRE or GMAT. The expected satisfactory score is 149 or higher on Quantitative portion of the GRE or 37 points or higher on the Quantitative portion of the GMAT.
  - A bachelor's, master's or PhD degree in Science, Technology, Engineering or Math with a GPA of at least 3.0.
  - an undergraduate precalculus course or equivalent mathematic background.

## Program Requirements

CIP Code: 11.0101

Students must complete 30-33 graduate hours in the program as outlined below, including 15 credit hours from 800-level courses and at least 15 credit hours from CSC courses.

### Curriculum for the Computer Science Program

Code	Title	Hours
<b>Core Courses</b>		
CSC 801	Object-Oriented Programming <sup>1</sup>	0-3
CSC 730	Programming and Data Structure	3
CSC 815	Computer Admin and Security	3
CSC 831	Databases and Algorithms	3
CSC 834	Software Engineering	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12
Artificial Intelligence in Data Science		
Cyber Security and Digital Forensics		
Game Design		
<b>Electives</b>		
Choose from six hours of the following:		6
CSC 825	Network Applic and Security	
CSC 835	Project Management	
CSC 839	Co-op or Appl Lrn: Comp Scienc	
CSC 890	Independent Study in _____	
<b>Total Hours</b>		<b>30-33</b>

1

Students who have completed equivalent programming course(s) do not need to take this course. These course equivalencies will be evaluated by the department when the students are admitted into the program.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
CSC 736	Incident Response I	3
CSC 737	Incident Response II	3

## Computer Science, Master of Science with a Concentration in Game Design (M.S.)

### General Information

The Department of Computer Science and Information Technology offers the Master of Science degree in Computer Science with concentrations in Artificial Intelligence in Data Science, Cyber Security and Digital Forensics, and Game Design.

### Program Objectives

The objectives of the Master of Science in Computer Science program are:

- To provide an advanced degree accessible to computing professionals.
- To improve the technical skills of computing professionals.
- To improve the business skills of computing professionals, especially those in contracting positions.
- To teach the analysis and design skills needed to make wise technical choices.
- To provide in-depth studies in specific areas of computing.
- To provide capable computing consultants.
- To provide teachers for community colleges and technical schools.
- To teach legal, social, and ethical issues related to computer professionals. The legal issues include obligations and liabilities.

## Admission Requirements

To be eligible for a clear admission to graduate standing applicants must have

- a baccalaureate degree from an accredited institution with minimum grade point average (GPA) of 2.5 overall, or 3.0 on the last 60 semester hours of the baccalaureate program.
- one of the following:
  - satisfactory scores on GRE or GMAT. The expected satisfactory score is 149 or higher on Quantitative portion of the GRE or 37 points or higher on the Quantitative portion of the GMAT.
  - A bachelor's, master's or PhD degree in Science, Technology, Engineering or Math with a GPA of at least 3.0.
  - an undergraduate precalculus course or equivalent mathematics background.

## Program Requirements

CIP Code: 11.0101

Students must complete 30-33 graduate hours in the program as outlined below, including 15 credit hours from 800-level courses and at least 15 credit hours from CSC courses.

## Curriculum for the Computer Science Program

Code	Title	Hours
<b>Core Courses</b>		
CSC 801	Object-Oriented Programming <sup>1</sup>	0-3
CSC 730	Programming and Data Structure	3
CSC 815	Computer Admin and Security	3
CSC 831	Databases and Algorithms	3
CSC 834	Software Engineering	3
<b>Concentrations</b>		
Students must select one of the following Concentrations:		12
Artificial Intelligence in Data Science		
Cyber Security and Digital Forensics		
Game Design		
<b>Electives</b>		
Choose from six hours of the following:		6
CSC 825	Network Applic and Security	
CSC 835	Project Management	
CSC 839	Co-op or Appl Lrn: Comp Scienc	
CSC 890	Independent Study in _____	
<b>Total Hours</b>		<b>30-33</b>

1

Students who have completed equivalent programming course(s) do not need to take this course. These course equivalencies will be evaluated by the department when the students are admitted into the program.

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
INF 711	Princ of Game Des and Gam Theo	3
INF 712	Game Production and Publicatio	3
INF 713	Online Game and App Design	3
INF 715	Special Topics in Gaming:_____	3
<b>Total Hours</b>		<b>12</b>

## Cyber Security and Digital Forensics, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
CSC 801	Object-Oriented Programming <sup>1</sup>	0-3
CSC 736	Incident Response I	3
CSC 737	Incident Response II	3
CSC 744	Database Admin and Security	3
INF 718	Principles of Cybersecurity	3
<b>Total Hours</b>		<b>12-15</b>

1

Students who have completed equivalent programming course(s) do not need to take this course. These course equivalencies will be evaluated by the department when the students are admitted into the program.

## Game Design, Certificate

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
INF 711	Princ of Game Des and Gam Theo	3
INF 712	Game Production and Publicatio	3
INF 713	Online Game and App Design	3
INF 715	Special Topics in Gaming:_____	3
<b>Total Hours</b>		<b>12</b>

## Department of Mathematics and Statistics

Dr. Shane Redmond, Chair

Dr. Lisa Kay, Graduate Coordinator

[www.math.eku.edu](http://www.math.eku.edu) (<http://www.math.eku.edu>)

(859) 622-5942

The Department of Mathematics and Statistics offers the Master of Arts degree in Applied Mathematics. The student may elect courses from mathematics or statistics to fulfill the degree requirements.

### Master's

- Applied Mathematics, Master of Arts with a Concentration in Applied Mathematics and Statistics (M.A.) (p. 819)
- Applied Mathematics, Master of Arts with a Concentration in Data Science (M.A.) (p. 820)
- Applied Mathematics, Master of Arts with a Concentration in Secondary Mathematics (M.A.) (p. 821)

### Courses

#### Mathematics

##### MAT 701. Applicat of Math for P-9. (3 Credits)

A. Topics in the application of mathematical models appropriate for teachers of grades P-9.

##### MAT 702. Geo with Tech for P-9 Teachers. (3 Credits)

A. Topics in geometry appropriate for teachers of grades P-9.

##### MAT 705. Foundations of Math. (3 Credits)

A. The nature of mathematical thought; logical systems, axiomatic concepts and methods; consideration of the work of Hilbert, Peano, Whitehead, Russell, and others. It is strongly recommended that students have completed an abstract algebra course.

##### MAT 706. Number Theory. (3 Credits)

A. Fundamental properties of integers, linear Diophantine equations, linear and quadratic congruences, famous problems of number theory. It is strongly recommended that students have completed a course requiring proof-writing skills.

##### MAT 707. Seminar in Mathematics:\_\_\_\_\_. (1-3 Credits)

A. Topics vary with offering. May be retaken with advisor approval, provided the topics are different. Credit towards degree requirements will depend on the course content.

**MAT 720. Mathematical Statistics I. (3 Credits)**

I. Cross-listed as STA 720. Descriptive statistics, discrete and continuous probability distributions for one and two variables, functions of random variables, sampling distributions, expectations and generating functions. Credit will not be awarded to students who have credit for STA 720. It is strongly recommended that students have completed eight hours of calculus.

**MAT 725. Vector Analysis with Applicati. (3 Credits)**

A. Algebra and geometry of vectors; vector functions of a single variable; line, surface, and volume integrals; divergence Theorem, Stokes's Theorem, Green's Theorem; generalized orthogonal coordinates; Fourier Series; solutions to boundary value problems. It is strongly recommended that students have completed twelve hours of calculus.

**MAT 727. Cryptology. (3 Credits)**

(3) A. Classical cryptosystems, basic number theory, DES, Advanced Encryption Standard, RSA, discrete logs, digital signatures, elliptic curve cryptosystem, lattice methods. It is strongly recommended that students have completed a course in proof writing.

**MAT 735. Principles of Geometry. (3 Credits)**

A. Two- and three-dimensional analytical Euclidean geometry, alternative geometries, hyperbolic, Riemannian, taxicab, and affine. It is strongly recommended that students have completed a geometry course and a linear algebra course.

**MAT 740. Applic of Partial Diff Equatio. (3 Credits)**

A. Wave, heat/diffusion and potential/Laplace equations, separation of variables, orthogonal sets of functions. Fourier series, boundary value problems, Fourier integrals, maximum principles, the Cauchy problem. It is strongly recommended that students have completed a course in differential equations.

**MAT 750. Appl of Complex Analysis. (3 Credits)**

A. Continuity, differentiation, integration, series, residues, and applications to the evaluation of real integrals. Applications of conformal mappings to boundary value problems in heat, electrostatic potential, and fluid flow. Emphasis throughout on computational techniques and applications. Credit will not be awarded to students who have credit for MAT 850. It is strongly recommended that students have completed twelve hours of calculus or eight hours of calculus plus a differential equations course.

**MAT 755. Graph Theory. (3 Credits)**

A. Introduction to the theory and applications of graph theory. Topics will include trees, planarity, connectivity, flows, matching and coloring. It is strongly recommended that students have completed a course in abstract algebra or discrete structures.

**MAT 760. Point Set Topology. (3 Credits)**

A. An introduction to topology with emphasis on Euclidean and other metric spaces. Mappings, connectivity, compactness, formation of new spaces, relationship to analysis. It is strongly recommended that students have completed a course requiring proof-writing skills.

**MAT 765. Math of Structural Bioinformat. (3 Credits)**

(3) A. Mathematical and computational approaches to analyze and understand macromolecular structure data. Methods for protein structure determination, refinement, evaluation, comparison, and visualization. Protein surface representation and shape comparison. Structure databases. It is strongly recommended that students have completed courses in linear algebra and multivariable calculus and have experience in computer programming.

**MAT 777. Intro to Alg Coding Theory. (3 Credits)**

(3) A. Prerequisites: Senior standing; MAT 301, or both MAT 214 and departmental approval. Introduction to basic concepts of coding theory, linear codes, perfect codes, cyclic codes, BCH codes, and Reed Solomon codes. Additional topics as time permits. It is strongly recommended that students have completed a course in linear algebra and a course in proof writing.

**MAT 803. Number/Geometric Con/P-5 Tchrs. (3 Credits)**

A. Prerequisite: admission to the MAT program or departmental approval. Numeric and geometric concepts; problem solving with numbers, geometry, and data; reasoning; and connections. Credit does not apply toward the M.S. degree offered within this department. Credit will not be awarded to students who have credit for MAT 202.

**MAT 806. Advanced Number Theory. (3 Credits)**

A. Basic concepts from analytic and algebraic number theory including the Prime Number Theorem, Dirichlet's Theorem, the Riemann Hypothesis, algebraic integers, ideals and factorization in algebraic number fields. Additional topics as time permits. It is strongly recommended that students have completed courses in number theory, abstract algebra, and real analysis or differential equations.

**MAT 809. Modern Algebra. (3 Credits)**

A. Study of groups, including the fundamental isomorphism theorems. Sylow Theorems, and finitely generated abelian groups. It is strongly recommended that students have completed an abstract algebra course.

**MAT 810. Modern Algebra. (3 Credits)**

A. Study of rings, integral domains, unique factorization domains, modules, vector spaces, fields and field extensions, including Galois theory. It is strongly recommended that students have completed an abstract algebra course.

**MAT 815. Real Analysis. (3 Credits)**

A. Further study of the concepts introduced in MAT 315. The convergence theorems, Lebesgue measure and measurable functions, the Lebesgue integral, Fourier series, allied topics. It is strongly recommended that students have completed a real analysis course.

**MAT 839. Co-op or Appl Lrn: Mathematics. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**MAT 850. Complex Analysis. (3 Credits)**

A. The topology of the extended complex plane. The theory of analytic and meromorphic functions including integration, Taylor and Laurent series, Cauchy Integral and Residue Theorems, Argument Principles, Rouché's Theorem, Maximum Modulus Theorems, conformal mappings. It is strongly recommended that students have completed a real analysis course.

**MAT 853. Ordinary Differential Equation. (3 Credits)**

(3) A. Uniqueness and existence of solutions of initial value problems, maximal intervals of existence, continuous dependence, disconjugacy of boundary value problems, Cauchy functions, Green's functions, and fixed point theory. Additional topics as time permits. It is strongly recommended that students have completed a course in analysis.

**MAT 856. Applied Mathematics. (3 Credits)**

A. Dynamical systems, linear and nonlinear systems theory, transform methods, integral equations, control theory and optimization, calculus of variations, eigenvalue problems, stability theory, bifurcation. It is strongly recommended that students have completed a course in differential equations.

**MAT 865. Applied Linear Algebra. (3 Credits)**

(3) A. Vector spaces, LU decomposition, singular value decomposition, orthogonality, and related theory, with applications to least squares, Markov chains, combinatorics, differential equations, and other topics. It is strongly recommended that students have completed a course in linear algebra.

**MAT 866. Combinatorial Optimization. (3 Credits)**

(3) A. Combinatorial optimization, linear programming, flow and matching theory, traveling salesman problem, and related topics. It is strongly recommended that students have completed a linear algebra course.

**MAT 871. Numerical Analysis. (3 Credits)**

A. Computer arithmetic. Analysis of errors and stability of well-posed problems. LaGrange, Hermite and spline interpolation. Newton-Cotes, Romberg, and Gaussian quadrature. Consistency, convergence, and stability of numerical integration methods for ordinary initial value problems. Finite difference and shooting methods for two-point boundary value problems. It is strongly recommended that students have completed a real analysis course and have experience with a programming language.

**MAT 880. Seminar in: \_\_\_\_\_ (1-3 Credits)**

A. Advanced topics in Mathematics. May be retaken to a maximum of six hours, provided the topics are different. Credit towards degree requirements will depend on the course content.

**MAT 890. Independent Study in: \_\_\_\_\_ (1-3 Credits)**

A. Prerequisites: An 800-level course and departmental approval. Independent study on a problem chosen by the student and instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of nine hours, provided the topics are different.

**MAT 898. Applied Mathematics Capstone. (3 Credits)**

(3) A. Prerequisite: completion of at least 15 hours toward the M.A. in Applied Mathematics degree. Preparation for mathematical and statistical study. Guided one-on-one study of a mathematical or statistical concept. Use of mathematical typesetting software, presentation software, and research databases.

**MAT 899. Thesis in \_\_\_\_\_ (1-6 Credits)**

A.

## Math Education

**MAE 701. Applicat of Math for P-9. (3 Credits)**

A. Topics in the application of mathematical models appropriate for teachers of grades P-9.

**MAE 702. Geo with Tech for P-9 Teachers. (3 Credits)**

A. Topics in geometry appropriate for teachers of grades P-9.

**MAE 704. Tech for Teaching & Research. (3 Credits)**

(3) A. Technology for mathematical and statistical teaching and research. Exploration of mathematical and statistical concepts through the use of computer algebra systems, statistical software, geometry software, programming languages, and related technologies.

**MAE 707. Seminar in Math Edu: \_\_\_\_\_ (1-3 Credits)**

(1-3) A. Topics vary with offering. May be retaken to a maximum number of nine hours, with advisor approval, provided the topics are different. Credit towards degree requirements will depend on the course content.

**MAE 750. Teach Math in Sec School. (3 Credits)**

I. Cross-listed as ESE 750. Developmentally appropriate materials and methods for teaching mathematics and computer science in secondary schools. Minimum of 96 field/clinical hours. Credit will not be awarded to students who have credit for ESE 750.

**MAE 843. Mathematics Intervention Strat. (3 Credits)**

A. Cross-listed as EME 843. In-depth analysis of teaching resources, teaching strategies, and appropriate mathematics curriculum content for intervention. Credit will not be awarded to students who have credit for EME 843.

**MAE 850. Trends in Teaching Sec Math. (3 Credits)**

A. Cross-listed as ESE 850. Examination of curricular trends, modern programs, appropriate strategies, and innovative materials in secondary mathematics. Credit will not be awarded to students who have credit for ESE 850.

**MAE 870. HLM in Educational Research. (3 Credits)**

Hierarchical data structures, fixed effects, random effects, hierarchical linear models, null model, partition of variance, intraclass correlation, random intercept models, random coefficient models, growth models, repeated measures, educational research, and use of statistical software. It is strongly recommended that students have completed a course in applied statistics.

**MAE 872. Mathematics in the Curriculum. (3 Credits)**

A. Exploration of trends, concepts, and issues involved in modern mathematics programs. Research findings are examined and multisensory materials are presented.

**MAE 880. Seminar in: \_\_\_\_\_ (1-3 Credits)**

Advanced topics in mathematics education. Topics vary with offering. Credit towards degree requirements will depend on the course content. May be retaken to a maximum of nine hours, provided the topic is different.

**MAE 890. Independent Study in: \_\_\_\_\_ (1-3 Credits)**

Prerequisites: An 800-Level course and departmental approval. Student must have the independent study proposal approved by faculty supervisor, department graduate committee, and department chair prior to enrollment. Independent study on a topic chosen by the student and instructor. May be retaken to a maximum of six hours, provided the topics are different.

## Statistics

**STA 707. Seminar in Statistics: \_\_\_\_\_ (1-3 Credits)**

A. Topics vary with offering. May be retaken with advisor approval, provided the topics are different. Credit towards degree requirements will depend on the course content.

**STA 720. Mathematical Statistics I. (3 Credits)**

A. Cross-listed as MAT 720. Descriptive statistics, discrete and continuous probability distributions for one and two variables, functions of random variables, sampling distributions, expectations and generating functions. Credit will not be awarded to students who have credit for MAT 720. It is strongly recommended that students have completed eight hours of calculus.

**STA 721. Mathematical Statistics II. (3 Credits)**

heA. Prerequisite: MAT 520, 720, STA 520 or STA 720. A continuation of STA 720. Estimation theory, hypothesis testing, linear regression, analysis of variance, and allied topics. It is strongly recommended that students have completed a course in linear algebra.

**STA 770. Quality Control & Reliability. (3 Credits)**

(3) A. Analysis of six sigma techniques, statistical analysis of process capability, statistical process control using control charts, quality improvement, acceptance sampling, and an introduction to product reliability. It is strongly recommended that students have completed a course in calculus and STA 700, 721, or two courses in applied statistics.

**STA 775. Statistics Methods Using SAS. (3 Credits)**

(3) A. Data set manipulation, application of statistical techniques in SAS, and statistical programming. It is strongly recommended that students have completed a course in applied statistics.

**STA 780. R and Introductory Data Mining. (3 Credits)**

A. Cross-listed as DSC 780. Data set manipulation, application, of statistical techniques in R, statistical programming, and data mining skills. It is strongly recommended that students have completed a course in applied statistics and an introductory course in computer programming. Credit will not be awarded to students who have credit for DSC 780.

**STA 785. Experimental Design. (3 Credits)**

A. Completely randomized designs, factorial experiments, multiple comparisons, model diagnosis, randomized blocks, Latin squares, fixed and random models, nested-factorial experiments, 2<sup>f</sup> factorial experiments, and split-plot designs. Emphasis on applications and use of statistical software. It is strongly recommended that students have completed a course in applied statistics.

**STA 800. Applied Statistical Inference. (3 Credits)**

A. Data collection, descriptive statistics, basic probability, confidence intervals, hypothesis testing, linear regression, chi-square tests, analysis of variance, and use of statistical software. Credit does not apply toward the Concentration in Applied Mathematics and Statistics or the Concentration in Data Science and Statistics under the M.A. in Applied Mathematics. Credit will not be awarded for STA 700 and STA 800.

**STA 835. Linear Models. (3 Credits)**

(3) A. Prerequisite: Use of matrix algebra to develop theory of linear models. General linear models, estimability, multivariate normal distribution, estimation, testing, prediction, restricted models, models with general covariance structure, reparameterization, multi-part model, and random and mixed models. It is strongly recommended that students have completed a course in applied statistics and a course in linear algebra.

**STA 839. Co-op or Appl. Lrn: Statistics. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**STA 840. App Multi Statistical Analysis. (3 Credits)**

(3) A. Prerequisite: Analysis of variance and simple linear regression review, multiple linear regression, multivariate analysis of variance, multivariate analysis of covariance, repeated measures ANOVA, discriminant analysis, factor analysis, principal component analysis, and use of statistical software. It is strongly recommended that students have completed courses in applied statistics.

**STA 880. Seminar in: \_\_\_\_\_ (1-3 Credits)**

A. Advanced topics in Statistics. May be retaken to a maximum of six hours provided the topics are different. Credit towards degree requirements will depend on the course content.

**STA 890. Independent Study in \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Independent study on a problem chosen by the student and instructor. Student must have the independent study proposal form and course syllabus approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of nine hours, provided the topics are different.

# Applied Mathematics, Master of Arts with a Concentration in Applied Mathematics and Statistics (M.A.)

## Program Objectives

The objectives of the graduate mathematics program are the following:

1. To provide a graduate program in mathematics and statistics leading to a degree which prepares students for careers in government or industry.
2. To provide a graduate program in mathematics designed for certified high school teachers who wish to broaden their knowledge of the mathematics related to the field in which they teach.
3. To provide the necessary mathematical content for certified teachers to teach dual-credit courses at the secondary level or courses at a community college, two-year college, or four-year college.
4. To include in this program courses in the areas of mathematics, statistics, statistical analysis, mathematics applications, and courses demonstrating the relationships among these fields.
5. To guide students in tailoring a program of study ideally suited to their background, aptitude, and career interests.

## Admission Requirements

Clear admission to graduate standing will be granted to those students who have the following:

1. Scores of 144 or higher on the Verbal Reasoning portion and 147 or higher on the Quantitative Reasoning portion of the Graduate Record Exam. Applicants with cumulative undergraduate GPA's of 3.0 or higher are exempt from the GRE requirement.
2. An undergraduate grade point average of 2.5 or higher.
3. Prerequisites for the core courses. (For example, six hours of calculus and courses in linear algebra and statistics would be sufficient.) Applicants who do not have this preparation may be granted admission without the prerequisites but are required to take the courses needed to strengthen their backgrounds. Students seeking a change in Kentucky Teacher rank must have initial certification in secondary mathematics.

## Program Requirements

CIP Code: 27.0503

### Applied Mathematics Program

Each student must apply 15 or more hours from 800-level courses toward the M.A. degree.

Code	Title	Hours
<b>Core Courses</b>		
MAT 720 or STA 720	Mathematical Statistics I	3
MAT 865	Applied Linear Algebra	3
MAT 866	Combinatorial Optimization	3
MAE 704 or STA 775	Tech for Teaching & Research Statistics Methods Using SAS	3

No course may be counted under both core requirements and concentration requirements.

**Concentrations**

Students must select one of the following Concentrations: 15

Secondary Mathematics

Applied Mathematics and Statistics

Data Science

**Exit Requirements**

MAT 898 Applied Mathematics Capstone 3

**Total Hours** 30**Concentration**

Code	Title	Hours
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**Concentration Courses**

Choose from nine hours of the following: 9

DSC 780 R and Introductory Data Mining

MAT 706 Number Theory

MAT 727 Cryptology

MAT 740 Applic of Partial Diff Equatio

MAT 750 Appl of Complex Analysis

MAT 755 Graph Theory

MAT 765 Math of Structural Bioinformat

MAT 777 Intro to Alg Coding Theory

MAT 853 Ordinary Differential Equation

MAT 856 Applied Mathematics

MAT 871 Numerical Analysis

MAT 880 Seminar in:\_\_\_\_\_

STA 721 Mathematical Statistics II

STA 770 Quality Control &amp; Reliability

STA 775 Statistics Methods Using SAS

STA 780 R and Introductory Data Mining

STA 785 Experimental Design

STA 835 Linear Models

STA 840 App Multi Statistical Analysis

STA 880 Seminar in:\_\_\_\_\_

**Electives**

Choose from six hours of advisor-approved electives selected from 700- or 800-level courses with DSC, MAE, MAT, STA, or CSC prefixes 6

**Total Hours** 15**Exit Requirements****Capstone**

Students are required to complete 3 hours of MAT 898 Applied Mathematics Capstone.

**Applied Mathematics, Master of Arts with a Concentration in Data Science (M.A.)****Program Objectives**

The objectives of the graduate mathematics program are the following:

1. To provide a graduate program in mathematics and statistics leading to a degree which prepares students for careers in government or industry.
2. To provide a graduate program in mathematics designed for certified high school teachers who wish to broaden their knowledge of the mathematics related to the field in which they teach.
3. To provide the necessary mathematical content for certified teachers to teach dual-credit courses at the secondary level or courses at a community college, two-year college, or four-year college.
4. To include in this program courses in the areas of mathematics, statistics, statistical analysis, mathematics applications, and courses demonstrating the relationships among these fields.
5. To guide students in tailoring a program of study ideally suited to their background, aptitude, and career interests.

**Admission Requirements**

Clear admission to graduate standing will be granted to those students who have the following:

1. Scores of 144 or higher on the Verbal Reasoning portion and 147 or higher on the Quantitative Reasoning portion of the Graduate Record Exam. Applicants with cumulative undergraduate GPA's of 3.0 or higher are exempt from the GRE requirement.
2. An undergraduate grade point average of 2.5 or higher.
3. Prerequisites for the core courses. (For example, six hours of calculus and courses in linear algebra and statistics would be sufficient.) Applicants who do not have this preparation may be granted admission without the prerequisites but are required to take the courses needed to strengthen their backgrounds. Students seeking a change in Kentucky Teacher rank must have initial certification in secondary mathematics.

**Program Requirements**

CIP Code: 27.0503

**Applied Mathematics Program**

Each student must apply 15 or more hours from 800-level courses toward the M.A. degree.

Code	Title	Hours
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**Core Courses**

MAT 720 Mathematical Statistics I 3

or STA 720 Mathematical Statistics I

MAT 865 Applied Linear Algebra 3

MAT 866 Combinatorial Optimization 3

MAE 704 Tech for Teaching &amp; Research 3

or STA 775 Statistics Methods Using SAS

No course may be counted under both core requirements and concentration requirements.

**Concentrations**

Students must select one of the following Concentrations: 15

Secondary Mathematics

Applied Mathematics and Statistics

Data Science

**Exit Requirements**

MAT 898	Applied Mathematics Capstone	3
<b>Total Hours</b>		<b>30</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
DSC 780	R and Introductory Data Mining	3
or STA 780	R and Introductory Data Mining	
Choose six hours from the following:		
CSC 746	Artificial Intelligence	
CSC 781	Machine Learning	
CSC 782	Big Data	
CSC 783	Data Visualization	
<b>Electives</b>		
Choose from six hours of advisor-approved electives selected from 700- or 800-level courses with DSC, MAE, MAT, STA, or CSC prefixes		6
<b>Capstone</b>		
MAT 898	Applied Mathematics Capstone	3
<b>Total Hours</b>		<b>12</b>

### Exit Requirements

#### Capstone

Students are required to complete 3 hours of MAT 898 Applied Mathematics Capstone.

## Applied Mathematics, Master of Arts with a Concentration in Secondary Mathematics (M.A.)

### Program Objectives

The objectives of the graduate mathematics program are the following:

1. To provide a graduate program in mathematics and statistics leading to a degree which prepares students for careers in government or industry.
2. To provide a graduate program in mathematics designed for certified high school teachers who wish to broaden their knowledge of the mathematics related to the field in which they teach.
3. To provide the necessary mathematical content for certified teachers to teach dual-credit courses at the secondary level or courses at a community college, two-year college, or four-year college.
4. To include in this program courses in the areas of mathematics, statistics, statistical analysis, mathematics applications, and courses demonstrating the relationships among these fields.
5. To guide students in tailoring a program of study ideally suited to their background, aptitude, and career interests.

### Admission Requirements

Clear admission to graduate standing will be granted to those students who have the following:

1. Scores of 144 or higher on the Verbal Reasoning portion and 147 or higher on the Quantitative Reasoning portion of the Graduate Record Exam. Applicants with cumulative undergraduate GPA's of 3.0 or higher are exempt from the GRE requirement.

2. An undergraduate grade point average of 2.5 or higher.
3. Prerequisites for the core courses. (For example, six hours of calculus and courses in linear algebra and statistics would be sufficient.) Applicants who do not have this preparation may be granted admission without the prerequisites but are required to take the courses needed to strengthen their backgrounds. Students seeking a change in Kentucky Teacher rank must have initial certification in secondary mathematics.

## Program Requirements

CIP Code: 27.0503

### Applied Mathematics Program

Each student must apply 15 or more hours from 800-level courses toward the M.A. degree.

Code	Title	Hours
<b>Core Courses</b>		
MAT 720	Mathematical Statistics I	3
or STA 720	Mathematical Statistics I	
MAT 865	Applied Linear Algebra	3
MAT 866	Combinatorial Optimization	3
MAE 704	Tech for Teaching & Research	3
or STA 775	Statistics Methods Using SAS	
No course may be counted under both core requirements and concentration requirements.		
<b>Concentrations</b>		
Students must select one of the following Concentrations:		15
Secondary Mathematics		
Applied Mathematics and Statistics		
Data Science		
<b>Exit Requirements</b>		
MAT 898	Applied Mathematics Capstone	3
<b>Total Hours</b>		<b>30</b>

### Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
MAT 735	Principles of Geometry	3
Choose from six hours of the following:		
MAE 750	Teach Math in Sec School	
MAE 843	Mathematics Intervention Strat	
MAE 850	Trends in Teaching Sec Math	
MAE 870	HLM in Educational Research	
MAE 872	Mathematics in the Curriculum	
STA 800	Applied Statistical Inference	
<b>Electives</b>		
Choose from six hours of advisor-approved electives selected from 700- or 800-level courses with DSC, MAE, MAT, STA, or CSC prefixes		6
<b>Total Hours</b>		<b>15</b>

## Exit Requirements

### Capstone

Students are required to complete 3 hours of MAT 898 Applied Mathematics Capstone.

## Department of Physics, Geosciences, and Astronomy

Dr. Alice Jones, Interim Chair

[www.physics.eku.edu](http://www.physics.eku.edu) (<http://www.physics.eku.edu>)

(859) 622-1521

The Department of Physics, Geosciences, and Astronomy cooperates with the other STEM departments and the College of Education and Applied Human Services in offering the Master of Arts in Education in Secondary Education with a concentration in Physical Science. The program is primarily for non-specialized science teachers and is described in the College of Education and Applied Human Sciences section of this Catalog.

## Natural Areas

### Certificate

- Environmental Education, Certificate (p. 822)

## Environmental Education, Certificate

This Environmental Education Certificate does not lead to teacher certification or to a professional teaching license, although some of these courses can be used towards licensure.

### Program Requirements

Code	Title	Hours
<b>Certificate Requirements</b>		
BIO 790	Ecology for Teachers	3
EMS 761	Environmental Education Essen	3
<b>Electives</b>		
Choose from six hours of the following:		6
BIO 700	Environmental Issues	
CHE 701	Chemtopics: _____	
EMS 763	Teaching Environmental Educati	
ESE 761	Teach Sci in Secondary School <sup>1</sup>	
REC 790	Special Topics: _____	
UNP 700	Study Abroad: _____	
BIO 839	Co-op or Appl. Lrn: Biology	
<b>Total Hours</b>		<b>12</b>

1

Course has a prerequisite of admission to professional education.

## Course Numbering

Courses are numbered according to the following plan:

Number	Description
700-799	primarily for masters students
800-899	for masters and doctoral students
900-999	exclusively for doctoral programs

## Accreditations and Memberships

- Accreditations (p. 822)
- Memberships (p. 823)

## Accreditations

### Accreditations

Eastern Kentucky University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, masters, educational specialist, and doctorate degrees. Degree-granting institutions also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Eastern Kentucky University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website ([www.sacscoc.org](http://www.sacscoc.org)) (<https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.sacscoc.org%2F&data=05%7C01%7CShannon.Tipton%40eku.edu%7C5b4c19b0db8c4055dae208daf32e8cc1%7Ce23043271af04dee83fbc1b2fd6db0%7C0%7C0%7C638089678497515429%7CUnknown%7CTWFpbGZsb3d8eyJWljoIMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhaWwiLCJ%7C3000%7C%7C&sdata=EE0tqD%2BWJJ9rOKG7NJvd%2B58whs6dioBYboY%2BwI0t1Jg%3D&reserved=0>)).

- AACSB International - The Association to Advance Collegiate Schools of Business
- Accreditation Board for Engineering and Technology (ABET)
  - (Fire Protection and Safety Engineering Technology)
- Accreditation Commission for Education in Nursing (ACEN)
  - (Associate Degree Nursing)
- Accreditation Council for Education in Nutrition and Dietetics (ACEND)
  - (Didactic Program in Dietetics, B.S Food & Nutrition, Dietetics concentration)
- Accreditation Council for Occupational Therapy Education (ACOTE)
  - (Baccalaureate Degree and Masters Degree, and Doctorate Degree)
- Accredited Schools and Programs of Public Health
- American Academy of Forensic Science (B.S. in Forensic Science)
- American Association of Family & Consumer Sciences (AAFCS)
- American Council for Construction Education (ACCE)
- American Nurses Credentialing Center (ANCC)
- American Speech-Language-Hearing Association, Council on Academic Accreditation (Graduate Degree Program)
- Association of Technology, Management, and Applied Engineering (ATMAE)
- Association for Athletic Training Education (AATE) - Founding Member
- Commission on Accreditation of Athletic Training Education (CAATE)
  - (MS in Athletic Training)

- Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions
  - (Emergency Medical Technician/Paramedic)
  - (Associate Degree and Baccalaureate Programs)
- Commission on Collegiate Interpreter Education
- Commission on Collegiate Nursing Education
  - (Baccalaureate, Masters and DNP Degree Programs)
- Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)
- Computing Accreditation Commission of ABET
  - (Concentration in General Computer Science in Computer Science Baccalaureate Degree Program)
- Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- Council for the Accreditation of Educator Preparation (CAEP)
- Council on Education for Public Health (CEPH)
  - (Baccalaureate and Master of Public Health)
- Council on Accreditation of Parks, Recreation, Tourism and Related Professions (COAPRT)
- Council on Education of the Deaf
  - (Baccalaureate Degree Program)
- Council on Social Work Education
  - (Baccalaureate Degree Program BSW)
- International Council for Exceptional Children
- International Fire Service Accreditation Congress IFSAC
- International Society of Fire Services Instructors Emergency
- Kentucky Vocational Agriculture Teachers Association
- Management Accreditation and Certification System
  - (Professional Qualifications Council for Industry)
  - (Baccalaureate Degree Program)
- National Accrediting Agency for Clinical Laboratory Sciences
  - (Baccalaureate Degree Programs)
- National Association of College Teachers of Agriculture
- National Association for the Education of Young Children (NAEYC)
- National Association of Schools of Music
- National Association of School Psychologists
- National Association of Schools of Public Affairs and Administration
  - (Master of Public Administration Degree Program)
- National Environmental Health Science and Protection Accreditation Council
  - (Baccalaureate and Master's Degree Program)
- American Association for Health Education
- National Association for Sport and Physical Education
- National Recreation and Park Association Council on Accreditation of Parks, Recreation and Tourism
  - (Baccalaureate Degree Program)
- Professional Golfers Association of America (PGA) for the Bachelor of Business Administration in Marketing, PGA Golf Management Concentration.
- American Chemical Society
  - (Bachelor of Science)
- American Drive and Traffic Safety Education Association (ADTSEA/IUP National Teacher Credentialing Program)
- Association of Graduate Faculties in Public Health
- Federal Aviation Administration (FAA)
  - Aviation (Professional Flight)
  - (Baccalaureate Degree Program)
- Kentucky Board of Nursing
  - Nursing (Associate and Baccalaureate Degree Programs)
- Kentucky Cabinet for Health and Family Services
  - Public Child Welfare Certification Program (PCWCP)
- National Association for Sport and Physical Education
  - Physical Education, P-12 Teaching Option (Baccalaureate Degree Program)
- National Council on Family Relations (NCFR)
  - Child and Family Studies and Family and Consumer Sciences Education
- Public Relations Society of America
  - (Baccalaureate Degree Program; Public Relations Major)

## Memberships

### Memberships

- AACSB International - The Association to Advance Collegiate Schools of Business
- Academy of Criminal Justice Sciences
- Academy of Nutrition and Dietetics
- Aircraft Owners and Pilots Association
- American Association of Airport Executives (AAAE)
- American Association of Colleges of Nursing
- American Association of Colleges for Teacher Education
- American Association of Collegiate Registrars and Admission Officers
- American Association of Educational Service Agencies
- American Association of Family and Consumer Sciences
- American Association of State Colleges of Agriculture and Renewable Resources
- American Association of State Colleges and Universities
- American Association of University Women
- American Association for Paralegal Education
- American College Health Association
- American Conference of Academic Deans
- American Correctional Association
- American Council for Construction Education (ACCE)
- American Council on Education
- American Council on the Teaching of Foreign Languages
- American Driver and Traffic Safety Education Association
- American Historical Association
- American Hospital Association
- American Health Information Management Association (AHIMA)
- American Mathematical Society
- American Occupational Therapy Association
- American Political Science Association
- American Society of Allied Health Professions

#### The following programs are approved by these agencies:

- Accreditation Council for Occupational Therapy Education (ACOTE)
  - Occupational Therapy (Master of Science Degree Program)
- American Bar Association
  - Paralegal (Associate and Baccalaureate, Minor, and Certificate Degree Programs)

- American Society of Human Genetics
- American Society for Training and Development
- American Statistical Association
- American Technical Education Association
- Associated Schools of Construction (ASC)
- Association for Athletic Training Education (AATE) - Founding member
- Association for Career and Technical Education (ACTE)
- Association for Computing Machinery
- Association for Education in Journalism and Mass Communication
- Association for Supervision and Curriculum Development
- Association for General and Liberal Studies
- Association for Gerontology in Higher Education
- Association of University Program in Health Administration (AUPHA)
- Association for School, College, and University Staffing, Inc.
- Association of Technology, Management, and Applied Engineering (ATMAE)
- Association of Departments of English
- Association of Departments of Foreign Languages
- Association of Environmental Health Academic Programs
- Association of Governing Boards of Universities and Colleges
- Association of Graduate Faculties in Public Health Nutrition
- Association of Schools of Journalism and Mass Communication
- Aviation Information Resources, Inc.
- Broadcast Education Association
- Broadcast Promotion and Marketing Executives Association
- College Art Association
- College Language Association
- College Placement Council, Inc.
- Conference of Southern Graduate Schools
- Consortium for the Advancement of Undergraduate Statistics Education
- Council for Advancement and Support of Education
- Council of Applied Masters Programs in Psychology
- Council of Colleges of Arts and Sciences
- Council of Graduate Departments of Psychology
- Council of Graduate Schools
- Council on Social Work Education
- Flexographic Technical Association
- Graphic Arts Technical Foundation
- Graphic Communications Council
- International Graphic Arts Education Association
- International Reading Association
- International Society of Weekly Newspaper Editors
- International Technology and Engineering Education Association (ITEEA)
- International Television Association
- Kentucky Academy of Science
- Kentucky Association of Department of English
- Kentucky Aviation Association (KAA)
- Kentucky Broadcasters Association
- Kentucky Communication Association
- Kentucky Council of Associate Degree Nursing
- Kentucky Occupational Therapy Association
- Kentucky Agriculture Council
- Kentucky Paramedic Association
- Kentucky Press Association
- Kentucky Recreation and Park Society
- Kentucky Tourism Council
- Mathematical Association of America
- Mid-South Educational Research Association
- Modern Language Association
- National Athletic Trainers Association
- National Association for Business Teacher Education
- National Association for the Exchange of Industrial Resources
- National Association for Foreign Student Affairs
- National Association of Advisors for the Health Professions
- National Association of College Admission Counselors
- National Association of College and University Attorneys
- National Association of Colleges and Teachers of Agriculture
- National Association of School Music Dealers, Inc.
- National Association of Schools of Music
- National Association of Schools of Public Affairs and Administration
- National Association of Student Personnel Administrators
- National Business Aviation Association (NBAA)
- National Collegiate Athletic Association
- National Collegiate Honors Council
- National Commission for Cooperative Education
- National Communication Association
- National Council of Arts Administrators
- National Council of Teachers of English
- National Environmental Health Association
- National Faculty Exchange
- National Fire Protection Association
- National Intercollegiate Flying Association
- National Intramural Recreational Sports Association
- National Juvenile Detention Association
- National Organization for Associate Degree Nursing
- National Recreation and Park Association
- National Safety Council
- National Society for Experiential Education
- National University Continuing Education Association
- National Wellness Association
- Newspaper Association of America
- Non-land-grant Agricultural and Renewable Resources Universities (NARRU)
- Public Relations Society of America
- Public Relations Student Society of America
- Screen Printing and Graphic Imaging Association
- Society of Professional Journalists
- Southeastern Airport Managers Association
- Southeastern Association of Advisors for the Health Professions
- Southeastern College Art Conference
- Southern Association of Colleges and Schools Commission on Colleges

- Southern Association of Collegiate Registrars and Admission Officers
- Southern Association of Community, Junior, and Technical Colleges
- Southern Council on Collegiate Education for Nursing
- Southern Regional Education Board
- Southern Regional Honors Council
- Teacher Education Council of State Colleges and Universities
- Trainer of School Psychologists
- Travel and Tourism Research Association
- University Aviation Association (UAA)

# PROGRAMS A-Z

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## A

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- Alternative Routes to Initial Certification, Master of Arts in Teaching in Teacher Education with a Concentration in Biological Science (8-12) (M.A.T.) (p. 657)
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## Online Academic Programs E-Campus Learning

Eastern Kentucky University offers students the opportunity to earn a variety of degrees and/or certificates through ECU Online. These are well established ECU academic programs provided through online interactions, discussion boards, and engaging interactive and multi-media learning methodologies.

While the ECU Online student will have a program coordinator through the academic department offering their desired degree/certificate, ECU's Office of e-Campus Learning serves as the primary contact for admission, financial aid, registration, degree audit, and general advising questions; centralizing all student services crucial to the distance-learning student. More information can be found at [www.ekuonline.eku.edu](http://www.ekuonline.eku.edu) (<http://www.ekuonline.eku.edu>)

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## Degrees Awarded

Eastern Kentucky University confers the following degrees:

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- Associate of Applied Science (AAS)
- Associate of Arts (AA)
- Associate of Arts in General Studies (AA)
- Associate of Science (AS)
- Associate of Science in Nursing (ASN)
- Associate of Science in Paramedicine (AS)

### Baccalaureate

- Bachelor of Arts (BA)
- Bachelor of Business Administration (BBA)
- Bachelor of Fine Arts (BFA)
- Bachelor of Music (BM)
- Bachelor of Social Work (BSW)
- Bachelor of Science (BS)
- Bachelor of Science in Nursing (BSN)

### Accelerated 3+2 Dual Degree Programs

- Bachelor of Arts (B.A.) and Master of Arts (M.A.) 3+2
- Bachelor of Arts (B.A.) and Master of Public Administration (M.P.A.) 3+2
- Bachelor of Arts (B.A.) and Master of Science (M.S.) 3+2
- Bachelor of Science (B.S.) and Master of Public Health (M.P.H.) 3+2
- Bachelor of Science (B.S.) and Master of Science (M.S.) 3+2

### Accelerated 3+3 Degree Programs

- Bachelor of Arts (B.A.) and Juris Doctorate (J.D.) 3+3

### Master

- Master of Arts (MA)
- Master of Arts in Education (MAEd)
- Master of Arts in Teaching (MAT)
- Master of Business Administration (MBA)
- Master of Fine Arts (MFA)
- Master of Music (MM)
- Master of Public Administration (MPA)
- Master of Public Health (MPH)
- Master of Science (MS)
- Master of Science in Nursing (MSN)
- Master of Social Work (MSW)

### Specialist

- Specialist in Education (EdS)

### Doctoral

- Doctor of Clinical Psychology (PsyD)
- Doctor of Education (EdD)
- Doctor of Nursing Practice (DNP)
- Occupational Therapy Doctorate (OTD)

## Degree Programs

Eastern Kentucky University offers the following programs which are registered with the Kentucky Council on Postsecondary Education. Many of these programs include approved options designed to provide a background tailored for students' individual needs.

## Pre-Professional Interest Areas

New Students may declare a career interest in one of the following preprofessional areas. Each student is expected to eventually declare a degree program as their first major.

These interest areas will be used to pair the student with the appropriate pre-professional advisor.

- Pre-Dentistry
- Pre-Engineering
- Pre-Law
- Pre-Medical Sciences
- Pre-Optometry
- Pre-Pharmacy
- Pre-Physician Associate
- Pre-Veterinary Medicine

## **Minors**

Eastern Kentucky University offers minors in a number of fields. Certain minors are restricted as teaching or nonteaching. Consult the index for the location of requirements for individual minors. The following minors are offered, some offering options or areas of specialization.

## **EKU Graduate Certificates and Professional Certification/Endorsement Programs**

### **EKU University Level Certificates**

These certificates are awarded by the University, and students receive a formal certificate produced in the same manner as a degree diploma. Students completing these programs must apply for graduation and are assessed a graduation fee. Students earning only certificates do not receive caps and gowns and do not participate in the commencement ceremony. The university graduation fee partially offsets the production and mailing of diplomas and certificates. The University absorbs cap and gown costs for degree earners. Application deadlines for completing university certificates follow the same time line as degree graduation.

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- AFA African/Afr-Amer Studies (AFA) (p. 845)
- AFS Aerospace Studies (AFS) (p. 847)
- AGR Agriculture (AGR) (p. 848)
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## Course Descriptions

The semester hours which may be earned by successful completion of a course are indicated in parentheses immediately following the course title, e.g., (3).

A course is offered during the semester indicated by the term#offering designation immediately following the credit hours earned:

- **I—Fall Semester**
- **II—Spring Semester**
- **A—By Announcement**

A course is offered during the indicated semester or by announcement on the assumption there will be adequate enrollment. If a course does not obtain adequate enrollment, it is subject to cancellation. The University reserves the right to cancel any course if the enrollment is not sufficient, to divide a course if the enrollment is too large for efficient instruction, and to change instructors when necessary.

The description of the course format for courses which include a laboratory experience is found at the end of the course description. A course which consists of three hours of classroom lecture and two hours of laboratory per week is described as "3 Lec/2 Lab."

Courses approved for general education are noted as such by the phrase "Gen. Ed." and an element and number designation following the course description. Example: Gen. Ed. E-6 indicates a course which fulfills a requirement in General Education Element-6: Diversity of Perspectives and Experiences. Letters in brackets [ ] designate Kentucky statewide General Education core coding. See General Education Requirements in Section Four.

## A&H Interdisciplinary (CAH)

**CAH 899. Independent Work. (1-6 Credits)**

Independent research and/or field work.

## Academic Orientation (CAS)

**CAS 349. Applied Learning. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349A. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349B. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349C. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349D. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349E. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349F. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349G. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349H. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349I. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349J. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349K. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349L. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349M. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**CAS 349N. Cooperative Study. (0.5-8 Credits)**

Prerequisite: 2.0 GPA and college approval. Work under field supervisors in placement related to academic studies. Minimum of 80 hours work for each credit hour. Repeatable up to 16 credit hours.

## ACC Accounting (ACC)

### ACC 200. Survey of Accounting. (3 Credits)

I, II. Cross listed with BUS 209. Prerequisite: MAT 105 or higher. Not for students majoring or minoring in the School of Business. Survey of foundational concepts in accounting for the user and the preparer of financial statements. Emphasis on (a) how business transaction impact financial statements and (b) measurement and behavior of costs to identify and solve business problems. Credit will not be awarded to both ACC 200 and BUS 209.

### ACC 201. Introduction to Financial Accounting. (3 Credits)

I, II. Prerequisite: STA 215 or STA 270 or MAT 105 or higher. A user's approach to understanding financial accounting and reporting, emphasizing how creditors, investors, and others use accounting information in decision making and why financial accounting information is important to these users.

### ACC 202. Introduction to Managerial Accounting. (3 Credits)

I, II. Prerequisite: ACC 201 with a grade of "C" or better. A study of the objectives, preparation and uses of managerial accounting information primarily from a user perspective. Emphasis on measurement, allocation, and reporting of costs to identify and solve business problems.

### ACC 251. Introduction to Accounting Information Systems. (3 Credits)

I, II. Prerequisite: ACC 201 with a grade of "C" or better. An introduction to manual and computer-based accounting information systems. Topics include business processes, transaction cycles, and computerized accounting software. The course stresses problem solving and computer application skills.

### ACC 301. Intermediate Accounting I. (3 Credits)

I, II. Prerequisite: CIS 212 (or INF 104) with a grade of "C". Prerequisite or Corequisite: ACC 251 with a grade of "C" or better. Financial statements, current assets, investments, current and long-term liabilities, acquisitions, use and retirement of plant and equipment.

### ACC 302. Intermediate Accounting II. (3 Credits)

I, II. Prerequisite: ACC 301 with a grade of "C" or better. Capital stock, financial statement analysis, statement of cash flows, lease and pension accounting, accounting changes, and deferred taxes.

### ACC 322. Tax I. (3 Credits)

I, II. Prerequisite: ACC 200 or ACC 201 or BUS 209 with a grade of "C" or better and junior standing. Income tax legislation-Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends, deductions; withholding. Credit will not be awarded for both ACC322 and ACC322S.

### ACC 322S. Tax I. (3 Credits)

I, II. Prerequisite: ACC 200 or ACC 201 or BUS 209 with a grade of "C" or better and junior standing. Income tax legislation- Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends, deductions; withhold- using a service learning approach. Credit will not be awarded for both ACC 322 and ACC 322S.

### ACC 327. Cost Accounting. (3 Credits)

I, II. Prerequisite: ACC 200 or ACC 202 with a minimum grade of "C". Cost flows and cost systems; the cost accounting cycle; basic cost determination systems and procedures; standard costing; budgeting and decision making applications.

### ACC 349. Applied Learning in Accounting. (0.5-8 Credits)

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as a major elective. Additional hours may be used to fulfill the 150-hour CPA exam requirement. May be repeated for a total of 16 credit hours.

### ACC 350. Accounting Information Systems and Analytics. (3 Credits)

I, II. Prerequisite: A minimum grade of "C" in ACC 251 and CIS 212 or INF 104. Review of accounting information systems regarding their inputs, processes, controls, and analysis of outputs. Topics include internal controls, business processes, data analytics and visualization, artificial intelligence, robotic process automation, and enterprise resources planning systems. 3 Lec /2 Lab.

### ACC 425. Accounting Theory. (3 Credits)

I, II. Prerequisite: ACC 302 with a grade of "C" or better and CCT 300 or CCT 300W. Emphasis on a conceptual understanding of accounting principles using literature published by the AICPA, FASB, and current writers. Accounting history, SEC, legal liability, conceptual framework, SFAS's and APB's.

### ACC 440. Legal Aspects of Accounting. (3 Credits)

I, II. Prerequisites: Senior standing (90 hours or more) and GBU 204 with a grade of "C" or better. Law as it relates to the accounting profession.

### ACC 441. Auditing I. (3 Credits)

I, II. Prerequisites: ACC 301 and GBU 204 with grades of "C" or better. Professional ethics; accountant's legal responsibility; internal control; general arrangement and procedure of an audit; asset accounts; liability accounts; operating accounts; the audit report.

### ACC 490. Independent Study. (1-6 Credits)

A. Prerequisite: ACC major with senior standing. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

### ACC 501. International Accounting and Combinations. (3 Credits)

II. Prerequisite: ACC 302 with a minimum grade of "C". Corporate combinations including consolidated balance sheets and income statements and special problems with consolidations. International topics: standards, foreign exchange transactions and translation of financial statements of foreign subsidiaries.

### ACC 521. Government and Not-For-Profit Accounting. (3 Credits)

Prerequisite: ACC 301 with a minimum grade of "C". A study of fund accounting and financial reporting concepts, applications, and practices for governmental and not-for-profit entities.

### ACC 523. Taxation of Corporations. (3 Credits)

A. Prerequisite: ACC 251 with a minimum grade of "C". Federal income tax report preparation with emphasis on partnership and corporate returns; estate and trusts; gift and estate taxes; special problems in preparation of tax returns.

### ACC 525. Forensic Accounting. (3 Credits)

A. Prerequisites: ACC 301 and GBU 204 with a grade of "C" or better or departmental approval. A study of investigative accounting procedures and techniques used in litigation support. Topics to be covered include financial reporting fraud, employee fraud, income reconstruction methods, testifying as an expert witness, evidence management, cybercrime, and business valuations.

**ACC 527. Advanced Management Accounting Seminar. (3 Credits)**

A. Prerequisite: ACC 301 and ACC 327 with a grade of "C". Addresses financial, nonfinancial and ethical dimensions of decision-making related to planning, control, and reporting. Course content goes beyond creation and accumulation of information, emphasizing appropriate application, interpretation, and use of managerial accounting information. Credit will not be awarded for both ACC 527 and ACC 727.

**ACC 590. Special Topics in Accounting:\_\_. (1-3 Credits)**

A. Prerequisite: Departmental Approval. For special topics related to the field of Accounting and beyond the scope of regularly offered courses. May be taken to a maximum of 6 hours provided the subtitle/topics vary.

**ACC 701. International Acc & Comb. (3 Credits)**

II. Prerequisite: ACC 302 with a minimum grade of "C". Corporate combinations including consolidating balance sheets and income statements, and special problems with consolidations. International topics: standards, foreign exchange transactions, and translation of financial statements of foreign subsidiaries.

**ACC 721. Government and Not-For-Profit Accounting. (3 Credits)**

Prerequisite: MBA 881 or prior formal study of the financial reporting system. A study of fund accounting and financial reporting concepts, applications, and practices for governmental and not-for profit entities.

**ACC 723. Taxation of Corporations. (3 Credits)**

A. Prerequisite: ACC 251 with a minimum grade of "C". Federal income tax report preparation with emphasis on partnership and corporate returns; estate and trusts; gift and estate taxes; special problems in preparation of tax returns.

**ACC 725. Forensic Accounting. (3 Credits)**

Prerequisites: MBA 881 or prior formal study of the financial reporting system and a foundational knowledge of the legal system. A study of investigative accounting procedures and techniques used in litigation support. Topics to be covered include financial reporting fraud, employee fraud, income reconstruction methods, testifying as an expert witness, evidence management, cybercrime, and business valuations.

**ACC 727. Adv. Mgmt. Accting. Seminar. (3 Credits)**

A. Prerequisite: ACC 301 and ACC 327 with a minimum grade of "C". Addresses financial, nonfinancial and ethical dimensions of decision-making related to planning, control, and reporting. Course content goes beyond creation and accumulation of information, emphasizing appropriate application, interpretation, and use of managerial accounting information. Credit will not be awarded for both ACC 727 and ACC 527.

**ACC 790. Special Topics in Accounting\_\_\_. (1-3 Credits)**

A. Prerequisite: Departmental Approval. For special topics related to the field of Accounting beyond the scope of regularly offered courses. May be taken to a maximum of 6 hours provided subtitle/topics vary.

**ACC 820. Survey of Accounting. (3 Credits)**

I. Designed for students who have completed a nonbusiness degree and now wish to acquire a background in accounting and/or business.

**ACC 839A. Applied Learning. (1-8 Credits)****ACC 839B. Applied Learning. (1-8 Credits)****ACC 857. Research in Taxes. (3 Credits)****ACC 860. Seminar in Accounting. (3 Credits)**

A. Prerequisite: strong accounting background. This course involves directed readings and intensive investigations into controversial and specific areas of accounting. Oral and written reports are required.

**ACC 890. Independent Study. (1-6 Credits)**

A. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a cumulative maximum of six hours.

## ADM Apparel Dsgn.& Merchndsg. (ADM)

**ADM 102. Introductory Apparel Production. (3 Credits)**

I, II. Basic principles of apparel production; selection, alteration, and fitting of commercial patterns.

**ADM 119. Introduction to Apparel Design and Merchandising. (3 Credits)**

I. An introductory study of apparel and textile producers, designers, merchandisers, retailers, consumer characteristics, consumer behavior, and ethical issues. Information sources about the industry and consumers are examined. Exploration of career opportunities.

**ADM 201. Introduction to Textiles. (3 Credits)**

I, II. Introduction to fibers, yarns, fabrics, colorations, and finishes. Emphasis on consumer use. 2 Lec/2 Lab.

**ADM 203. Pattern Alteration and Fitting. (3 Credits)**

II. Prerequisite: ADM 102. A basic study of pattern alteration and fitting using commercial patterns.

**ADM 210. Dress, Appearance and Culture. (3 Credits)**

A. Prerequisites: CDF 132 and PSY 200. Social, cultural, and psychological factors which influence beliefs, attitudes and choices regarding appearance and dress of individuals and groups.

**ADM 222. Fashion Illustration. (3 Credits)**

A. Methods and materials for clothing illustration, including sketching of the elongated fashion figure and computer-aided-design. Illustration, color and fabric rendering of original designs and clothing lines.

**ADM 300. Apparel and Textile Sourcing. (3 Credits)**

I. Prerequisites: ADM 119, 201, and ECO 230. Study of domestic and international apparel and textile sources of supply. Examines topics related to textile/apparel production, manufacturing, import/export, retailing and consumption.

**ADM 302. Textile Evaluation and Specification. (3 Credits)**

II. Prerequisite: ADM 201. Performance evaluation of textiles. Examination and development of textile standards and specifications. 2 Lec/2 Lab.

**ADM 310. Historical Costume and the Social Order. (3 Credits)**

I. Cross listed as WGS 310. Prerequisite: ADM102 or 201. History of dress from ancient Egypt through the 20th century. Factors which influence the style of dress are studied and relationship between costume of the past and current modes. Credit will not be awarded to students who have credit for WGS 310.

**ADM 312. Flat Pattern Draping Design. (3 Credits)**

A. Prerequisite: ADM 102 or department approval. Development of apparel designs through flat pattern and draping techniques.

**ADM 313. Apparel Design and Quality. (3 Credits)**

II. A study of apparel selection including terminology, sizing of ready-to-wear, factors influencing quality levels of sewn products, and principles of design and aesthetics of dress.

**ADM 319. Apparel Merchandising. (3 Credits)**

A. Prerequisites: ADM 119 and ECO 230. The merchandising of apparel, including merchandise control, buying procedures, vendors, vendor relations, planning assortments and budgets for basic and fashion categories. Practice in merchandise mathematics.

**ADM 339. Visual Merchandising. (3 Credits)**

I. Prerequisite: junior standing or department approval. Principles and techniques used in the display of fashion merchandise and their application in planning and actual display of fashion goods for store windows and interiors.

**ADM 349. Applied Learning in Apparel. (0.5-8 Credits)**

A. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester. Total hours: eight, associate; sixteen, baccalaureate. Minimum of 80.

**ADM 349A. Cooperative Study: Apparel. (0.5-8 Credits)**

A. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester. Total hours: eight, associate; sixteen, baccalaureate. Minimum of 80 hours work required for each academic credit.

**ADM 349B. Cooperative Study: Apparel. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**ADM 349C. Cooperative Study: Apparel. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**ADM 349D. Cooperative Study: Apparel. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**ADM 349E. Cooperative Study: Apparel. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**ADM 411. Advanced Apparel Production. (3 Credits)**

A. Prerequisites: ADM 102 or department approval. Tailoring and other advanced apparel production techniques. Exploration of appropriate production techniques for specialty fabrics.

**ADM 412. Advanced Apparel Design. (3 Credits)**

A. Prerequisites: ADM 201 and 312 or department approval. Solving design problems through fabric selection, patternmaking techniques, and apparel production methods. Presentation of design concepts in a portfolio.

**ADM 413. Apparel Product Development. (3 Credits)**

II. Prerequisites: ADM 102, 210, 300, 313, 349. Problem solving and the development of sewn products and services in the apparel industry.

**ADM 414. Apparel Design and Merchandising. (6 Credits)**

A. Prerequisites: ADM 312 or 319, 413 and 2.0 cumulative GPA. Supervised practicum studying apparel design and/or merchandising in manufacturing, design, retail or wholesale firms.

**ADM 419. Special Problems in ADM. (1-3 Credits)**

A. Prerequisites: 3.0 GPA and department approval. The student selects a problem and works under the supervision of the instructor. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours, providing additional study projects differ.

**ADM 550. ADM Topics:\_\_\_\_. (1-3 Credits)**

A. A course designed to offer specialized expertise in numerous areas related to textiles, clothing, and fashion. May be retaken to a maximum of six hours provided topics vary.

**ADM 750. ADM Topics:\_\_\_\_\_. (1-3 Credits)**

A. A workshop course designed to offer specialized expertise in numerous areas related to textiles, clothing and fashion. May be retaken to a maximum of six hours provided workshop topics vary.

**ADM 810. Socio-Psych Factors of Apparel. (3 Credits)**

A. Social, cultural, and psychological factors which influence personal satisfaction in selection and use of apparel.

**ADM 819. Special Problems in ADM. (1-3 Credits)**

A. Prerequisites: 3.0 GPA and instructor approval. The student selects a problem and works under the supervision of the instructor. May be retaken to a maximum of six hours providing topics vary. Students having received credit for the course at the 500 level may take this course to a maximum of six hours, including the undergraduate credits. Those who have not received credit for this course at the undergraduate (500) level may retake it to a maximum of six hours credit. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## AED Art Education (AED)

**AED 360. Introduction to Materials Injury. (3 Credits)**

I. Students will explore processes and materials used in K-12 programs, will present exploration results through seminar-style discussions and demonstrations, and will begin to understand and practice developmentally appropriate teaching strategies through peer teaching. Credit will not be awarded for both AED 360 and ART 360.

**AED 361. Art Teaching Grades P-5. (3 Credits)**

I. AED 360 or departmental approval, and admission to professional education. Developmentally appropriate curriculum, materials, and methods for the grades P-5. Minimum of 10 field/clinical hours. Credit will not be awarded for both EME 361 and AED 361.

**AED 460. Materials Inquiry in Art Educ. (3 Credits)**

I. Prerequisites: AED 360 or ART 360 and open to senior art students who plan to teach. Diversified inquiry into art materials and processes in the elementary and secondary schools. Credit will not be awarded for both ART and AED 460.

**AED 540. Teaching Art in the Schools. (3 Credits)**

I. Cross-Listed as ESE 540. Prerequisites: Admission to professional education; EDF 413 (C), EMS 490 (C), CED (B), and 90 hours in the BA in Art Education Program. Co-requisite: AED 561 and CED450. Developmentally appropriate materials and methods for teaching art in the schools. Credit will not be awarded for both AED 540 and ESE 540.

**AED 561. Materials Inquiry in Art Education. (3 Credits)**

A. Prerequisites: AED 360 and admission to professional education. Co-requisite: CED 450. Diversified inquiry into art materials and processes in the elementary and secondary schools. Maximum number of repeatable hours: 6.

**AED 740. Art Teaching: Scondary School. (3 Credits)**

I. Cross-listed as ESE 740. Prerequisite: Admission to the Master of Arts in Teaching Program. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching art in the schools. Maximum number of repeatable hours: 6. Credit will not be awarded for both ESE740 and AED 740.

**AED 761. Material Inquiry in Art Ed. (3 Credits)**

I. Prerequisite: Open to graduate and Master of Arts in Teaching students in Art education. Diversified inquiry into art materials and processes in the elementary and secondary schools. Maximum number of repeatable hours: 6.

## AEM Applied Engineering Mgt (AEM)

### AEM 195. Computer Aided Drafting. (3 Credits)

I, II. An introductory course in freehand sketching and computer-aided drafting/design. Students will be taught basic CAD commands, tools, multi-view drawings and dimensioning techniques. 2 Lec/2 Lab.

### AEM 201. Metallic Material Processes. (3 Credits)

I, II. Formerly INT 201. Introduction to manufacturing processes involving metallic materials. Families of processes covered are casting, molding, forming, separating, conditioning, assembling, and finishing. 2 Lec/2 Lab.

### AEM 202. Introduction to Quality. (3 Credits)

I, II. Formerly INT 202. Prerequisite: STA 215 or 270 and MAT 114 or higher mathematics. Role of statistical thinking in modern quality control. Methods for problem solving, data collection, and process improvement. Deriving actionable conclusions from data analyses. Understanding, quantifying, and reducing variation to improve business performance.

### AEM 242. Furniture and Cabinet Construction. (3 Credits)

A. Formerly INT 242. Prerequisite: TEC 141. Principles of furniture and cabinet construction, elements of structural design, advanced woodworking operations; care and sharpening of tools related technical information; furniture and cabinet construction and finishing. 2 Lec/2 Lab.

### AEM 301. Non-Metallic Material Processes. (3 Credits)

II. Formerly INT 301. Introduction to manufacturing processes used to shape or form wood, plastic, and composite materials. Families of processes covered are casting, molding, forming, separating, conditioning, assembling, and finishing. 2 Lec/2 Lab.

### AEM 308. Methods of Lean Operations. (3 Credits)

I, II. Prerequisite: STA 215 or 270 and MAT 114 or higher. Examination of lean principles, such as value mapping, continuous flow, continuous improvement, determination of customer demand, and standard work. Concepts and implementation of pull, line balancing, lean accounting, FMEA, time studies, and total productive maintenance.

### AEM 310. Technical Communication. (3 Credits)

I. Prerequisites: ENG 102 and TEC 161. Formerly INT 310. A conceptual approach to computer aided communication systems typically applied in industrial environments. Emphasis will be placed on utilizing computer technology to integrate text and graphics in the preparation of documents and presentation materials. Credit will not be awarded for both AEM 310 and AEM 310W.

### AEM 310W. Technical Communication. (3 Credits)

I. Prerequisites: ENG 102 or ENG 105 (B) or HON 102, TEC 161. An approach to computer aided written communication typically applied in industrial environment. Emphasis will be placed on utilizing computer technology to integrate text and graphics in the preparation of documents and presentation materials. Credit will not be awarded for both AEM 310 and AEM 310W.

### AEM 320. Warehousing and Material Handling. (3 Credits)

A. Pre/Corequisites: AEM 202 or INT 202 and AEM 308 or INT 308. Formerly INT 320. A laboratory oriented course that examines basic warehouse layout configurations, material flow, and a critical evaluation of the application of computers to control material flow, plus the use of computer simulation to analyze various warehouse layout options for scheduling, picking and material tracking. 2 Lec/2 Lab.

### AEM 330. Material Testing and Metrology. (3 Credits)

A. Prerequisites: AEM195, 201 and MAT120. A study of geometric dimensioning and tolerancing as used in detail working drawings and the principles, standards, equipment, and techniques of precision electronic and mechanical measurement. 2 Lec/2 Lab.

### AEM 332. Process Control and Auditing. (3 Credits)

A. Prerequisite: AEM 202 or INT 202. Formerly INT 332. An advanced study of the Statistical Process Control methods and procedures in industry, and auditing as a method of evaluating the documentation, implementation, and effectiveness of a Quality System.

### AEM 336. Reliability and Sampling. (3 Credits)

A. Prerequisite: AEM 202 or INT 202. Formerly INT 336. An overview of reliability, testing, and sampling theories. Topics include component and system reliability, product safety, sampling plans, control charts, and standards.

### AEM 338. Engineered Materials Testing. (4 Credits)

A. Prerequisites: AEM 201, MAT 120 and TEC 190. Structure, composition, properties, tolerances, standards, and common applications of engineering materials. Use of GD&T and techniques for precision electronic and mechanical measurement and testing.

### AEM 349. Applied Learning in Industrial Technology. (0.5-8 Credits)

I, II. Prerequisite: departmental approval. Formerly INT 349. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate, sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

### AEM 352. Robotics and Automated Systems. (3 Credits)

A. Prerequisite: EET 251. Formerly INT 352. Introduction to fixed and flexible automation equipment with an emphasis placed on industrial robot systems. Topics include robot safety, programming and operation, and effector design, programmable logic controllers, interfacing devices, and sensors. 2 Lec/2 Lab.

### AEM 367. Comp Exam for AAS in Technology, Applied Engineering . (0 Credits)

Prerequisite: Departmental Approval. Registration is required of all A.A.S. Technology, Applied Engineering majors during their last semester. A comprehensive assessment exam is required.

### AEM 371. Hydraulics and Pneumatics. (3 Credits)

II. Formerly INT 371. Principles of the operation, construction, control and application of hydraulic and pneumatic components and circuits. The study of control applications includes manual, mechanical, fluid, electrical, and computer controlled fluid circuits. 2 Lec/2 Lab.

### AEM 382. Advanced Material Processing. (3 Credits)

A. Prerequisites: AEM 201 or INT 201 and AEM 301 or INT 301. Formerly INT 382. A laboratory course involving advanced material processing which includes project planning and management, machining, welding, precision layout, and measuring. Students will design and fabricate projects that include two-part mold designs, CNC machining, and multi-process welding. 2 Lec/ 2 Lab.

### AEM 383. CAD/CAM Integration. (3 Credits)

A. Prerequisites: AEM 201 or INT 201. Formerly INT 383. The use of computer application software to link data bases created with computer aided design software to computer numerical controlled machine tools. 2 Lec/2 Lab.

### AEM 390. 3-D Parametric Solid Modeling. (3 Credits)

A. Prerequisites: AEM 195 or INT 195. Formerly INT 390. A study of advanced topics in three-dimensional computer aided design. The content will include advanced modeling and rendering. 2 Lec/2 Lab.

**AEM 392. Computer Aided Machine Drawing. (3 Credits)**

I. Prerequisite: AEM 195 or INT 195. Formerly INT 392. Computer generated detail and assembly drawings. Topics include threads and fasteners, gearing and cams, and dimensioning and tolerancing. 2 Lec/2 Lab.

**AEM 395. Special topics in AEM:\_. (2-3 Credits)**

Prerequisite: AEM202. Departmental approval, junior or higher standing. Explores emerging technologies in the area of applied engineering. May be repeated up to a maximum of 9 hours provided subject matter is different each time.

**AEM 397. Advanced Machine Drawing. (3 Credits)**

A. Prerequisites: AEM 390 or INT 390 or MFG 390 and AEM 392 or INT 390 or MFG 392. Formerly INT 397. Advanced machine drawing applications to include detail and assembly drawings, threads and fasteners, gearing and cams. Emphasis on shape description. 2 Lec/Lab 2.

**AEM 406. Integrated Materials Mgmt.. (3 Credits)**

I, II. Prerequisites: AEM 202. Formerly INT 406. A senior course which examines consumer demand characteristics, product bill materials, establishing sales and operations plans, planning and controlling inventory in the supply chain.

**AEM 407. Fundamentals of Project Management. (3 Credits)**

(3) I. Prerequisite: AEM 202. Introduction to project selection, life cycle, planning using scope of work, WHS, CPM, scheduling, execution, resource allocation, expediting and clothing.

**AEM 408. Human Resource Development. (3 Credits)**

I, II. Formerly INT 408. Topics in human relations and production management. To be scheduled the semester before graduation.

**AEM 467. Comprehensive Exam for BS in ETM. (0 Credits)**

A. Prerequisite: Consent of Advisor. Registration is required of all Applied Engineering Management and Engineering Technology Management B.S. majors during their last semester. A comprehensive assessment exam is required.

**AEM 499. Senior Capstone Project. (3 Credits)**

A. Prerequisite: AEM 310, 352, 407 and Senior Standing. Formerly INT 499. A synthesis experience involving the application of theory in solving a realistic industrial problem. Emphasis is placed upon project setup, solution, justification, report and presentation. 2 Lec/2 Lab.

**AEM 506. Six Sigma Quality. (3 Credits)**

A. Formerly INT 506. Prerequisite: AEM 202. A study of six sigma methodology and current practices with an emphasis on key quality drivers and statistical methods for world-class products and companies.

**AEM 530. Design of Experiments. (3 Credits)**

A. Formerly INT 530. Prerequisite: AEM 202. Principles and practices of efficient experiment design for industry. Topics include the philosophy of experiment design, comparison of various designs, hypothesis testing, and the analysis of data.

**AEM 706. Six Sigma Quality. (3 Credits)**

A. Formerly INT 706. Prerequisite: AEM 202. A study of six sigma methodology and current practices with an emphasis on key quality drivers and statistical methods for world-class products and companies.

**AEM 730. Design of Experiments. (3 Credits)**

A. Formerly INT 730. Prerequisite: AEM 202. Principles and practices of efficient experiment design for industry. Topics include the philosophy of experiment design, comparison of various designs, hypothesis testing, and the analysis of data.

**AEM 801. Economics for Lean Operations. (3 Credits)**

A. Cost management, budgeting, accounting, capital planning, and other topics necessary for making effective economics decisions from a lean perspective. Quantitative methods and computer applications used to formulate decisions relating to operations.

**AEM 802. Product Assess & Analysis. (3 Credits)**

A. A study of industrial productivity; its assessment, measurement, analysis and improvements with emphasis upon human productivity, and machine, material, and process productivity.

**AEM 804. Project Management. (3 Credits)**

A. Elements of managing projects including the use of modern project management software.

**AEM 805. Operations Research. (3 Credits)**

A. Concepts and applications of analytical models in decision-making. Includes general concepts of models and simulation, linear programming, transportation and assignment problems, forecasting and network flow in determining optimal industrial strategies.

**AEM 820. Industrial Technology Proposal. (3 Credits)**

A. Formerly INT 820. Prerequisite: departmental approval. An individually developed proposal related to a project typically encountered by a manager in a technical environment. The project proposal is to be approved by the student's graduate advisor.

**AEM 821. Industrial Technology Project. (3 Credits)**

A. Formerly INT 821. Prerequisite: INT 820 or departmental approval. An individually developed project related to the solution of a typical problem encountered by a manager in a technical environment. The problem is to be approved by the student's graduate advisor and the results presented in open forum.

**AEM 822. Manufacturing Internship. (3-6 Credits)**

A. Formerly INT 822. Prerequisite: departmental approval. Planned and supervised experience in industry in which the students will have the opportunity to observe and participate in manufacturing management activities. The experience must be for at least one semester and the plan of activities should be approved by the student's graduate committee.

**AEM 839. Applied Learning in Tech Mgmt. (3-6 Credits)**

(3-6) A. Prerequisite: Departmental approval. Planned and supervised experience in industry. The experience must be for at least one semester and the plan of activities must be approved by the student's graduate committee. Minimum of 80 hours work required for each academic credit.

## AFA African/Afr-Amer Studies (AFA)

**AFA 200. Exploring Africa Through Play. (3 Credits)**

I, II. Prerequisite: ENG 102 or ENG 105(B) or HON 102. Corss-listed as EMS 200. An exploration if the diversity of Sub-Saharan Africa through an immersion in pre-Colonial children's songs and games. The course aims at developing a deeper understanding and sensitivity to cultural diversity in Africa. Credit will not be awarded for both EMS 200 and AFA200. Gen. Ed. E-6.

**AFA 201. The African Experience. (3 Credits)**

A. Introduces students to the historical, socio-economic, cultural, and political experiences of African people in Africa and the Diaspora. It fulfills a core requirement for African/African-American Studies. Credit will not be awarded to students who have credit for AFA 201W. Gen. Ed. Element 3B and Element 6.

**AFA 201W. The African Experience. (3 Credits)**

A. Prerequisite: ENG 102, or ENG 105(B), or HON102(B). Introduces students to the historical, socio-economic, cultural, and political experiences of African people in Africa and the Diaspora. It fulfills a core requirement for African/African-American Studies. Credit will not be awarded to students who have credit for AFA 201. Gen. Ed. Element 3B and Element 6.

**AFA 202. The African American Experience. (3 Credits)**

A. An overview of the historical, social, political, economic, and cultural factors that have helped shape the experiences of African Americans in the United States. It fulfills a core requirement for African and African American Studies. Credit will not be awarded for both AFA202 and AFA202W. Gen. Ed. VII (SBS) and VIII.

**AFA 202W. The African American Experience. (3 Credits)**

A. An overview of the historical, social, political, economic, and cultural factors that have helped shape the experiences of African Americans in the United States. It fulfills a core requirement for African and African American Studies. Credit will not be awarded for both AFA202 and AFA202W. Gen. Ed. VII (SBS) and VIII.

**AFA 225. African/African-American Health Issues. (3 Credits)**

A. Cross listed as EHS 225. Provides the student with an understanding of the medical and public health issues relevant to the maintenance of health conditions both in the United States and Africa. Credit will not be awarded to students who have credit for EHS 225.

**AFA 247. AFA Special Topics:\_\_\_\_. (3 Credits)**

A. Specialized study of selected topics not available in traditional course offerings. Course designed for lower-division students. May be retaken with different topics to a maximum of six hours.

**AFA 304. Slavery in the Americas. (3 Credits)**

A. Cross listed as HIS 304. The history of slavery, bound labor, and freedom in the Western Hemisphere. Special attention will be given to anti-slavery and abolitionist movements. Credit will not be awarded to students who have credit for HIS 304.

**AFA 305. African American History. (3 Credits)**

A. Course cross listed with HIS 305. African history to 1500; Europe, Africa, and the Americas; trans-Atlantic and domestic slave trades; American slavery: emancipation; post-emancipation experiences and initiatives; persistence of black nationalism. Credit will not be awarded to students who have credit for HIS 305.

**AFA 330. U.S. South and Black Education. (3 Credits)**

A. Cross listed as EDF 330. This course introduces the major themes of Black populations educational opportunities in Southern States in the U.S. Students will acquire knowledge about historical events, people and policies shaping the evolution of Blacks in education. Credit will not be awarded to students who have credit for EDF 330. Gen. Ed. VIII.

**AFA 345. Minority Group Politics. (3 Credits)**

A. Cross listed as POL 345. Examination and comparison of various theories, strategies, forms of participation, leadership styles, and concepts (e.g. Black Power) of minority group politics. Credit will not be awarded to students who have credit for POL 345. Gen Ed. VIII.

**AFA 347. Special Topics in AFA Studies. (3 Credits)**

A. Specialized study of selected topics not available in traditional course offerings. May be retaken with different topics to a maximum of six hours.

**AFA 349. Applied Learning in AFA Studies. (0.5-3 Credits)**

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

**AFA 349A. Cooperative Study: AFA Studies. (0.5-3 Credits)**

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

**AFA 349B. Cooperative Study: AFA Studies. (0.5-3 Credits)**

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

**AFA 349C. Cooperative Study: AFA Studies. (0.5-3 Credits)**

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

**AFA 349D. Cooperative Study: AFA Studies. (0.5-3 Credits)**

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

**AFA 349E. Cooperative Study: AFA Studies. (0.5-3 Credits)**

A. Work in a cooperative placement related to student's academic studies. May earn a maximum of three hours. A minimum of 80 hours work required for each semester hour credit.

**AFA 356. African American Political Thought. (3 Credits)**

A. Cross-listed as POL 356. Prerequisite: ENG 102(B) or ENG 105(B) or HON 105(B). Examination of political ideas espoused by African American activists from the nineteenth century to the present. Credit will not be awarded to students who have credit for POL 356. Gen. Ed. E-6.

**AFA 360. Literatures of Africa. (3 Credits)**

A. Cross listed as ENG 360. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. Survey of the genres and components of African literature, oral and written; study of how key concepts in African thought, culture and experiences are reflected in the literatures composed by writers from Africa or of African origins. Credit will not be awarded to students who have credit for ENG 360. Gen. Ed. Element 6.

**AFA 361. African American Literature. (3 Credits)**

A. Prerequisite ENG 102 or 102R or 105(B) or HON 102. Cross listed as ENG 361. Survey of selected works of African American literary traditions. Credit will not be awarded to students who have credit for ENG 361. Gen. Ed. Element 6.

**AFA 367. African Caribbean Literatures. (3 Credits)**

A. Cross listed as ENG 367. Prerequisites: ENG 102 or ENG 102R or ENG 105 (B) or HON 102. A study of selected literatures written by Caribbean writers of African descent. Credit will not be awarded for both AFA 367 and ENG 367.

**AFA 372S. Blacks in Madison County. (3 Credits)**

A. Through a service-learning approach this course provides an opportunity for students to research the historical people, institutions, and cultural factors that helped shape the experience of African-Americans in Madison County, Kentucky.

**AFA 378. Black Women in History. (3 Credits)**

A. Cross listed as WGS 378. Examines the lives of African-American women from slavery to the present with emphasis on the impact of race, gender, and class issues on their multi-faceted lives as women in America. Credit will not be awarded to students who have credit for WGS 378.

**AFA 385. Early African History. (3 Credits)**

A. Cross listed as HIS 385. Prerequisite: ENG 102, 105 (B) or HON 102. History of Africa from earliest times to 1860. Emphasis on social, political, economic, and cultural change in states and societies; oral tradition; the environmental and human activities; slavery and the slave trades. Credit will not be awarded to students who have credit for HIS 385.

**AFA 386. Modern African History. (3 Credits)**

A. Cross listed as HIS 386. ENG 102, 105 (B) or HON 102. History of Africa from the 19th century to the present. Themes include: trade and politics; European conquest and African resistance; rural survival and urban popular culture; race, class, gender, ethnicity, and age; African nationalism and independence. Credit will not be awarded to students who have credit for HIS 386.

**AFA 388. Islam in West Africa. (3 Credits)**

A. Cross listed as HIS 388. History of Islam and politics in West Africa from 1000 C.E. to the present. Emphasis on the role of Islam in major socioeconomic, political, and cultural transformations of West African states and societies. Credit will not be awarded to students who have credit for HIS 388.

**AFA 400. Race and Ethnicity. (3 Credits)**

A. Cross-listed as SOC 400. Prerequisites: SOC 131 or SOC 235; ENG 102 or ENG 102R or ENG 105(B) or HON 102. Analysis of the development of racial and ethnic relations from the perspective of sociology and related social sciences. Examination of issues related to dominant and minority group status in the United States and cross-culturally. Gen. Ed. E-6. Credit will not be awarded for both AFA 400 and SOC 400.

**AFA 435. U.S. Civil Rights Movement. (3 Credits)**

A. Cross listed as HIS 435. Prerequisites: three hours AFA or departmental approval. Examination through primary and secondary sources of the origins, course, ideologies, and legacy of the mid-twentieth century American movement for racial justice and equality. Discussion of the central scholarly issues in civil rights studies. Credit will not be awarded to students who have credit for HIS 435.

**AFA 495. Independent Study. (3 Credits)**

A. Prerequisites: AFA 201, AFA 202, and departmental approval. Individual study and/or research on a problem/topic pertaining to African, African American and/or African Caribbean experience. Student must have the independent study proposal form approved by the faculty supervisor and the program director prior to enrollment.

**AFA 510. African Textile Design. (3 Credits)**

(3) A. Prerequisite: AFA 201 or AFA 202 or Departmental Approval. This course investigates the symbolism of textile design in Africa, as it examines the developments in contemporary textile art within Africa and in the African Diaspora.

**AFA 710. African Textile Design. (3 Credits)**

(3) A. This course investigates the symbolism of textile design in Africa, as it examines the developments in contemporary textile art within Africa and in the African Diaspora.

## AFS Aerospace Studies (AFS)

**AFS 111. Aerospace Studies I. (1 Credit)**

I. This course deals with the Air Force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces, and aerospace support forces.

**AFS 112. Leadership Seminar. (1 Credit)**

I. Introduces Air Force customs and courtesies, drill and ceremonies, and wear of the uniform. The course also includes a discussion of career opportunities in the Air Force.

**AFS 113. Aerospace Studies I. (1 Credit)**

A continuation of AFS 111.

**AFS 114. Leadership Seminar. (1 Credit)**

I. A course designed to develop managerial skills including superior/subordinate relationships, communications, customs and courtesies, basic drill movements and career progression requirements. Credit will not be granted toward the hours requirements for the degree. Pass/fail only.

**AFS 211. Aerospace Studies II. (1 Credit)**

I. This course is a study of air power from balloons and dirigibles through the jet age. It is an historical review of air power employment in military and nonmilitary operations in support of national objectives; and a look at the evolution of air power concepts and doctrine.

**AFS 212. Leadership Seminar. (1 Credit)**

I. Air Force customs, courtesies and opportunities are emphasized. The cadet is prepared for individual, flight and squadron movements in drill and ceremonies.

**AFS 213. Aerospace Studies II. (1 Credit)**

A continuation of AFS 211.

**AFS 214. Leadership Seminar. (1 Credit)**

II. Emphasis on preparing cadets for attendance at field training during succeeding summer.

**AFS 311. Aerospace Studies III. (3 Credits)**

I. Prerequisite: acceptance into the professional officer course. A study of management functions with emphasis on the environment. Individual motivational and behavioral process, communication, and group dynamics are included for the development of professional skills.

**AFS 312. Aerospace Seminar. (1 Credit)**

I. Involves the cadets in advanced leadership experiences to prepare for active duty. Cadet responsibilities include planning, organizing, directing, coordinating, and controlling the activities of the cadet corps and preparing briefings and written communications.

**AFS 313. Aerospace Studies III. (3 Credits)**

II. Prerequisite: AFS 311. A study of leadership with specific emphasis on the Air Force leader. Includes theoretical, professional, and communicative aspects. In addition, military justice and administrative law are discussed within the context of the military organization.

**AFS 314. Leadership Seminar. (1 Credit)**

I. Cadets continue preparations for fulfilling leadership positions as an active duty Air Force officer.

**AFS 411. Aerospace Studies IV. (3 Credits)**

I. Prerequisites: AFS 311 and 313. A study of the military profession, civil-military interactions, communication skills, framework of defense policy, and formulation of defense strategy.

**AFS 412. Leadership Seminar. (1 Credit)**

I. Involves the cadets in higher level advanced leadership experiences. In addition, the cadets receive a final block of instruction for Initial Commissioned Service.

**AFS 413. Aerospace Studies IV. (3 Credits)**

II. Prerequisite: AFS 411. Continues the study of strategy and the management of conflict, formulation and implementation of U.S. defense policy, defense organization, and case studies in defense policy making.

**AFS 414. Leadership Seminar. (1 Credit)**

II. Cadets prepare for Initial Commissioned Service by fulfilling advanced leadership positions. Continued emphasis on group dynamics and the role of future leaders in the Air Force.

**AFS 495. Independent Work. (2-6 Credits)**

A. Prerequisite: approval of professor of aerospace studies. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. A study of an advanced problem on an aerospace subject under the guidance of the Chairman of the Department of Aerospace Studies.

## AGR Agriculture (AGR)

**AGR 105. Introductory Topics in Agriculture. (3 Credits)**

I, II. A non-structured course for incoming students who have met the secondary skills standard examination requirements in the area of agriculture. Departmental chair approval required prior to enrollment. May be taken to a maximum of 6 hours.

**AGR 111. Introduction to American Agriculture. (3 Credits)**

A. An overview of the agriculture industry in the United States including significant past events, current status and trends. Complexities of laws and regulations and their influence on the producer and consumer.

**AGR 115. Operation of Agricultural Equipment. (2 Credits)**

(2) I. Lecture, laboratory and field experiences related to agricultural power equipment, and their safe operation, including hydraulics, electricity, chemical, and processing & handling facilities. 1 Lec/2 Lab.

**AGR 125. Principles of Animal Science. (3 Credits)**

I. Corequisite: AGR 126. Management and production of livestock enterprises; types, market classes, and grades of beef cattle, sheep and swine, and the breeds and products of dairy cattle.

**AGR 126. Animal Science Laboratory. (1 Credit)**

I. Corequisite: AGR 125. Applied principles in the proper handling, restraint, and management techniques in beef, dairy, sheep, swine, and horses.

**AGR 130. Plant Science. (3 Credits)**

I. Corequisite: AGR 131. Principles of plant growth, reproduction, and plant-soil relationships. Provides foundations of information for further study in agricultural and horticultural crop production and soil management. Credit will not be awarded to students who have credit for OHO 131.

**AGR 131. Plant Science Laboratory. (1 Credit)**

I. Corequisite: AGR 130. Laboratory and field experiences related to plant growth, development, and management of crops. Credit will not be awarded to students who have credit for OHO 132.

**AGR 170. Appl Unmanned Aerial Sys Agri. (3 Credits)**

I. Introduction to the application of UAS/drones in agriculture. Typical applications and an overview of foundational skills needed to safely operate UAS systems in the U.S. airspace. 2 Lec/2 Lab.

**AGR 213. Principles of Agricultural Mechanics and Energy Systems. (3 Credits)**

I, II. Principles of operation, maintenance, and repair of electrical motors; basic electrical circuits, electrical power generation and electrical controls for agricultural mechanization systems and power requirements for agricultural structures; theoretical and practical experience.

**AGR 215. Principles of Soils. (3 Credits)**

I, II. Corequisite: AGR216. Soil origin, classification and properties, soil conservation, soil microorganisms, organic matter, soil water, soil minerals, lime and commercial fertilizers, soil erosion, soil management.

**AGR 216. Principles of Soils Laboratory. (1 Credit)**

(1) I,II. Corequisite: AGR 215. Laboratory and field experiences related to soils, and their properties, including soil sampling, fertility, pH, liming, water and texture. 2 Lab.

**AGR 225. Evaluation and Selection of Livestock. (3 Credits)**

II. An evaluation of dairy cattle, beef cattle, swine and sheep; use of records, body type ratings, and carcass information as they relate to functional anatomy and efficiency of production; sire selection and pedigree interpretation. 2 Lec/2 Lab.

**AGR 250. Introduction to Horses. (3 Credits)**

A. History and role of horses and the equine industry, breeds of horses and ponies for work and pleasure, includes terminology, management and responsibilities, breeding, pests, current issues and care of horses.

**AGR 255. Companion Animal Management. (3 Credits)**

A. Care and management of dogs, cats, rabbits, birds, reptiles and tropical fish. Companion animal breeds, behavior, nutrition, genetics and reproduction will be emphasized.

**AGR 300. Travel Study in Agriculture Technology. (1-6 Credits)**

A. A travel course for groups and individuals in agriculture and horticulture to study new and emerging technologies in agriculture and horticulture, structural organizations of agricultural enterprises, and professional and interpersonal relationships. May be retaken once.

**AGR 301. Directed Work Experience. (1-4 Credits)**

I, II. Agriculture majors only; minimum sophomore standing or departmental approval. A minimum of three hours per week per hour of credit using university or other approved facilities. May be retaken for a maximum of 4 credit hours.

**AGR 302. Directed Work Experience- Management Practicum. (3 Credits)**

I, II. Student will schedule nine hours of work per week during the semester on a university farm to practice management and production skills related to a livestock herd or machinery operations. Options may be taken to a maximum of 12 hours. AGR 302A Agricultural Mechanization Option. AGR 302B Beef Cattle Option. AGR 302C Swine Option. AGR 302D Dairy Cattle Option. AGR 302E Crops Option. AGR 302F Sheep Option. AGR 304 Pest Management. (4) II. Identification of the principal agriculture and horticulture insect disease and weed pests in Kentucky. Control measures are identified with special emphasis on the safe use of chemicals and equipment calibration.

**AGR 302A. Agricultural Mechanization Option. (3 Credits)****AGR 302B. Beef Cattle Option. (3 Credits)****AGR 302C. Swine Option. (3 Credits)****AGR 302D. Dairy Cattle Option. (3 Credits)****AGR 302E. Crops Option. (3 Credits)****AGR 302F. Sheep Option. (3 Credits)****AGR 304. Pest Management. (4 Credits)**

Identification of the principal agriculture and horticulture insect disease and weed pests in Kentucky. Control measures are identified with special emphasis on the safe use of chemicals and equipment calibration. Credit will not be awarded for both AGR 304 and OHO 304. 3 Lec/2 Lab.

**AGR 305. Professional Skills Seminar. (1 Credit)**

A. Prerequisite: completion of 30 hours in the Associate or more than 60 hours and less than 90 hours in the Bachelor Degree Program. Course prepares students for the job market including; resume development, cover letter preparation, job interview skills and oral presentations.

**AGR 308. Agricultural Economics. (3 Credits)**

I, II. Prerequisite: ECO 120. An introduction to the economic environment of the agribusiness sector. Examines the role of agriculture in the U.S. and world economies. Includes concepts and principles concerning individual agribusiness decision making.

**AGR 310. Principles of Agribusiness Management. (3 Credits)**

II. Prerequisite: AGR 308. Organization and operation of the farm related agricultural business with emphasis on budgeting, enterprise selection, financial statements, and resource management. Includes microcomputer applications and survey of government regulations that are applicable to topic.

**AGR 311. Agriculture Metal Fabrication. (2 Credits)**

A. Principles and techniques of arc and oxyacetylene welding and soldering as it pertains to fabrication and repair of agriculture machinery and equipment. 1 Lec/2 Lab.

**AGR 312. Ecology and Management of Grasslands and Pastures. (4 Credits)**

II. Prerequisites: AGR 130 and 131, and Junior standing. Examination of grasslands and pastures from an ecological perspective with an emphasis on wildlife and livestock management. 3 Lec/2 Lab.

**AGR 318. Soil/Water Conservation Technology. (3 Credits)**

A, I. Principles and procedures for basic surveying and soil-water conservation systems. This will include how rainfall, run-off, erosion, contours, ponds, lagoons, drainage, and irrigation interact with the desired conservation system. 2 Lec/2 Lab.

**AGR 319. Renewable and Sustainable Energy Systems. (3 Credits)**

(3) II. Crosslisted as ENV 319. Prerequisite: ENG 102 or ENG 105 (B) or HON 102; and MAT 105 or higher. Principles of energy and how those needs can potentially be met in the future will be discussed. Comparisons of existing energy sources (fossil fuels, nuclear power) with renewable sources (biomass, solar, and tidal). Credit will not be awarded for both AGR 319 and ENV 319.

**AGR 321. Feeds and Feeding. (4 Credits)**

I. Feeds used in livestock feeding; including harvesting, storage, feeding characteristics, and ration formulation from these feedstuffs. 3 Lec/2 Lab.

**AGR 326. Light Horse Production and Management. (4 Credits)**

A. Prerequisite: AGR 125 and 126, AGR 250, or Departmental Approval. Size and scope of horse industry, conformation and selection of horses, basics of equine nutrition and reproduction. Signs of health and illness. Routine health care procedures. 3 Lec/2 Lab.

**AGR 327. Beef Production. (4 Credits)**

I. Prerequisites: AGR 125 and 126. History, importance, and trends associated with the beef cattle industry; systems of selecting, breeding, feeding, marketing, and management of beef cattle. 3 Lec/2 Lab.

**AGR 328. Swine Production. (4 Credits)**

A. Prerequisites: AGR 125 and 126. History, importance, and trends associated with the swine industry; systems of selecting, breeding, feeding, marketing, and management of swine. 3 Lec/2 Lab.

**AGR 329. Sheep and Goat Production. (4 Credits)**

(4). A. Prerequisite: AGR125 and 126. An overview of the sheep and goat industry. Topics include selection, breeding, reproduction, health, nutrition, management, and marketing of sheep and goats and their products. 3 Lec/2 Lab.

**AGR 330. Animal Products. (3 Credits)**

A. Prerequisites: AGR 125 and 126. Principles of grading, cutting, identifying, pricing, and consumer evaluation of poultry, beef, pork, and lamb cuts, and related products. 2 LEC/2Lab.

**AGR 332. Poultry Production and Management. (3 Credits)**

A. Prerequisites: AGR 125 & 126. An overview of the poultry industry focused on industry trends, breeds, management, environmental impacts, bird welfare, food safety, and product quality. Students will acquire practical experience in poultry production and product evaluation. 2 Lec/2 Lab.

**AGR 340. Conservation of Agricultural Resources. (3 Credits)**

(3) A. Crosslisted as ENV 341. Prerequisite: any ENV or OHO course. Conservation of soils and their fertility, erosion and control, soil conservation methods for individual farms, water supply and distribution, problems of water and air pollution, problems resulting from the population explosion. Credit will not be awarded for both AGR 340 and ENV 341.

**AGR 345. Sustainable Agroecosystems. (3 Credits)**

A, I. Prerequisites: any course in chemistry, AGR 130, and 131; or OHO 131 and 132 or BIO 131. A comprehensive study of new technology related to crop, and pest management practices which could enhance economic returns, environmental quality, and the resource base for the short and long term.

**AGR 349. Applied Learning in Agriculture. (0.5-8 Credits)**

A. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**AGR 350. Agricultural Marketing. (3 Credits)**

A. A study of concepts, principles and practices of marketing as related to the agribusiness system. Emphasis on agricultural input, production and processing/manufacturing sectors. Includes agriculture futures commodity market theory, mechanics and practical applications.

**AGR 362. Hydraulic Systems. (2 Credits)**

A. A study of basic principles of hydraulic systems and their application to agricultural and turf equipment. Lab experiences will provide familiarity and practice with equipment. 1 Lec/2 Lab.

**AGR 372. Topics and Laboratories in Animal Sciences. (2-6 Credits)**

A. May be taken to a maximum of six hours, provided the topics are different. Lec/Lab hours will vary depending on topic.

**AGR 373. Animal Diseases. (4 Credits)**

I. Prerequisite: six hours of animal science. Lecture topics include common diseases infecting domestic animals focusing on their treatment, prevention, and eradication. Laboratory content will focus on basic lab techniques and diagnostic methods. Prior completion of AGR 376 is recommended. 3 lec/2 lab.

**AGR 374. Genetics of Livestock Improvement. (3 Credits)**

II. Prerequisite: AGR 125 and AGR 126. An introduction to Mendelian, molecular, quantitative, and population genetics. Applied genetic principles of improving farm animals including crossbreeding, inbreeding, and other mating plans. Study and practice modern genetic laboratory techniques. 2 Lec/2 Lab.

**AGR 375. Reproduction and Artificial Insemination of Domestic Animals. (4 Credits)**

A. Prerequisite: AGR 125 and AGR 126. The study of anatomical structures and physiological processes that control reproduction across species. This will include reproductive system development, spermatogenesis, female cycles, reproductive behavior, fertility, pregnancy, parturition, and lactation. Practice in artificial insemination and experience with pregnancy diagnosis in domestic animals. 3 Lec/2 Lab.

**AGR 376. Domestic Animal Anatomy. (4 Credits)**

A. Prerequisites: AGR 125 and 126. Fundamental anatomy of bones, muscles and organs of domestic animals, with a focus on comparative anatomy and how form dictates function. Practical experience with a whole-systems approach utilizing anatomical models and specimen dissections. 3 Lec/2 Lab.

**AGR 377. Livestock Behavior and Welfare. (3 Credits)**

A. Prerequisite: AGR 125 and 126. An introduction to animal behavior and its implications for animal welfare in modern animal husbandry. History of the animal welfare movement, current standards and applications in production settings will also be discussed. Students will engage in field trips and/or hands-on experiences to support learning outcomes and learn proper animal handling techniques. 2 Lec/2 Lab.

**AGR 380. Technical Management of Dairy Cattle. (4 Credits)**

I. Prerequisites: AGR 125 and 126. History, economics and nutritional importance and trends associated with the dairy industry including systems of selecting, breeding, feeding, sanitation, housing, marketing and management for financial success emphasizing both the cow and herd management. 3 Lec/2 Lab.

**AGR 381. Agriculture Structures. (3 Credits)**

I. Study the principles of planning, drawing, locating, and constructing farm livestock and materials handling facilities. Also, develop an understanding of closely related structure aspects: such as, environmental control, waste management, ventilation, and structure design. 2 Lec/2 Lab.

**AGR 383. Diesel Power Systems. (3 Credits)**

I. Study of the operation, maintenance, and repair of agricultural diesel powered systems; includes electrical systems, fuels, injection pumps, and nozzles laboratory practice. 2 Lec/2 Lab.

**AGR 404. Advanced Pest Management. (3 Credits)**

(3) II. Prerequisite: AGR 304 or OHO 304. Physical, biological, chemical, cultural, and genetic control of insects, weeds, and diseases. Specific emphasis on the science behind pest controls and use of organic and/or sustainable control methods.

**AGR 409. Agriculture Business Records and Analysis. (3 Credits)**

I. Management and analysis of record systems for decision support involving organization, enterprise selection, and operation of agricultural and horticultural businesses.

**AGR 410. Independent Study in Agriculture: \_\_\_\_\_. (1-3 Credits)**

I, II. Prerequisite: Departmental approval. Cross listed as OHO 410. Students choose a problem and work under the supervision of the instructor in the field of the problem. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken for a maximum of 6 credit hours, providing additional study projects differ. Credit will not be awarded to students who have credit for OHO 410.

**AGR 411. Senior Seminar. (1 Credit)**

I, II. Prerequisite: senior standing. Preparation of graduates to enter the job market. Students complete oral presentations, resumes, job applications, cover letters, job interviews and register with CD and P. Includes overall assessment of the graduate and department curriculum.

**AGR 416. Soil Fertility and Management. (3 Credits)**

(3) A. Prerequisite: AGR 215. Management of soils in turfgrass, vegetable and crop production. Topics include soil fertility and various soil amendments such as lime, organic and inorganic fertilizers, soil fertility programs, problem soils, and soil conservation.

**AGR 421. Animal Nutrition. (3 Credits)**

II. Prerequisite: AGR 321 or instructor approval. Principles of nutrition basic to modern livestock feeding; symptoms of nutrient deficiencies, nutritional disorders, metabolism of nutrients, feed additives, and modern methods of feed preparation and feeding.

**AGR 430. Field Crop Production. (3 Credits)**

(3). A. Prerequisite: AGR 130 and 131 or OHO 131 and 132. Advanced study of crop production theories and practices for agronomic crops. Topics include ecological, physiological and economic aspects of production of currently relevant crops.

**AGR 440. Agricultural Financing. (3 Credits)**

II. Uses and types of agricultural credit, credit institutions, and relating credit needs to farm enterprises.

**AGR 499. Agricultural Advocacy and Issues Capstone. (3 Credits)**

(3). A. Prerequisite: Junior or Senior standing. Development of critical thinking skills, debates of current issues facing agriculture, and training to become agriculture advocates.

**AGR 501. Independent Study in Agriculture: \_\_\_\_\_. (3 Credits)**

A. A course for exceptional seniors involving independent study and research related to problems of a theoretical and/or practical nature. May be retaken to a maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**AGR 509. Agriculture Research Methods and Interpretation. (3 Credits)**

I. Prerequisite: Junior or Senior standing. Explores the scientific underpinnings of modern agriculture and adaptive management, including: the scientific method, observation, experimentation, and data interpretation with an examination of fallacies that masquerade as science.

**AGR 520. Global Food Systems. (3 Credits)**

A. Prerequisite: AGR 308. A wide-ranging examination of various domestic and international food systems. The supply chain will be analyzed from field to farm gate through marketing and transportation to the consumer. Emphasis on the economics of the food supply chain.

**AGR 570. Advanced Technical Agriculture: \_\_\_\_\_. (3 Credits)**

A. Advanced study of agriculture with emphasis on updating, understanding, and developing competency in recent technology. May be retaken to a maximum of nine hours provided the topic varies.

**AGR 577. Workshop in the Conservation of Natural Resources. (3 Credits)**

A. For teachers returning for graduate work. Instruction is given in the areas of soil, water, fish and wildlife, forest conservation, and methods of teaching related units at the elementary and junior high level.

**AGR 701. Independent Study in Ag. (3 Credits)**

A. A course for graduate students involving independent study and research related to problems of a theoretical and/or practical nature. May be retaken once to a maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**AGR 709. Ag Research Mthds & Intrprtn. (3 Credits)**

I. Explores the scientific underpinnings of modern agriculture and adaptive management, including: the scientific method, observation, experimentation, and data interpretation with an examination of fallacies that masquerade as science.

**AGR 720. Global Food Systems. (3 Credits)**

A. A wide-ranging examination of various domestic and international food systems. The supply chain will be analyzed from field to farm gate through marketing and transportation to the consumer. Emphasis on the economics of the food supply chain.

**AGR 770. Advanced Technical Agriculture. (3 Credits)**

A. Advanced study of agriculture with emphasis on updating, understanding and developing competency in recent technology. May be retaken to a maximum of nine hours provided the topic varies.

**AGR 777. Wkshp Conservation of Nat Res. (3 Credits)**

A. For teachers returning for graduate work. Instruction is given in the areas of soil, water, fish and wildlife, forest conservation, and methods of teaching related units at the elementary and junior high level.

**AGR 807. Adv Tech Study in Agr Problems. (1-3 Credits)**

A. Prerequisite: advisor/department chair approval. Independent work, workshop, special topics, research problems, or seminars. May be retaken to a maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**AGR 850. Agricultural Policy. (3 Credits)**

A. An examination of agricultural policy in the US and its effects on production, food and nutrition, conservation and rural communities. Special attention is paid to the current Farm Bill.

## ANS Animal Studies (ANS)

**ANS 200. Introduction to Animal Studies. (3 Credits)**

A. A survey of the field of animal studies, focusing on animals' lives and histories, and the human experience of animals as food, as objects of entertainment, spectacle and science, as companions, and as representations.

**ANS 258. Career Development in Animal Studies. (3 Credits)**

(3) A. Prerequisite: Animal Studies majors only and at least sophomore standing. Prerequisite or Corequisite: ANS 200. The course will acquaint Animal Studies majors with various career opportunities in Animal Studies, and help students recognize and build the skills and credentials they need to gain entry into their desired career.

**ANS 310. Animals in Literature. (3 Credits)**

A. Prerequisite: ANS 200 (C) or ENG 102 or ENG 105 (B) or HON 102, or instructor approval. The course surveys the rhetorical and thematic use of animals in imaginative texts.

**ANS 320. Animals in History. (3 Credits)**

A. Prerequisite: ANS 200(C) or instructor approval. A survey of the history of animals in European and American cultures, from prehistory to the modern age. Animals are examined as food, objects of entertainment and knowledge, companions, and representations.

**ANS 349. Applied Learning in Animal Studies. (0.5-8 Credits)**

(.5-8) A. Prerequisites: ANS 200 (C) and BIO 112 (C) and ANT 120 (C) or departmental approval. Work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit. Course may be repeated for up to 16 credits total. Graded Satisfactory/Unsatisfactory.

**ANS 350. Animal Enrichment. (3 Credits)**

(3) A. Cross-Listed as PSY 350. Prerequisite: ANS 200 or PSY 200. Covers the concept and practice of animal enrichment. Students will learn about the theoretical and applied aspects of enrichment and will acquire experience designing and implementing enrichment. Credit will not be awarded to students who have credit for PSY 350.

**ANS 400. Senior Seminar. (3 Credits)**

A. Prerequisite: ANS 200 (C) and 15 hours of courses required for the ANS major. The senior seminar examines a topic in animal studies from the perspectives of application, science, and humanities. May be retaken once, provided the subject matter differs each time.

**ANS 497. Topics in Animal Studies. (3 Credits)**

A. Prerequisite: ANS 200 (C) and 9 hours of courses required for the ANS major, or instructor approval. The course examines a topic in animal studies in detail. May be retaken once, provided the subject matter differs each time.

**ANS 499. Senior Exit Course in Animal Studies. (0 Credits)**

(0) I, II. Prerequisite: 102 credit hours completed. Students will complete the Senior Exit Survey and the Senior Knowledge Exam in this course.

## ANT Anthropology (ANT)

**ANT 120. Introduction to Cultural Anthropology. (3 Credits)**

I, II. Explanation of culture and related concepts. Development of generalizations concerning social, economic, political, and ritual organization, based chiefly on comparative study of various traditional societies. Includes a brief survey of linguistics. Gen. Ed. VB, VC, or VII (SBS).

**ANT 200. Archaeology and Human Cultures. (3 Credits)**

A. Anthropology of human cultures through time and over space, using archaeological and ethnographic methods to understand the multifaceted study of cultural change. Gen. Ed. VA, VC, or VII (SBS).

**ANT 201. Introduction to Biological Anthropology. (3 Credits)**

I, II. General survey of the human biological species and its evolution, emphasizing the study of genetics, osteology, primate behavior and biology, fossil populations, and contemporary human biological variation. 2 Lec/2 Lab. Gen. Ed. E-4A.

**ANT 306. Human Evolution. (3 Credits)**

A. Prerequisite: ANT 201 or departmental approval. A detailed analysis of primate and human development emphasizing human development emphasizing the fossil evidence of the fossil evidence of human evolution.

**ANT 311. Anthropology of Religion. (3 Credits)**

A. Prerequisite: ANT 120 or 200. Anthropological exploration of religious belief systems across cultures and time. Analyzes the intersection of religion with subsistence strategies, economic systems, political systems, and gender structures. Topics include magic, witchcraft, sorcery, monotheism, polytheism, possession, and health.

**ANT 321. Historical Archaeology. (3 Credits)**

A. Prerequisite: ANT 120 or 200. This course provides an introduction to the material culture of North America's recent past. Lecture is combined with hands-on exercises using historic artifacts and documentary sources.

**ANT 330. American Indians. (3 Credits)**

A. Prerequisite: ENG 102 or 102R, 105(B), or HON 102. Explores the cultural richness and diversity of North America's First Peoples over time and geography. Topics include indigenous cultural landscapes and worldviews, treaties, reservation life, and the many continuing impacts of colonization, such as health.

**ANT 341. North American Archaeology. (3 Credits)**

A. Prerequisite: ANT 120 or ANT 200. A basic but comprehensive introduction to North American archaeology from the earliest peopling through European Contact.

**ANT 344. Applied Anthropology. (3 Credits)**

A. Prerequisite: ANT 120 or ANT 200. Comprehensive survey of applied anthropology theories, methods, and approaches. Based on extensive cross-cultural case materials, examines the historical, current, and potential applications of anthropological perspectives to social problems.

**ANT 345. Language and Culture. (3 Credits)**

A. Prerequisite: Sophomore standing. Sociocultural anthropological perspective on the study of language. Cross-cultural topics include the role of language in creating and maintaining cultural norms in gender, indigeneity, ethnicity, class and power, and race and racism.

**ANT 346. Anthropology of Food. (3 Credits)**

A. Prerequisite: ANT 120 or ANT 200 or sophomore standing. Examines food's role and impact on humankind through archaeological, biological, cultural, and linguistic anthropological perspectives. Includes issues related to environmental health, social autonomy, and food's intersection with gender, race, ethnicity, class, and indigeneity.

**ANT 355. Selected Topics in Archaeology. (1-3 Credits)**

A. Prerequisite: ANT 120 or ANT 200 or departmental approval. Topics vary. Offered occasionally. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**ANT 357. Archaeology and the Law. (3 Credits)**

A. Prerequisite: ANT 120 or ANT 200. Survey of Federal legislation for the management of cultural resources and the repatriation of human remains and other materials to descendant Native American tribes. Global heritage issues also addressed.

**ANT 360. Mesoamerica Before Cortez. (3 Credits)**

A. Prerequisite: ENG 102 or 102R, 105(B), or HON 102. Explores and compares the cultural heritage and colonial experiences of ancient and contemporary Indigenous civilizations of the western hemisphere through archaeology, ethnography, and historical sources.

**ANT 365. Selected Topics in Physical Anthropology. (1-3 Credits)**

a. Prerequisite: ANT 201 or departmental approval. Topics vary. Offered occasionally. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**ANT 370. Primate Conservation. (3 Credits)**

A. Prerequisite: ANT 201 or departmental approval. The local human and biological impact of conservation programs affecting primate communities throughout the world. Topics include forest fragmentation, historical perspectives on conservation, agroforestry, ecotourism, ethnography, and disease.

**ANT 371. Primate Ecology & Sociality. (3 Credits)**

A. Prerequisite: ANT 201 or departmental approval. Ecological relationships within primate communities. Students collect, organize, and analyze behavioral data, and examine primate social structure, habitat use, diet, locomotion, seasonality, plant-primate interactions, and predator-prey relationships.

**ANT 375. Selected Topics in Cultural Anthropology. (1-3 Credits)**

A. Prerequisite: ANT 120 or ANT 200 or departmental approval. Topics vary. Offered occasionally. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**ANT 377. Medical Anthropology. (3 Credits)**

A. ANT 120 strongly recommended. Exploration of health, healthcare, and healing cross-culturally. Through medical anthropology theory and methods, apply critical perspectives to the health status of populations, the distribution of health in societies, and health outcomes.

**ANT 380. Forensic Anthropology. (3 Credits)**

A. Prerequisite: ANT 201, ANT 385, or departmental approval. Forensic osteology and dentistry; (including demographic methods, pathology, and practical methods of collecting human physical evidence); and the role of the expert witness. 2 Lec/2 Lab.

**ANT 385. Human Osteology. (3 Credits)**

A. Prerequisite: ANT 201 or departmental approval. Analysis of individual skeletal remains, focusing on functional anatomy and bone physiology, disease and injury, and nutrition. Includes introductions to bioarchaeology, forensic anthropology, and biocultural reconstruction.

**ANT 394W. Anthropology & Wicked Problems. (3 Credits)**

A. Prerequisite: ENG 102, ENG 102R, HON 105 (B), or HON 102; and ANT 120, ANT 200, ANT 201, or ANT 330. Examines how anthropologists understand, study, interpret, and write about a complex, interdisciplinary, critically important, "wicked" problem. Instructor chooses the semester's wicked problem. Integrates professionalism and career development.

**ANT 395. History and Theory of Anthropology. (3 Credits)**

A. Prerequisites: ANT 120, ANT 200, ANT 201 and Junior standing. A capstone investigation of past and present practices and theories used to interpret data from each of anthropology's four subdisciplines. Professionalism in anthropology also integrated.

**ANT 439. Practicum in Archaeology. (3 Credits)**

A. Prerequisite and/or Corequisite: ANT 200 with a minimum grade of "B," ANT 470, or departmental approval. This course pairs senior anthropology majors with professional archaeologists for on-the-job training. Practicum options may include federal and state governments, private archaeological consultants, and anthropology museums.

**ANT 460. Bio Anthropology Field Methods. (3 Credits)**

A. Prerequisite: Minimum grade of "B" in ANT 201 or departmental approval. Learn biological anthropology field methods while conducting a research project. Collect and analyze biological anthropology data. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**ANT 470. Field Methods in Archaeology. (6 Credits)**

A. Prerequisite: ANT 200 with a minimum grade of "B," or departmental approval. A hands-on study of archaeological field methods including excavation techniques as well as some laboratory analysis of archaeological remains.

**ANT 471. Archaeological Materials Analysis. (3 Credits)**

A. Prerequisite: ANT 200 with minimum grade of "B," or departmental approval. Familiarizes students with processing, analysis, and interpretation of archaeological materials. This course has a laboratory component where students will work with archaeological materials.

**ANT 490. Independent Study in Anthropology. (1-6 Credits)**

A. Prerequisite: student must consult with the faculty supervisor have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**ANT 498. Directed Research in Anthropology. (3 Credits)**

A. Prerequisite: ANT 120, ANT 200, ANT 201, and departmental approval. A directed research experience for anthropology majors that integrates a research experience with the students' professional development and the production of a substantive deliverable product (e.g., poster or conference presentation).

## APP Appalachian Studies (APP)

**APP 200. Introduction to Appalachia. (3 Credits)**

A. An introduction to the interdisciplinary study of the Appalachian region. Special emphasis on the region's place in a national and global context, and on internal and external definitions of the region. Gen. Ed. VII and Element 5B and 6.

**APP 340. Environmental Economics. (3 Credits)**

A. Cross listed as ECO 340 and ENV 340. Prerequisite: ECO 230. Applications of basic economic analysis to a study of the environment and environmental problems. Major topics include benefit-cost analysis for environmental decision-making, the potential for market-based solutions to environmental problems, and the role and development of environmental policy. Credit will only be awarded for APP 340 or ECO 340 or ENV 340.

**APP 350. Special Topics:\_\_. (3 Credits)**

A. Exploration of particular topics not covered in the existing curriculum. May be retaken for a maximum of six hours provided the subject matter is different each time.

**APP 355. Rural Crime and Justice. (3 Credits)**

A. Cross-listed as CRJ 355. Prerequisite: APP 200 or CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Survey of rural crime and justice issues, crime trends, policing and control of rural crime with particular attention given to Kentucky and Appalachia. Credit will not be awarded for both CRJ 355 and APP 355.

**APP 360. Media Images of Appalachia. (3 Credits)**

Prerequisites: ENG 102, 105 (B), or HON 102; APP 200 recommended but not required. Explores representations of Appalachia in a variety of media including documentary and feature film, television, music, magazines, news media, advertising and marketing, and in the context of contemporary sources such as a social media. Credit will be awarded for only one of the following courses: APP 360, APP 363, SOC 363.

**APP 365. Appalachian Literature. (3 Credits)**

I. Cross listed as ENG 365. Prerequisite: ENG 102 or 105(B) or HON 102. Study of selected Appalachian artists, with emphasis on interdisciplinary, cultural, and aesthetic concerns raised in works by writers such as Arnow, Berry, and Still. Credit will not be awarded to students who have credit for: ENG 365, ENG 365W, or APP 365W. Gen. Ed. Element 3B and 6.

**APP 365W. Appalachian Literature. (3 Credits)**

(3) I. Crosslisted as ENG 365W. Prerequisite: ENG 102 or 105(B) or HON 102. Writing-intensive study of selected Appalachian artists, with emphasis on interdisciplinary, cultural, and aesthetic concerns raised in works by writers such as Arnow, Berry, and Still. Credit will not be awarded to students who have credit for ENG 365, ENG 365W or APP 365. Gen. Ed. Element 3B and 6.

**APP 366. Social Change in Appalachia. (3 Credits)**

A. Cross listed as SOC 365. Completion of SOC 131 or SOC 235 is advised before taking APP 366. Analysis of patterns of social change and development in an important area of the Southern United States, Central and Southern Appalachia. Emphasis will be placed upon competing theoretical perspectives and the importance of historical research. Credit will not be awarded to students who have credit for SOC 365.

**APP 373. Politics of Development in Appalachia. (3 Credits)**

A. Cross listed as POL 373. Prerequisite: ENG 102, 105 (B), or HON 102. This course examines community and economic development in the Appalachian region with special emphasis on Kentucky. Focus will be on the political, economic and social aspects affecting development. Credit will not be awarded to students who have credit for POL 373. Gen. Ed. E-6.

**APP 375. Appalachian Religion. (3 Credits)**

Prerequisites: ENG 102, or ENG 105 (B), or HON 102; APP 200 recommended but not required. Examines the history and diversity of Appalachian religious traditions, practices, beliefs and symbol systems and how they have influenced social order, politics, community activism, health services, leadership development, education, and environmental stewardship throughout the region. Credit will not be awarded for only one of the following courses: APP 375, APP 370, SOC 370.

**APP 420. Appalachia in U.S. History. (3 Credits)**

A. Cross listed as HIS 420. Prerequisites: ENG 102, 105 (B), HON 102; three hours HIS or department approval. The relationship between Appalachia and the rest of the United States. Topics include the yeoman myth, coal industrialization, settlement houses, company towns, and the identification of the region with poverty. Credit will not be awarded to students who have credit for HIS 420.

**APP 430. Sustainability in Appalachia. (3 Credits)**

A. Cross listed as GEO 430. Prerequisites: GEO 100, 110, 210 or 220; ENG 102 or ENG 105(B) or HON 102, and MAT 105 or higher or STA 215 or 270, or departmental approval. Examination of Appalachia's ecological, social, and economic patterns, and the processes through which residents can ensure their social, economic and ecological sustainability in the future. Credit will not be awarded to students who have credit for GEO 430 or ENV 430.

**APP 460. Seminar in Appalachian Studies. (3 Credits)**

Prerequisite: 12 hours. Appalachian Studies or instructor approval. In-depth analysis of current social, political, economic or environmental issues in the Appalachian region through a directed research project or applied service-learning field experience. Capstone course for the Appalachian Studies minor.

**APP 490. Independent Study. (1-3 Credits)**

A. Prerequisite: Student must have the independent study form/proposal approved by the faculty member and Center director prior to enrollment. May be taken for a maximum of six hours provided the subject matter is different each time.

**APP 520. Providing Health Care Services in Appalachia. (3 Credits)**

A. Cross listed as OTS 520/720. Prerequisite: departmental approval. An analysis of the development and delivery of health care services in Appalachia. Examination of relevant current and historical factors which have an impact on the health of the Appalachian people. Credit will not be awarded to students who have credit for OTS 520/720.

**APP 720. Provid Hlth Serv in Appalachia. (3 Credits)**

A. Cross listed as OTS 520/720. Prerequisite: instructor approval. An overview of development and delivery of health care services in Appalachia. Examination of relevant current and historical factors which have and impact on the health of Appalachian people. Credit will not be awarded to students who have credit for OTS 520/720.

## ARH Art History (ARH)

**ARH 392. Survey of Global Art History I. (3 Credits)**

Prerequisites: ENG 102 (C) or 105 (B) or HON 102 (C). A survey of art across world cultures from prehistory to the medieval period. Credit will not be awarded to students who have credit for ARH 392W; or ARH 390 or 390W.

**ARH 392W. Survey of Global Art History I. (3 Credits)**

Prerequisites: ENG 102 (C) or 105 (B) or HON 102 (C). A writing intensive survey of art across world cultures from prehistory to the medieval period. Credit will not be awarded to students who have credit for ARH 392; or ARH 390 or 390 W.

**ARH 393. Survey of Global Art History II. (3 Credits)**

Prerequisites: ENG 102 (C) or 105 (B) or HON 102 (C). A survey of art across world cultures from the Early Renaissance (c. 1400) to the present. Credit will not be awarded to students who have credit for ARH 393W; or ARH 391 or 391W.

**ARH 393W. Survey of Global Art History II. (3 Credits)**

Prerequisites: ENG 102 (C) or 105 (B) or HON 102 (C). A writing intensive survey of art across world cultures from the Early Renaissance (c. 1400) to the present. Credit will not be awarded to students who have completed ARJ 393; or ARH 391 or ARH 391W.

**ARH 463. Problems in Art History. (3 Credits)**

A. Prerequisite: ARH 392 or 392W and ARH 393 or 393W or departmental approval. Limited to seniors. Continuation of study begun in regular, departmental, art history courses. May be retaken to a maximum of nine hours.

**ARH 464. Renaissance and Baroque Art. (3 Credits)**

A. Prerequisite: ARH 392 or 392W or ARH 393 or 393W or departmental approval. An in-depth study of representative aspects of the painting, sculpture, and/or architecture of Europe between 1400 and 1750.

**ARH 465. History of Graphic Arts. (3 Credits)**

I, II. Prerequisite: ARH 392 or 392W or 393 or 393W or departmental approval. The history of the reproducible image in Western Art, from the introduction of printing and typography in the 15th century, through the advent of photography and the emergence of the modern graphic design profession.

**ARH 467. U.S. Architectural History. (3 Credits)**

(3) I, II. Prerequisite: HIS 202 and 203; or ARH 392 and 393. A specialized study of the history of American architecture from the beginnings of colonization in the 16th century to the late 20th century, focusing on regional and period styles and the range of typologies.

**ARH 490. Art in the Age of Revolutions. (3 Credits)**

Prerequisites: ARH 392 or 392W or 393 or 393W or departmental approval. A study of European art and culture during periods of artistic, social, and political upheavals in the first half of the nineteenth century. Credit will not be awarded for both ARH 490 and ARH 496.

**ARH 491. The Rise of Modernism. (3 Credits)**

Prerequisites: ARH 392 or 392W or 393 or 393W or departmental approval. An in-depth study of the development of modernism and the avant-garde in mid 19th- and early 20th-century Europe. Credit will not be awarded for both ARH 491 and ARH 496.

**ARH 494. Women and the Visual Arts. (3 Credits)**

Prerequisite: ARH 392 or 392W or 393 or 393W or departmental approval. A study of the roles of women in visual art and culture from various perspectives, including women as artists, patrons, and subjects in eighteenth- and nineteenth-century European art.

**ARH 495. Women and the Visual Arts. (3 Credits)**

Prerequisite: ARH 390 or ARH 390W or ARH 391 or ARH 391W or departmental approval. A study of the roles of women in visual art and culture from various perspectives, including woman as artists, patrons, and subjects in eighteenth- and nineteenth-century European art.

**ARH 497. History of Modern Art. (3 Credits)**

A. Prerequisites: ARH 392 or 392W or ARH 393 or ARH 393W or departmental approval. A specialized study of art and architecture in Europe and America from the late nineteenth to the late twentieth century.

**ARH 498. U.S. Art History. (3 Credits)**

A. Prerequisites: ARH 392 or 392W or ARH 393 or ARH 393W or departmental approval. An in-depth study of the arts of the United States of America from 1565 to 2000.

## ART Art (ART)

**ART 100. Drawing I. (3 Credits)**

I, II, A. Introduction to basic principles and techniques of drawing, emphasizing perceptual skills and the use of value and line.

**ART 152. Design, Two-Dimensional. (3 Credits)**

I, II. Introduction to the elements and principles of design as they apply to the two dimensional surface.

**ART 153. Design, Three-Dimensional. (3 Credits)**

I, II. Introduction to the methods, materials, and concepts related to the control of space.

**ART 154. Digital Media. (3 Credits)**

A. Introduction to the practice of digital media, including raster and vector graphics, 3D modeling, and time-based media relevant to contemporary art and design.

**ART 164. Concepts of Art and Design. (3 Credits)**

I, II. An introduction for Art & Design majors, providing an understanding of why art is made, how it is evaluated, and the ways in which it relates to society. Includes experience in written and oral analysis of art and design work in terms of media, composition and function.

**ART 200. Art Appreciation: Orientation. (3 Credits)**

I, II. Introduction to the visual arts and their purposes, emphasis on ways and means available to the artist. Not open to art majors or minors. Gen. Ed. Element 3A.

**ART 210. Painting I. (3 Credits)**

A. Prerequisites: ART 100, 152. Introduction to painting, emphasizing basic painting techniques and concepts, perceptual skills, and the use of color. Credit will not be awarded for both ART 210 and ART 216.

**ART 216. Painting for Non-Majors. (3 Credits)**

A. Pre-requisite: ENG 101 or departmental approval. An introduction to the craft and art of painting for non-majors, providing fundamental experiences with materials, color, mixing, paint application, directed toward both aesthetic and abstract problem-solving in the making of paintings. Credit will not be awarded to students who have credit for ART 210.

**ART 220. Sculpture Survey. (3 Credits)**

I, II. Prerequisites: ART 100, 153. Provides an introduction to basic sculpture problems, approaches, and techniques. Course problems are set in additive, substitutive, and subtractive processes.

**ART 230. Printmaking I. (3 Credits)**

A. Prerequisites: ART 100, 152. Introduction to basic concepts and techniques of printmaking. Credit will not be awarded for both ART 230 and ART 236.

**ART 236. Printmaking for Non- Art Majors. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or Departmental approval. A course emphasizing visual literacy, creative exploration, and personal expression, through printmaking. Providing fundamental experiences and expose each student to the wide variety of Printmaking, and vocabulary associated with all these techniques. Credit earned may eventually be applied to a major in Art with approval of the Department Credit will not be awarded for both ART 230 and ART 236.

**ART 240. Jewelry and Metalsmithing I. (3 Credits)**

A. Prerequisites: ART 100, 153. Provides an introduction to metal as an expressive media and acquaints students with various materials, processes and tools associated with the art form. Students explore sawing, embossing, soldering, cold-joining, basic forming, patination and simple stone setting. Credit will not be awarded for both ART 240 and ART 246.

**ART 246. Jewelry and Metal for Non-Majors. (3 Credits)**

A. Pre-requisite: ENG 101 or departmental approval. An introduction to the expressive art of jewelry and metals for non-art majors. Students execute creative projects through the exploration of various materials, techniques, and tool associated with the art form. Credit will not be awarded to students who have credit for ART 240.

**ART 280. Photo, Black and White Film. (3 Credits)**

I, II. Prerequisites: ENG 101 or ENG 101R or ART 152, or Departmental Approval. Fully Manual Camera Required. Introduction to basic manual film camera operation, film and darkroom print processing, and lighting techniques, and the principles and aesthetics of black and white photography.

**ART 290. Ceramics- Hand Building Methods. (3 Credits)**

A. Prerequisite: ART 100, ART 153. An introduction to ceramics with investigation through multiple hand-building techniques. Students will be introduced to the ceramic material studio process including clay and glaze mixing, high and low temperature firings, and studio safety procedures. Credit will not be awarded for both ART 290 and ART 376.

**ART 300. Drawing Media. (3 Credits)**

A. Prerequisite: ART 100 or ENG 101 or ENG 101R or Departmental approval. Investigation of various media for drawing, emphasizing experimentation and the development of technical skills in each.

**ART 301. Figure Drawing. (3 Credits)**

A. Prerequisite: ART 100 or ENG 101 or ENG 101R or Departmental approval.. A drawing course aimed at developing an increased understanding of the human figure and its possibilities as subject matter of art.

**ART 312. Painting II. (3 Credits)**

A. Prerequisite: ART 210 or 216 or departmental approval. Continuation of Painting emphasizing further development of skills and conceptual abilities as they relate to image-making.

**ART 313. Painting III. (3 Credits)**

A. Prerequisite: ART 210 or 216 or 312. Intermediate course in painting. Course builds on previous painting courses, providing opportunity to explore contemporary and traditional techniques, media, and subject matter.

**ART 314. Painting IV. (3 Credits)**

A. Prerequisite: ART 312 or 313, Major GPA 2.75 or above. Intermediate course in painting. Course builds on previous painting courses, providing opportunity to further explore contemporary and traditional techniques, media, and subject matter. Maximum repeatable hours: 6.

**ART 321. Sculpture Survey II. (3 Credits)**

I, II. Prerequisite: ART 220. Continuation of sculpture sequence, with basic sculptural problems set in foundry, constructive and mixed-media processes.

**ART 322. Intermediate Sculpture I. (3 Credits)**

I, II. Prerequisite: ART 321. Provides an in-depth exploration of sculptural problems at the intermediate level, developed through projects designed to fit personal interests in foundry processes.

**ART 323. Intermediate Sculpture II. (3 Credits)**

A. Prerequisite: ART 321. Provides an in-depth exploration of sculptural problems at the intermediate level, developed through projects designed to fit personal interests in figurative sculpture.

**ART 334. Traditional Printmaking. (3 Credits)**

A. Prerequisite: ART 230 or ART 236 or Departmental approval. Advanced study in printmaking as an art medium and provides opportunity for creative exploration. Research in traditional printmaking Etching, Serigraphy, Relief, Paper making and Book Arts.

**ART 335. Print Media. (3 Credits)**

A. Prerequisite: ART 230 or DES 250 or DES 256 or Departmental approval. Presentation of Print Media technology topics. Emphasis placed on exploration of media. Credit will not be award to students who have credit for ART Special Topics: Workshop in Printmaking Technology and Aesthetics.

**ART 336. Contemporary Printmaking. (3 Credits)**

A. Prerequisites: ART 230 or ART 236, Major GPA 2.75, or departmental approval. Advanced study in contemporary printmaking as an art medium with opportunity for creative exploration. Research in contemporary printmaking techniques related technologies. Maximum repeatable hours: 6, B.S. Art/Design Studio students may count a maximum of 3 credits toward major requirements. B.F.A. students may count a maximum of 6 credits toward major requirements.

**ART 341. Jewelry and Metalsmithing II. (3 Credits)**

A. Prerequisite: ART 240 or 246. An extension of the introductory course. Advanced study develops students understanding of metal as an art medium and provides opportunity for personal expression. Students explore raising, sinking, forging, casting, etching, enameling and advanced fabrication.

**ART 343. Jewelry and Metalsmithing III. (3 Credits)**

A. Prerequisite: ART 341. An advanced course emphasizing continued creative exploration and personal expression within jewelry and metalsmithing. Students explore raising, sinking, forging, casting, etching, enameling and advanced fabrication.

**ART 344. Jewelry and Metalsmithing IV. (3 Credits)**

A. Prerequisite: ART 343, Major GPA 2.75 or above. An advanced course emphasizing continued creative exploration with jewelry and metalsmithing. Advanced problems develop students' understanding of metal as an art medium and provide opportunity for personal expression. Students explore raising, sinking, forging, casting, etching, enameling and advanced fabrication. Maximum repeatable hours :6.

**ART 349A. Cooperative Study: Art. (1-8 Credits)**

Work in placements related to academic studies.

**ART 376. Ceramics for Non-Majors. (3 Credits)**

A. Prerequisite: ENG 101 or 101R. Closed to Art majors. An introduction to the craft and art of Ceramics for non-art majors, providing fundamental experiences with materials, hand building, decorating techniques, and firing directed toward both aesthetic and functional problem-solving in the making of ceramic objects. Credit earned may eventually be applied to a major in Art with approval of the Department. Credit will not be awarded for ART 376 and ART 290.

**ART 381. Photography, Color Digital. (3 Credits)**

A. Prerequisite: ENG 101 or ENG 101R or ART 152 or Departmental Approval. Fully Manual Digital Camera Required. Introduction to basic manual digital camera operation, file management, workflow, software, printing, lighting, and the principles and aesthetics of color and digital photography.

**ART 382. Photography III. (3 Credits)**

I, II. Prerequisite: ART 280 and 381. Intermediate course in photography. Builds on creative skills and techniques learned in previous photography courses. Course may cover traditional, digital or alternative processes.

**ART 383. Photography IV. (3 Credits)**

I, II. Prerequisite: ART 382. Intermediate course in photography. Builds on creative skills and techniques learned in previous photography courses. Course may cover traditional, digital or alternative processes.

**ART 391. Ceramic Wheel Forming. (3 Credits)**

A. Prerequisite: ART 270 or ART 290. Introductory course focusing on ceramic wheel forming methods that investigate the vessel as three-dimensional form. Students will be introduced to the history of ceramics as it relates to the contemporary production and design of functional objects. Students will also learn foundational ceramic material processes and studio safety procedures.

**ART 392. Ceramic Mixed Media Methods. (3 Credits)**

A. Prerequisite: ART 270 or ART 290. Intermediate course focusing on mixed media ceramic object making. Students will experiment with multiple ceramic building strategies to achieve self-directed outcomes that explore ideas, concepts, and multiple interpretations. Emphasis on experimental, mixed media, non-ceramic processes and studio safety procedures will be introduced.

**ART 401. Advanced Drawing. (3 Credits)**

A. Prerequisites: ART 300 and 301. Advanced problems in drawing emphasizing personal explorations of media and imagery.

**ART 413. Advanced Painting. (3 Credits)**

A. Prerequisites: ART 313, 314. Major GPA 3.0 2.75, Co-requisite ART499. Advanced problems in painting, emphasizing the student's personal expression through imagery and techniques. Course builds on previous painting courses, providing opportunity to explore contemporary and traditional techniques, media, and subject matter.

**ART 414. BFA Painting. (3 Credits)**

I, II. Prerequisites: ART 413, Major GPA 2.5, and admission to the BFA program. Corequisite: ART 499. Final exit course in BFA painting area with emphasis in professional development. Course includes preparation for senior show, writing of senior thesis, and portfolio assembly.

**ART 423. Advanced Sculpture. (3 Credits)**

I, II. Prerequisites: ART 322, 323, Major GPA 2.5 or above and admission to the sculpture option of BFA program or departmental approval. The students sculptural directions are defined and directed at the advanced level, through individually tailored extended projects.

**ART 424. BFA Sculpture. (3 Credits)**

I, II. Prerequisites: ART 423, Major GPA 2.5, and admission to the BFA program. Corequisite: ART 499. Final exit course in BFA sculpture area with emphasis on professional development. Course includes preparation for senior show, writing of senior thesis, and portfolio assembly.

**ART 430. Contemporary Print Media. (3 Credits)**

A. Prerequisite: ART 334 or 335 or 336, Major GPA 2.75. Co-requisite: ART499. Advanced study in Print media as an art medium with opportunity for creative exploration. Research in contemporary print media techniques, digital software and related technologies.

**ART 434. BFA Printmaking. (3 Credits)**

I, II. Prerequisites: ART 433, Major GPA 2.5, and admission to the BFA program. Corequisite: ART 499. Final exit course in BFA printmaking area with emphasis on professional development. Course includes preparation for senior show, writing of senior thesis, and portfolio assembly.

**ART 443. Jewelry and Metalsmithing V. (3 Credits)**

A. Prerequisites: ART 344, Major GPA 2.75. Co-requisite: ART499. Designed for the advanced student pursuing a career as a professional jeweler/metalsmith. Attention given to developing a personal aesthetic or design philosophy. Students will submit a work proposal for the semester and develop a cohesive body of work for exhibition.

**ART 444. BFA Jewelry and Metalsmithing. (3 Credits)**

I, II. Prerequisites: ART 443, Major GPA 2.5 and admission to the BFA program. Corequisite: ART 499. Final exit course in BFA jewelry and metal smithing area with emphasis on professional development. Course includes preparation for senior show, writing of senior thesis, and portfolio assembly.

**ART 461. Studio Art Professional Practices. (3 Credits)**

A. Prerequisite: ARH 392 or 392W or 393 or 393W or Departmental Approval. This course will survey contemporary studio art professional practice standards and provide students with the necessary tools to further their artistic careers.

**ART 463. Independent Study: Problems in Art and Design. (1-3 Credits)**

A. Prerequisite: approval of proposal by department. Limited to seniors. Continuation of study begun in regular departmental courses. May be retaken to a maximum of nine hours.

**ART 483. Photography V. (3 Credits)**

I, II. Prerequisites: ART 383 Major GPA 2.5 or above and admission to the BFA program. Corequisite: ART 499. Advanced course builds on creative skills and techniques learned in previous photography courses. Emphasizes individual expression, professional presentation and exhibition.

**ART 484. BFA Photography. (3 Credits)**

I, II. Prerequisites: ART 483, Major GPA 2.5, and admission to the BFA program. Corequisite: ART 499. Culminating experience in art photography serving to crystallize and unify individual expression. The student prepares a portfolio and written statement of personal photographic concerns.

**ART 491. Ceramic Wheel Forming 2. (3 Credits)**

A. Prerequisite: ART 371 or ART 372 or ART 376 or ART 391 or ART 472 or ART 473. Major GPA 2.75 or Departmental Approval. Advanced ceramic wheel forming course focusing on concept-driven design strategies that form a body of work unique to each student artist. Additional emphasis will be placed on student driven materials research, experimental firing techniques, and professional applications of the completed art work. Maximum repeatable hours: 6, B.S. Art/Design Studio students may count a maximum of 3 credits toward major requirements. B.F.A. students may count a maximum of 6 credits toward major requirements.

**ART 492. Ceramic Materials and Methods. (3 Credits)**

A. Prerequisite: ART 371 or ART 372 or ART 391 or ART 392 or ART 472 or ART 473 or 491, Major GPA 2.75. Co-requisite: Art 499. Advanced ceramics course focused on mold-making, slip-casting, and ceramic material testing strategies relevant to the ceramic process. Each student will address their personal approach to production and design strategies, while developing a studio practice that prepares them for a career in the arts.

**ART 499. Senior Exhibition. (0 Credits)**

A. Prerequisite: Major GPA 2.75 and last semester senior in BFA program or Departmental Approval. Organization and presentation of an exhibition of the student's work.

**ART 560. Workshop in Art and Design:\_\_\_\_. (3 Credits)**

A. Prerequisite: approval of department. Intensive study in a specific phase of the visual arts. Current processes, materials, and theoretical foundation will be considered. May be retaken with different topics to a maximum of nine hours.

**ART 563. Art Theory & Criticism Seminar. (3 Credits)**

A. Prerequisites: ARH 392 or 392W or 393 or 393W; Junior Standing. A seminar that investigates leading historical and contemporary theories and analytical methodologies that impact the ways in which art is produced, viewed, and written about today.

**ART 760. Workshop in Art & Design:\_\_\_\_. (3 Credits)**

A. Intensive study in a specific phase of the visual arts. Current processes, materials, and theoretical foundations will be considered. May be retaken with different topics to a maximum of nine hours.

**ART 763. Art Theory & Criticism Seminar. (3 Credits)**

A. Prerequisites: Departmental Approval. A seminar that investigates leading historical and contemporary theories and analytical methodologies that impact the ways in which art is produced, viewed, and written about today.

**ART 800. Drawing. (3 Credits)**

Formerly ART 821. Prerequisite: Six hours of work in drawing or consent of instructor.

**ART 810. Painting. (3 Credits)**

Formerly ART 822. Prerequisite: Six hours of work in painting or consent of instructor.

**ART 820. Sculpture. (3 Credits)**

Formerly ART 827. Prerequisite: Six hours of work in sculpture or consent of instructor.

**ART 830. Printmaking. (3 Credits)****ART 840. Jewelry and Metals. (3 Credits)**

Prerequisite: Six hours of work in jewelry and metals or instructor approval. Students may register for no more than nine hours. A graduate level course directed toward individual and professional approaches to jewelry and metalsmithing, emphasizing the student's continued development and self-expression.

**ART 863. Problems in Art & Design. (1-3 Credits)**

A. Prerequisite: Approval of proposal by department. Continuation of study begun in regular departmental courses. May be retaken to a maximum of nine hours. ART 870\* Ceramics. (3) A. ART 880\* Photography. (3) A.

**ART 870. Ceramics. (3 Credits)**

Formerly ART 829. Prerequisite: Six hours of work in ceramics or consent of instructor.

**ART 880. Photography. (3 Credits)**

Prerequisite: Six hours of work in photography or instructor approval. Students may register for no more than nine hours. A graduate level course in art photography tailored to the needs of the individual student. The level of student involvement and degree of aesthetic sophistication is to be consistent with other graduate art experiences. Development of the individual student's personal expression (style) will be stressed.

## ASL American Sign Language (ASL)

**ASL 101. American Sign Language I. (3 Credits)**

I, II. A functional notional approach to learning beginning American Sign Language (ASL). Development of basic knowledge of and understanding of conversational ASL and cultural features of the language and community. 3 Lec/ 1 Lab. Gen Ed. VIII.

**ASL 102. American Sign Language II. (3 Credits)**

I, II. Prerequisite: ASL 101 with a minimum grade of "C" or departmental permission. Continued development of basic knowledge of and understanding of conversational ASL and cultural features of the language and community. 3 Lec/ 1 Lab. Gen Ed. VIII.

**ASL 105. ASL Discourse & Depiction I. (1 Credit)**

I, II. Co- or prerequisite: ASL 101 and declaration of the Pre-Interpretation majors. Development of ASL conversational behavior, comprehension, depiction, discourse, and fingerspelling. Cultural engagement with members of the ASL linguistic minority. 1 Lec/1 Lab.

**ASL 106. ASL Discourse & Depiction II. (3 Credits)**

I, II. Prerequisite: ASL 105 with a grade of "Satisfactory". Pre- or co-requisite of ASL 102 and declaration of the Pre-Interpretation majors. Continued development of ASL conversational behavior, comprehension, depiction, discourse, and fingerspelling. Cultural engagement with members of the ASL linguistic minority. 3 Lec/1 Lab.

**ASL 201. American Sign Language III. (3 Credits)**

I, II. Prerequisite: ASL 102 with a minimum grade of  $\geq C$  or departmental permission. Development of intermediate expressive and receptive ASL skills and cultural features of the language and community. 3 Lec/1 Lab.

**ASL 202. American Sign Language IV. (3 Credits)**

I, II. Prerequisites: ASL 201 with a minimum grade of  $\geq C$  or departmental permission. Continued development of intermediate expressive and receptive ASL skills and cultural features of the language and community. 3 Lec/1 Lab.

**ASL 205. ASL Discourse & Depiction III. (2 Credits)**

I, II. Prerequisite: ASL 106 with a grade of "Satisfactory". Pre- or co-requisite of ASL 201 and declaration of the Pre-Interpretation majors. Continued development of ASL conversational behavior, comprehension, depiction, discourse, sign production, and fingerspelling. Cultural engagement with members of the ASL linguistic minority. 2 Lec/1 Lab.

**ASL 210. ASL Fingerspelling & Numbers. (3 Credits)**

I, II. Prerequisite: ASL 201 with a minimum grade of "C" or departmental permission. The course will focus on aspects of receptive and expressive fingerspelling usage, including lexicalized fingerspelling and various numbering systems within ASL.

**ASL 225. Introduction to Deaf Studies. (3 Credits)**

Introduces students to the historical, sociological, cultural and political experiences of Deaf people. Provides overview of Deaf people's experiences, images, and issues from a wide variety of disciplinary perspectives. ITP Majors and ASL Minors may not audit this course. GEN ED. E-6 [GE].

**ASL 301. American Sign Language V. (3 Credits)**

I, II. Prerequisite: ASL 202 with a minimum grade of "C" or departmental permission. Development of advanced expressive and receptive ASL skills and cultural features of the language and community. 3 Lec/1 Lab.

**ASL 302. American Sign Language VI. (3 Credits)**

II. Prerequisite: ASL 301 with a minimum grade of "C" or departmental permission. Continued development of advanced expressive and receptive ASL skills and cultural features of the language and community. 3 Lec/1 Lab.

**ASL 305. ASL Comprehension and Fluency I. (3 Credits)**

I. Prerequisite: ASL 202 with a grade of "C" or higher. Students will increase their ASL comprehension and fluency through skill-building activities. Emphasis on identifying how native ASL signers construct meaning through depictive and discursive devices.

**ASL 306. ASL Comprehension and Fluency II. (3 Credits)**

II. Prerequisites: ASL 305 with a grade of "C" or higher and admission to the interpreting program, Deaf Studies Major, or departmental approval. Students will continue to increase their ASL comprehension, flexibility, and fluency through skill-building activities. Emphasis on spontaneous expression of the depictive and discursive devices that native ASL signers use to construct meaning.

**ASL 310. Application of Fingerspelling & Number Systems. (3 Credits)**

II. Prerequisites: ASL 301 with a grade of "C" or better or departmental approval. The course will focus on aspects of receptive and expressive fingerspelling usage, including lexicalized fingerspelling and various numbering systems within ASL.

**ASL 325. Historical & Current Perspectives of Deaf Ways of Being. (3 Credits)**

I. Prerequisites: ASL 202 and 225 with a grade of "C" or higher. Historical overview of Deaf people and their contributions to society. Comparative analysis of Deaf individuals and their diverse communities from internal and external perspectives. Emphasis on practical solutions to promote social justice.

**ASL 380. Special Topics in Deaf Studies:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: ASL 225 (C). For special workshops or topics related to the field of Deaf Studies beyond the scope of regularly offered courses. May be taken to a maximum of 9 hours provided subtitle/topics vary.

**ASL 385. Independent Work in Deaf Studies. (1-3 Credits)**

A. Prerequisite: ASL 225 (C) and departmental permission. For independent work related to the field of Deaf Studies beyond the scope of regularly offered courses. May be taken to a maximum of 6 hours provided subtitle/topics vary. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ASL 390. Contrastive Analysis: ASL and English. (3 Credits)**

II. Prerequisites: ASL 301 and 305 with a grade of "C" or higher and admission to the interpreting program, Deaf Studies program, or departmental approval. The linguistic properties of ASL and English are compared and contrasted. Areas explored include phonology, prosody, morphology, syntax, discourse, and semantics. Sociolinguistic and modality differences are also examined.

**ASL 400. ASL Skills for Majors. (1 Credit)**

I. Prerequisites: Admission to the interpreting program, ASL 202, with a minimum grade of "C" and admission to the ASL and English Interpretation program, or Deaf Studies program, or departmental approval. In this course students will continue to develop skills in American Sign Language, specifically focusing on vocabulary development and language usage beneficial for interpreters. Clinical hours required.

**ASL 401. American Sign Language VII. (3 Credits)**

I,II. Prerequisite: ASL 302 with a minimum grade of "C" or departmental permission. Continued development of advanced-high language performance level in interpretive, presentational, and interpersonal communication areas. Continued cultural engagement with members of the ASL linguistic minority.

**ASL 425. Deaf Literature. (3 Credits)**

A. Prerequisite: ASL 225 (C), 202(C). Cultural and literary analysis of ASL and Deaf-related literature (major works in text, cinema, and Video) in contemporary society. Literary style, register, grammatical features, and linguistic expression will be explored in a cultural context.

**ASL 485S. Deaf Studies Capstone. (3 Credits)**

II. Prerequisites: ASL 225, 301, 325, and ITP 215W with a grade of "C" or higher and admission to the Deaf Studies program or departmental approval. Capstone course with critical analysis of a service learning field experience. Continued development of cultural and linguistic competency as a reflective practitioner. Clinical hours required.

**ASL 800. Linguistics and ASL Studies. (3 Credits)**

Overview of phonology, morphology, syntax, semantics and the use of depiction in ASL. This class uses a cross-linguistic approach, which looks at similarities and differences of spoken language, other signed languages, and ASL.

**ASL 810. Research Methods. (3 Credits)**

This course provides students with an overview of research approaches in their chosen field and the opportunity to conceptualize and plan a guided research project of their own related to their field and interests.

**ASL 815. ASL Topical Seminar. (1-3 Credits)**

Topics vary with offering. May be taken to a maximum of 9 hours provided subtitle/topics vary.

**ASL 820. Sociolinguistics & ASL Studies. (3 Credits)**

An overview and evaluation of sociolinguistics in Deaf communities including: bilingualism, language contact, variation, discourse analysis, language planning and policy, and language attitudes—synthesizing the significance and implication of sociolinguistics for language professionals.

**ASL 822. ASL Curriculum Design. (3 Credits)**

This course follows a "backward design" curricular approach. It will guide ASL teachers through the practice of identifying essential questions, exploring standards and expected outcomes, and developing assessments for those outcomes.

**ASL 824. Bimodal Language Acquisition. (3 Credits)**

Introduction to the theories and principles of language learning, with a special emphasis in learners of second languages and a particular focus on bimodal language development.

**ASL 825. Independent Study in ASL. (1-3 Credits)**

Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ASL 826. ASL Assessments & Methods. (3 Credits)**

Students explore assessment approaches that align with outcomes, and effective strategies for helping students achieve outcomes. Students will create a course, workshop, or other product that incorporates design principles with effective ASL teaching strategies and technologies.

**ASL 831. Advanced Discourse Analysis. (3 Credits)**

Prerequisite: admission into the program. Students will learn current tools and techniques of discourse analysis to explore ASL discourse topics and to analyze authentic ASL texts. This course emphasizes the analysis of broader context that contributes to the construction meaning in situated discourse events.

**ASL 833. Comparative Discourse Studies. (3 Credits)**

Students apply discourse analysis tools and techniques to effectively analyze parallel texts for comparable linguistic aspects and meaning. Findings will be applied to the interpreting field.

**ASL 837. Advanced Translation Studies. (3 Credits)**

Students will prepare and assess translations of various source texts, demonstrating the ability to analyze the source meaning and context, structures and functions; prepare a quality translation; and justify the choices made for effective translation.

**ASL 840. ASL Learning Centered Feedback. (3 Credits)**

This course builds on previous discourse courses and is designed to provide practical experience in the discipline and to prepare and apply effective, learning-centered feedback.

**ASL 850. Research in ASL Studies I. (3 Credits)****ASL 862. Practicum in Teaching ASL. (3 Credits)**

This course explores the culture of academic environments and current trends in teaching and teaching ASL, including challenges faced by ASL educators in a variety of settings. The course emphasizes development of viable approaches and solutions.

**ASL 871. Peer Mentoring in Practicum. (3 Credits)**

This course expands the exploration and application of interpretation and mentoring practices in the field of interpretation by reviewing research about mentoring and supervision.

**ASL 880. Research in ASL Studies II. (3 Credits)**

In this course students will implement their research proposal developed in Research in ASL Studies I, including data collection and analysis.

**ASL 890. Proseminar. (6 Credits)**

This course is designed to provide students with the opportunity to synthesize their experiences, complete their research projects, prepare and present their exit portfolios, and develop professional growth and development plans in their fields.

## ASO Acad Orient - Arts & Sci (ASO)

**ASO 100. Student Success Seminar. (1 Credit)**

(1) I, II. An introduction to the programs of the University and College of Arts and Sciences. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**ASO 100A. Student Success Seminar in Art. (1 Credit)**

(1) I. Prerequisite: Art majors only. An introduction to the programs of the University and College of Arts and Sciences, specifically for Art majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**ASO 100B. Student Succ Seminar in Bio. (1 Credit)**

(1) I. Prerequisite: Biology, Environmental Studies, and Wildlife Management majors only. An introduction to the programs of the University and College of Arts and Sciences, specifically for Biology majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**ASO 100C. Student Succ Seminar in Chem. (1 Credit)**

(1) I. Prerequisite: Chemistry, Forensic Science, and Pre-Professional majors only. An introduction to the programs of the University and College of Arts and Sciences, specifically for Chemistry majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**ASO 100E. Student Success Seminar in English. (1 Credit)**

(1) I. Prerequisite: English majors only. An introduction to the programs of the University and College of Arts and Sciences, specifically for English majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**ASO 100H. Student Success Seminar History, Philosophy, & Religious Studies; and Government. (1 Credit)**

(1) I. Prerequisite: History, Economics, Globalization and International Affairs, Paralegal Science, Paralegal Studies, and Political Science majors only. An introduction to the programs of the University and College of Arts and Sciences, specifically for History, Government and Economics majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**ASO 100I. Stu Succ Seminar in Com Sci. (1 Credit)**

(1) I. Prerequisite: Computer Science majors only. An introduction to the programs of the University and College of Arts and Sciences, specifically for Computer Science majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**ASO 100L. Student Success Seminar in Languages, Cultures, & Humanities. (1 Credit)****ASO 100M. Student Success Seminar in Music. (1 Credit)**

(1) I. Prerequisite: Music majors only. An introduction to the programs of the University and College of Arts and Sciences, specifically for Music majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**ASO 100S. Student Success Seminar in Anthropology, Sociology, and Social Work. (1 Credit)**

(1) I. Prerequisite: Anthropology, Sociology, and Social Work majors only. An introduction to the programs of the University and College of Arts and Sciences, specifically for Anthropology, Sociology, and Social Work majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

## AST Astronomy (AST)

**AST 130. Introductory Astronomy. (3 Credits)**

I, II. Prerequisite: MAT 105 or higher. Elementary survey course; study of Moon, Sun, and eclipses; Solar System; near stars and Milky Way. Non-laboratory. Credit will not be awarded for students who have credit for AST 135.

**AST 133. Astronomy Transition Lab. (1 Credit)**

(1) I,II. Prerequisite: AST 130 or departmental approval. A transition laboratory that will allow students with credit for AST 130 to gain credit for a laboratory science course that is equivalent to AST 135. 2 Lab. Gen. Ed. E4B [NS].

**AST 135. Introductory Astronomy. (3 Credits)**

I, II. Prerequisite: Completion of all academic readiness requirements. Conceptual survey course; topics include backyard astronomy, motion of the Moon and stars, the use of light in astronomy, telescopes, the Solar System, and the Sun. 4 Lec/Lab. Gen. Ed. E-4B.

**AST 335. Stars, Galaxies, & Cosmology. (3 Credits)**

(3) A. Prerequisite: MAT 105 or higher or STA 215 or higher or departmental approval; and ENG 102 or ENG 105(B) or HON 102. A survey course describing the origin and evolution of stars, including black holes, galaxies, and the Universe. We will demonstrate how observations, models and quantitative analysis with graphs lead to the current state of knowledge. Credit will not be awarded for both AST 335 and AST 330. 4 Lec/Lab. Gen. Ed. E-4.

## ATR Athletic Training (ATR)

**ATR 325. Applied Palpation Anatomy for Healthcare Providers. (3 Credits)**

A. Formerly ATR 225. Pre-requisite: BIO 107 or 307 with a minimum grade of "C". Co-requisite: ATR 325L. Students repeating ATR 325 must also enroll in 325L. Provide students with the opportunity to identify, differentiate and assess human musculoskeletal, nerve, and vascular body structures. This course will focus on anatomy function and assessment from the healthcare perspective. Credit will not be awarded for both ATR 225 and 325. 3 Lec.

**ATR 325L. Applied Palpation Anatomy for Healthcare Providers Lab. (1 Credit)**

A. Formerly ATR 225L. Co-requisite: ATR 325. Students repeating ATR 325L must also enroll in ATR 325. Provide students with hands on opportunity to identify, differentiate, and assess human body structures through palpation. This course will focus on musculoskeletal, nerve and vascular structures assessment for healthcare providers. Credit will not be awarded for both ATR 225L and ATR 325L. 2 Lab.

**ATR 330. Foundations of Orthopedic Evaluation. (3 Credits)**

I. Prerequisite: ATR 325, 325L and ESS 212, each with a grade of "C" or better. Students will learn how to properly evaluate common injuries of the lower and upper extremity and spine. Students will learn how to apply these techniques to various structures and pathologies across the entire human body. 3 Lec.

**ATR 340. Foundations of Rehabilitation. (2 Credits)**

A. Prerequisite: ATR 330 with a minimum grade of "C". Co-requisite: ATR 304L. Students repeating ATR 340 must also enroll in ATR 340L and the most recent grade in these two co-requisites will be applied toward student's GPA. Study and development of therapeutic exercise program design. Emphasis on understanding the interaction between healing, exercise selection and the return to function. 2 Lec.

**ATR 340L. Foundations of Rehabilitation Lab. (1 Credit)**

A. Co-requisite: ATR 304. Students repeating ATR 340L must also enroll in ATR 340 and the most recent grade in these two co-requisites will be applied toward student's GPA. Application of rehabilitation to further understand the interaction between healing, exercise selection and the return to function. 2 Lab.

**ATR 430. Foundations of Clinical Practice. (3 Credits)**

A. Prerequisite/Corequisite: ATR 340 and 340L each ATR 330 with a grade of "C" or better. Students will receive an introduction to the clinical practice of athletic training and/or physical therapy through didactic education, basic skill performance, and clinical observation; preparing them for future clinical practice.

**ATR 802. Practicum II. (3 Credits)**

A. Prerequisite: ATR 807 and 809. Provides students with the opportunity to apply clinical skills, especially related to orthopedic assessment and diagnosis. Curriculum competencies are practiced and assessed. Students complete clinical experiences, as assigned by preceptor.

**ATR 803. Practicum III. (3 Credits)**

A. Prerequisite: ATR 802. Provides students with the opportunity to apply basic clinical skills, especially related to treatment and therapy of injuries/pathologies. Curriculum competencies are practiced and assessed. Students complete a clinical experience as assigned by preceptor.

**ATR 804. Practicum IV. (1 Credit)**

A. Prerequisite: ATR 803. Provides students with the opportunity to apply advanced clinical skills. Curriculum competencies are practiced and assessed. Students complete clinical experiences, as assigned by preceptor from August 1 until the day before fall semester begins.

**ATR 805. Field Experience I in AT. (9 Credits)**

A. Prerequisite: ATR 803. Provides students with the opportunity to apply advanced clinical skills in a full immersion clinical experience. Curricular competencies are practiced and assessed. Students complete clinical experiences, as assigned by preceptor. Students are responsible for all costs associated with field experience (i.e. Transportation, housing, etc.).

**ATR 806. Field Experience II in AT. (9 Credits)**

A. Prerequisite: ATR 805. Provides students with the opportunity to apply advanced clinical skills in a full immersion clinical experience. Curricular competencies are practiced and assessed. Students complete clinical experiences, as assigned by preceptor. Students are responsible for all costs associated with field experience (i.e. Transportation, housing, etc.).

**ATR 807. Foundations of Clin Pract i. (3 Credits)**

A. Prerequisite: Admission to MS in AT. Course introduces foundational athletic training knowledge, behaviors, and clinical skills required to recognize and manage both traumatic and non-traumatic conditions in clinical practice using a systems approach.

**ATR 808. Applied Palpation Anatomy Lab. (3 Credits)**

A. Prerequisite: Admin to MS in AT. Provides hands-on opportunity to locate, explore, and compare anatomical structures through applied palpation in clinical lab. The course focuses on musculoskeletal, nerve, and vascular structures.

**ATR 809. Foundations of Clin Prat II. (3 Credits)**

A. Prerequisite: Admission to MS in AT. Course introduces foundational athletic training knowledge, behaviors, and clinical skills required to recognize and manage both traumatic and non-traumatic conditions in clinical practice using a systems approach. Continues addressing review of body systems not covered in ATR 807.

**ATR 810. Advanced Clinical Practice. (3 Credits)**

A. Prerequisite: ATR 803: Instructs students in advanced clinical skills relevant to athletic training. Classroom/lab sessions designed to provide specific instruction on curricular competencies as defined by accrediting body.

**ATR 812. Ortho Asmnt Lower Extremity. (3 Credits)**

A. Prerequisite: ATR 808. Co-requisite: ATR 812L. Assessment lower extremity/lumbar spine pathologies. Teaches proper differential diagnosis of LE/Lumbar spine pathologies. Students synthesize information from evaluations into differential diagnosis.

**ATR 812L. Ortho Asmnt Lowr Extremity Lab. (1 Credit)**

A. Prerequisite: Admin to MS in AT. Co-requisite: ATR 812. Students evaluate common injuries of the lower extremity/lumbar spine. Emphasis on practicing and demonstrating skills utilized during the evaluation process.

**ATR 813. Orthopedic Assess Up Extremity. (3 Credits)**

A. Prerequisite: ATR 808. Co-requisite: ATR 813L. Evaluation/differential diagnosis of injuries to the head, face, and upper extremity. Classroom/labs provide opportunities to master upper extremity differential diagnosis.

**ATR 813L. Orthopedic Assess Up Ext Lab. (1 Credit)**

A. Co-requisite: ATR 813. Properly evaluate common injuries of the upper extremity/cervical spine. Emphasis on practicing and demonstrating skills utilized during the evaluation process.

**ATR 815. Preventative Care in AT. (1 Credit)**

A. Prerequisite: Admission to MS in AT. Course develops skills in applying preventative care techniques used athletic training clinical practice. Preventative care includes application of taping and bracing techniques.

**ATR 830. Therapeutic Interventions I. (3 Credits)**

A. Prerequisite: ATR 812 and 813. Corequisite: 830L. Study of the scientific and foundational principles in rehabilitation. Course focuses on the integration of therapeutic modalities and exercise to improve patient function.

**ATR 830L. Therapeutic Intervent I Lab. (1 Credit)**

A. Corequisite: ATR 830. Application and integration of therapeutic modalities and exercise techniques to improve patient function.

**ATR 835. Therapeutic Interventions II. (3 Credits)**

A. Prerequisite: ATR 812 and 813. Corequisite: 835L. Study of the application of scientific and foundational principles of rehabilitation to region specific pathologies. Course focuses on the integration of therapeutic modalities and exercise in both conservative and surgical interventions addressing acute and chronic conditions.

**ATR 835L. Therapeutic Intervent II Lab. (1 Credit)**

A. Corequisite: ATR 835. Application and integration of therapeutic modalities and exercise techniques to improve patient function. Course focuses on application of techniques to address both conservative and surgical interventions for specific acute and chronic pathologies.

**ATR 842. Organization and Admin of AT. (3 Credits)**

A. Prerequisite: ATR 800. The course covers billing practices, legal liability, fiscal management, facilities operations and design, personnel supervision and hiring, public relations and organizational structures in health care organizations and systems.

**ATR 843. Seminar in AT. (2 Credits)**

A. Prerequisite ATR 830 and 835: Integration and applied life skills needed as a professional AT. Students develop comprehensive review strategy for BOC exam, explore contemporary issues and changing practice paradigms in AT.

## AVN Aviation (AVN)

**AVN 105. UAS Safety and Regulations. (3 Credits)**

This course provides an overview of small Unmanned Aircraft Systems (sUAS). Topics include the history of UAS, regulations, remote sensors, imagery equipment, industry and societal implications, career outlooks, ethical considerations, and the basic components required to operate an UAS. This course will prepare students for real-world safe operation of sUAS, and will provide basic understanding of the regulations in preparation for small Unmanned Aircraft Systems FAA 107 certification test. [CFR Part 107 are the Federal Aviation Administration regulations for the certification and operation of small Unmanned Aircraft Systems].

**AVN 150. Introduction to Aviation. (3 Credits)**

A. An introductory course specifically designed for students to obtain a broad understanding of the aviation world including varying aspects of space exploration. Includes a study of aviation history and the general aviation environment.

**AVN 161. Private Pilot- Airplane: Ground (Part 61). (4 Credits)**

A. Prerequisite: Math ACT of 22 or higher, or math placement score equivalent to Math 098 or higher, or MAT 098 or above with a grade of "C" or better. Provides aeronautical knowledge and 5 hours flight simulation necessary to prepare student pilots to successfully complete FAA Private Pilot-Airplane written examination.

**AVN 161A. Private Pilot- Airplane (Part 61): Flight I. (1 Credit)**

A. Prerequisite or Corequisite: AVN 161 with "C" grade or better and overall 2.0 GPA. Students receive dual and/or initial solo flight instruction as part of the FAA private pilot SEL certification using FAA part 61 Rules.

**AVN 162A. Private Pilot- Airplane (Part 61): Flight II. (1 Credit)**

Prerequisite: Dept. approval (i.e student must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Students receive remaining flight hours as part of the curriculum leading to FAA private pilot SEL certification using FAA part 61 rules.

**AVN 170. Introduction to Unmanned Aircraft Systems. (3 Credits)**

(3) A. This course provides an introduction to Unmanned Aircraft Systems (UAS). A history of UAS, typical applications and an overview of regulations, airframe and powerplant systems, sensors, ground control stations, airspace, weather, and other foundational skills needed to safely operate UAS in the U.S. airspace systems will be covered.

**AVN 192. Private Pilot- SEL: Ground. (4 Credits)**

A. Provides aeronautical knowledge and 5 hours flight simulation necessary to prepare student pilots to successfully complete FAA Private Pilot written examination.

**AVN 192A. Private Pilot-SEL: Flight I. (1 Credit)**

A. Prerequisite or corequisite: AVN 192 with "C" or better and overall 2.0 GPA. Students receive solo and/or dual flight hour instruction as part of the private pilot SEL certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 193A. Private Pilot- SEL: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive remaining flight hours leading to FAA private pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 194A. Private Pilot: Flight. (1 Credit)**

A. Prerequisite or Corequisite: AVN 192 with a grade of C or better, and an overall GPA of 2.0. This course consists of the dual and solo flight hours and experiences required for the private pilot certification with the Federal Aviation Administration.

**AVN 195. Pvt Pilot-Heli:Grnd(R-22/R-44). (4 Credits)**

A. Prerequisite: Math ACT of 22 or higher or place in math placement test at Math 098 or higher with "C" grade or higher. Provides aeronautical knowledge and 5 hours flight simulation necessary to prepare student pilots to successfully complete FAA Private Pilot-Helicopter written examination.

**AVN 195A. Pvt Pilot-Heli: Flight I(R-22). (1 Credit)**

A. Prerequisite or Co-requisite: AVN 195 with "B" grade or better and overall 2.0 GPA. First Robinson 22 Helicopter flight lab for pilots weighing less than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 196A. Pvt Plt-Heli:Flight II(R-22). (1 Credit)**

(1) A. Prerequisite: AVN 195A with "S" grade and overall 2.0 GPA. Second Robinson 22 Helicopter flight lab for pilots weighing less than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 197A. Pvt Plt-Heli:Flight III(R-22). (1 Credit)**

(1) A. Prerequisite: AVN 196A with "S" grade and overall 2.0 GPA. Third Robinson 22 Helicopter flight lab for pilots weighing less than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 198A. Pvt Plt-Heli:Flight I(R-44). (1 Credit)**

(1) A. Prerequisite; corequisite: AVN 195 with "B" grade or better and overall 2.0 GPA. First Robinson 44 Helicopter flight lab for pilots weighing more than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 199A. Pvt Plt-Heli:Flight II(R-44). (1 Credit)**

(1) A. Prerequisite: AVN 198A with "S" grade and overall 2.0 GPA. Second Robinson 44 Helicopter flight lab for pilots weighing more than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 200A. Pvt Plt-Heli:Flight III(R-44). (1 Credit)**

(1) A. Prerequisite: AVN 199A with "S" grade and overall 2.0 GPA. Third Robinson 44 Helicopter flight lab for pilots weighing more than 185 pounds leading to FAA private pilot helicopter certification using FAA-approved Part 141 flight training syllabus (Lab).

**AVN 205A. Inter Supervised Flight I. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. This course is designed to permit students holding the private pilot license to acquire additional supervised flight time. This course includes approximately 24 flight hours.

**AVN 206A. Inter Supervised Flight II. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. This course is designed to permit students holding the private pilot license to acquire additional supervised flight time. This course includes approximately 24 flight hours.

**AVN 220. Instrument Pilot: Ground. (4 Credits)**

A. Prerequisites: AVN 161A or AVN 192A and an overall 2.0 GPA. Provides aeronautical knowledge necessary to prepare student pilots to successfully complete the FAA Instrument Pilot written examination. 3 Lec/2 Lab.

**AVN 220A. Instrument Pilot: Flight. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. A course designed to permit the student to gain instrument flight training.

**AVN 221A. Instrument Pilot: Flight I. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs.). Students receive flight and simulator hours leading to the FAA instrument pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 222A. Instrument Pilot: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Students receive remaining flight hours leading to the FAA instrument pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 225. Instrument Pilot-Heli: Ground. (4 Credits)**

A. Prerequisite: AVN 197A or 200A with "S" grade and overall 2.0 GPA. Provides aeronautical knowledge and 20 hours flight simulation necessary to prepare student pilots to successfully complete the FAA Instrument Helicopter Pilot written examination. 3 Lec/2 Lab.

**AVN 225A. Instrmnt Pilot: Heli Flight I. (1 Credit)**

(1) A. Prerequisite or corequisite: AVN 225 with "B" grade or better, prerequisite 197A or AVN 200A with "S" grade, and overall 2.0 GPA. First Robinson R-44 flight lab leading to the FAA instrument helicopter pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 226A. Instrmnt Pilot: Heli Flight II. (1 Credit)**

(1) A. Prerequisite: AVN 225A with "S" grade, and overall 2.0 GPA. Second Robinson R-44 helicopter flight lab leading to the FAA instrument helicopter pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 229A. Advanced Supervised Flight I. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. This course is designed to provide students flight training and experience for FAA Commercial Pilot License.

**AVN 230A. Advanced Supervised Flight II. (1 Credit)**

A. Prerequisites: departmental approval and an overall GPA of 2.0. This course is designed to provide students flight training and experience for FAA Commercial Pilot License.

**AVN 231A. Instrument Pilot- MEL: Flight I. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student receives MEL flight hours leading to the FAA instrument pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 232A. Instrument Pilot- MEL: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student receives remaining MEL flight hours leading to the FAA instrument pilot certification using FAA-approved Part 141 flight training syllabus.

**AVN 250. Air Transportation. (3 Credits)**

A. Prerequisite AVN 150. A survey of the historical development of the air transportation system covering facilities, impact of regulations, problems encountered, and future requirements. Formerly AVN 350.

**AVN 280. Glass Cockpit Technology. (1 Credit)**

A. Prerequisite: AVN 220. Course provides instruction in operation of the Garmin G1000 glass cockpit to prepare students for operation of a G1000-equipped airplane in the Commercial Pilot Syllabus. Course includes 3 hours in a Garmin G1000 training device.

**AVN 290. UAS Flight Operations. (3 Credits)**

This course covers the techniques and best practices required to safely and successfully utilize and operate drones for commercial purposes. Every aspect of flight operation is covered, from equipment, preflight planning and legal compliance to operational procedures, flight training, and data collection. Students work through the entire mission cycle, starting with legal compliance, planning, and then pre and post flight operations. Students will gain hands-on experience using the drone flight simulators in the Drone Lab. In-class simulation training is to prepare them for an outdoor real flight experience.

**AVN 300. Commercial Pilot: Ground. (2 Credits)**

A. Prerequisites: AVN 221A. Provides aeronautical knowledge to prepare student pilots to successfully complete FAA Commercial Pilot written examination.

**AVN 300A. Commercial Pilot: Flight. (1 Credit)**

A. Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). The course consists of all or part of the dual and solo flight hours required for FAA commercial pilot certification.

**AVN 301A. Commercial Pilot- SEL: Flight I. (2 Credits)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive 32 dual and solo flight hours as part of the curriculum leading to the FAA commercial pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 302A. Commercial Pilot- SEL: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive additional dual and solo flight hours as part of the FAA commercial pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 303A. Commercial Pilot- SEL: Flight III. (1 Credit)**

A. Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs.) Student will fly additional dual and solo flight hours as part of the FAA commercial pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 304A. Commercial Pilot- SEL: Flight IV. (2 Credits)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will fly remaining dual and solo hours flight hours as part of the curriculum leading to the FAA commercial pilot SEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 305. Multi- Engine Pilot (MEL): Ground. (1 Credit)**

A. Prerequisite: AVN 301A. Provides multi-engine aeronautical knowledge to facilitate successful completion of multi-engine practical examination.

**AVN 305A. Multi- Engine: Flight. (1 Credit)**

A. Prerequisite: AVN 304A. Student will complete the multi-engine land (MEL) flight training required to earn the FAA (MEL) pilot certification.

**AVN 310. UAS Ground/Flight Operations. (3 Credits)**

This course instructs the student in the mission planning, preflight, ground control, mission execution, and data analysis of UAS specific missions such as, Agriculture, Power/Wind Turbine/Railroad/Pipeline Inspections, Infrastructure Security, and other mission types as required.

**AVN 310A. Flight Training Techniques I. (1 Credit)**

A. Prerequisites: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Flight training to prepare students for FAA examinations.

**AVN 312. UAS Commercial Single/Multi En. (3 Credits)**

This course instructs the student in the mission planning, preflight, ground control, mission execution, and data analysis of UAS specific missions such as, Search & Rescue, Geosciences, Environmental, Anti-Poaching, Homeland Security, Videography, Construction, and Surveying.

**AVN 315. Aviation Safety Programs. (3 Credits)**

I, II. A. Prerequisite: AVN 150 or 30 credit hours. A presentation of factors, procedures, and aircraft accident investigation case studies relating to aviation safety, including risk management assessment, hazard identification analysis, safety programs-development-called Safety Management Systems (SMS) by the Federal Aviation Administration, and evaluation of outcomes.

**AVN 320. Flight Training Analysis II. (2 Credits)**

A. Prerequisite: appropriate flight credentials. A study of aeronautical information and instructional background necessary for becoming instrument flight instructors. Included in the course is teaching methodology, instrument interpretations, and instrument flight procedures.

**AVN 320A. Flight Training Techniques II. (1 Credit)**

A. Prerequisites: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Flight training to prepare students for FAA examinations.

**AVN 325. Aircraft Systems. (3 Credits)**

I,II. Prerequisite AVN 150. A study of electrical, mechanical and hydraulic systems, design and performance standards, capabilities and limitations, and conformance to FAA specifications.

**AVN 329W. Aviation Human Factors. (3 Credits)**

(3) A Prerequisites: AVN 315. ENG 102 or 102R, 105(B), or HON 102. A study of human factors that affect and influence behavior, with application to aviation safety and its connection to all disciplines within the aviation industry.

**AVN 330. Crew Resource Management. (3 Credits)**

(3) A. Prerequisite: AVN 315 and 329W. A survey of crew resource management history and development in commercial aviation with emphasis on the myriad factors that influence crew interaction and performance.

**AVN 331A. Commercial Pilot- MEL: Flight I. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student receives initial dual flight hours as part of the FAA commercial pilot MEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 332A. Commercial Pilot- MEL: Flight II. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student CRM time building flight hours leading to the FAA commercial pilot MEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 333A. Commercial Pilot- MEL: Flight III. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student CRM time building flight hours leading to the FAA commercial pilot MEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 334A. Commercial Pilot- MEL: Flight IV. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student CRM time building flight hours and ten PDPIC dual flight hours leading to the FAA commercial pilot MEL certification using FAA-approved Part 141 flight training syllabus.

**AVN 335. Weather Reporting/Analysis. (3 Credits)**

I, II. Prerequisite: PHY 101 or higher. A comprehensive analysis of weather conditions and patterns as they apply to flight.

**AVN 340. Airport Management I: Operations and Security. (3 Credits)**

I, II. Prerequisite AVN 150. An in-depth overview of airport operational issues, unmanned systems integration, air traffic control issues, safety, security, and planning.

**AVN 341. Airport Management II: Planning and Administration. (3 Credits)**

(3). I, II. Prerequisite AVN 340. An in-depth overview of airport administration, finance, marketing, airfield design, planning, construction, air service development, and community relations.

**AVN 349. Cooperative Study: Aviation. (0.5-8 Credits)**

A. Prerequisite: coordinator approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours work required for each academic credit.

**AVN 350. Air Transportation. (3 Credits)**

A. A survey of the historical development of the air transportation system covering facilities, impact of regulations, problems encountered, and future requirements.

**AVN 360. General Aviation Management. (3 Credits)**

I, II. Prerequisite AVN 150. Designed to provide students with an understanding of an airport Fixed Base Operator's role and also of Aviation Service Businesses in the aviation industry, to include managerial and operational problems.

**AVN 370. Aviation Supervision and Leadership. (3 Credits)**

I, II. Prerequisite: AVN 150. A study of effective supervisory and leadership techniques, with application to practical situations in the aviation industry.

**AVN 390. Aviation Decision Making. (3 Credits)**

A. Prerequisite AVN 150. A study of decision theory and its application to aviation decision-making and problem solving.

**AVN 399. Aviation Prof Skills Seminar. (0 Credits)**

I, II. Required of all Aviation students who have earned at least 60 hours. Credit (CR) will be given when students have attended and/or completed department-sponsored activities regarding professional skills and careers.

**AVN 400. Multi-Engine Pilot: Ground. (1 Credit)**

A. Prerequisite: appropriate flight credentials. The course is designed to provide appropriate aeronautical knowledge about multi-engine aircraft to facilitate successful completion of the multi-engine flight component.

**AVN 400A. Multi-Engine Pilot: Flight. (1 Credit)**

A. Prerequisites: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). A one hour laboratory course integrated with AVN 400 consisting of the dual and solo flight hours required for FAA certification.

**AVN 401. Airline Management. (3 Credits)**

A. Prerequisite: AVN 250 or AVN 350 and junior standing (at least 60 hours). Acquaint student with the development, administrative and operational factors peculiar to FAR Part 121 Airline Operations. Emphasis is placed on proper market analysis, financial matters, the company plan, aircraft selection, aircraft acquisition, route structure, timetable and pertinent regulatory requirements.

**AVN 402. Corporate and Business Aviation. (3 Credits)**

A. Prerequisite AVN 250 or 350 and junior standing (at least 60 hours). The study of the operation of a corporate flight department. Course includes the value of management mobility, aircraft and equipment evaluation, maintenance, flight operations, administration and fiscal considerations.

**AVN 410. Air Traffic Control. (3 Credits)**

I, II. Prerequisite AVN 250 or 350 and junior standing (at least 60 hours). A study of the national air traffic control system with emphasis on basic air traffic control procedures; the role of centers, approach control, towers, and flight service centers; communications; navigation procedures, radar operations, facilities.

**AVN 412. Counter UAS Operations. (3 Credits)**

Course is designed to educate and explore the emerging threat of unmanned aircraft systems to the nation's airspace and infrastructure. This course will be divided into four sections (overview, detect, identify and defeat), to cover all current and future lines of effort in a unified approach to counter UAS.

**AVN 415. Instructor Pilot- SEL: Ground. (3 Credits)**

A. Prerequisite: AVN 161, AVN 220, and AVN 300 with "C" grade or better and overall 2.0 GPA. Prepares student pilots for the FAA Certified Flight Instructor (CFI) & Fundamentals of Instruction (FOI) written exams.

**AVN 415A. Instructor Pilot- SEL: Flight. (1 Credit)**

A. Prerequisite: AVN 304A with "S" grade. Prerequisite or corequisite: AVN 415 with "C" or higher, and overall 2.0 GPA. Fifteen dual flight hours and 5 hours flight simulation leading to the FAA instructor pilot (SEL) certification using FAA-approved Part 141 flight training syllabus.

**AVN 416A. Instructor and Commercial Pilot- SEL: Flight. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive dual flight hours and simulation hours leading to the FAA Instructor Pilot (IP) SEL and Commercial Pilot-SEL certifications using FAA-approved Part 141 flight training syllabus.

**AVN 420. Flight Training Analysis III. (2 Credits)**

A. Prerequisite: appropriate flight credentials. Principles and methodology of teaching multi-engine flight and includes ground instruction required by the FAA in preparation for a flight instructor multi-engine rating.

**AVN 420A. Flight Training Techniques III. (1 Credit)**

A. Prerequisites: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Flight preparation for FAA CFI Multi-Engine flight test.

**AVN 421. Instrument and Multi-Engine IP: Ground. (2 Credits)**

A. Prerequisite: AVN 415 with "C" grade or better and overall 2.0 GPA or an Instructor Pilot-SEL rating. Provides study of aeronautical information for becoming instrument and multi-engine flight instructor, and preparation for FAA Instrument Instructor written.

**AVN 421A. Instrument and Multi-Engine IP: Flight. (1 Credit)**

A. Prerequisite Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive required flight hours and simulation hours leading to the FAA Instrument Instructor Pilot (IP) SEL rating using FAA-approved Part 141 flight training syllabus.

**AVN 422A. Commercial and Instructor Pilot-MEL: Flight. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive required dual flight hours and simulation hours leading to the FAA commercial multi-engine add-on and multi-engine instructor ratings using FAA-approved Part 141 flight training syllabus.

**AVN 423A. Instructor Pilot--Multi-Engine: Flight. (1 Credit)**

A. Prerequisite: Dept. approval (i.e. students must make satisfactory flight progress, as determined by the Aviation Coordinator, before being allowed to register into subsequent AVN flight labs). Student will receive additional dual flight hours and simulation hours leading to the FAA Multi-Engine instructor rating using FAA-approved Part 141 flight training syllabus.

**AVN 425. Applied Aerodynamics. (3 Credits)**

A. Prerequisite: PHY 101. Applied theories of flight and flight factors, including a study of the principles of performance, stability and control, and operational data.

**AVN 435. Turbine Aircraft Systems. (3 Credits)**

A. Prerequisite: AVN 325 with a "C" or better or instructor approval. A study of the functioning theory and integral components of gas turbine (jet) engines. Additionally, provides a study of electrical, mechanical and hydraulic systems as they relate to turbine engine aircraft.

**AVN 460. Aviation Law. (3 Credits)**

I, II. Prerequisite: AVN 250 or 350 and junior standing (at least 60 hours). A study of civil law as it pertains to aviation and includes the historic development of United States and international aviation law while surveying governmental responsibility for aviation accidents.

**AVN 467. Comprehensive Exam for BS in Aviation. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration in AVN 467 is required of all undergraduate B.S. (Aviation) students for the term in which they wish to take their comprehensive examination, including the exit exam and advisor approved certification or license.

**AVN 470. National Air Space System. (3 Credits)**

A. An overview of the National Air Space System with emphasis on problems of implementation, safety considerations, and social/economic impact.

**AVN 480. Glass Flight Deck Technologies. (1 Credit)**

(1) A. Prerequisite: AVN 222A or AVN 232A and AVN 330. Provides an integrated approach to the theory, technology, and operations of "Glass" flight deck technologies to prepare student pilots to successfully operate "glass" flight deck aircraft. Course includes 5 hours in "Glass" capable AATD flight simulator.

**AVN 490. Airline Flight Operations. (3 Credits)**

A. Prerequisite(s): AVN 330, 435, and 480. Provides an academic and AATD flight simulation-based transition from the general aviation reciprocal engine flight operations at 130 KIAS to airline turbojet flight operations at 350 KIAS or faster. Actual airline flight operations, to include flight deck flows and checklist usage will be introduced. Student pilots will fly 10 hours of AATD jet transition flight simulation as a 2 person crew. 2 Lec/2 lab.

**AVN 495. Internship. (1-3 Credits)**

Prerequisite: departmental approval. Students will work under departmental supervision in a private or public agency engaged in aviation activities.

**AVN 498. Independent Study. (1-3 Credits)**

A. Prerequisite: AVN major with senior standing. Student must have the independent study proposal form approved by faculty supervisor and program coordinator prior to enrollment. May be retaken to a maximum of six hours.

**AVN 499. Aviation Careers Seminar. (0 Credits)**

II. Prerequisite: AVN 399 or BTS 300. Required of all Aviation students who have earned at least 90 hours. Credit (CR) will be given when students have attended the annual Aviation Career Day and completed all related assignments.

## BEM Broadcasting & Electronics (BEM)

**BEM 200. Mass Media and Society. (3 Credits)**

I, II. Formerly COM 200. Introduction to mass media issues. Analyzes mass media impact on social, political and economic sectors of American and world societies. Considers issues and trends, including ethics, legal controls, violence and censorship. Credit will not be awarded to students with credit for: BEM 200W, COM 200, COM 200W. Gen. Ed. E-5B [SB].

**BEM 200W. Mass Media and Society. (3 Credits)**

I, II. Formerly COM 200W. Prerequisites: ENG 102, or ENG 105(B), or HON 102. Introduction to mass media issues. Analyzes mass media impact on social, political and economic sectors of American and world societies. Considers issues and trends, including ethics, legal controls, violence and censorship. Credit will not be awarded to students who have credit for: BEM 200, COM 200, COM 200W. Gen. Ed. E-5B [SB].

**BEM 202. Information Gathering. (3 Credits)**

A. A survey of research strategies and methods for locating, analyzing, and managing information from a variety of sources through use of the core techniques of making observations, conducting interviews and accessing documents from government agencies, archives, popular press and web-based sources.

**BEM 203. Introduction to Media Writing. (3 Credits)**

A. Prerequisites: ENG 102 or 105(B) or HON 102. Study of the coverage of news for all types of media. Developing writing skills for broadcast, electronic, and print media distribution platforms including television, radio, podcasts, Internet news sites, newspapers, magazines, and social media. Credit will not be awarded for both BEM 203 and COM 201.

**BEM 295. Video Production. (4 Credits)**

I, II. Training in non-studio video production and editing. Includes applied aesthetics and production of dramatic informational or experimental work on video. Introduction to techniques, styles, and image structure. Requires weekly projects, critiques. 3 Lec/3 Lab.

**BEM 300. Performance in Electronic. (3 Credits)**

Prerequisite: CMS 210. Study of the announcer's role in electronic media. Stresses practice in performing areas, including radio and television production, microphone and television camera techniques with an added emphasis on phonetics and pronunciation.

**BEM 301. Multimedia Newswriting. (3 Credits)**

A. Prerequisites: BEM 203. Students will critically evaluate, then write and produce multimedia stories, learning to combine online text, audio, and video. Students will learn journalistic interviewing techniques and research strategies, and be able to differentiate amongst news, feature, and opinion writing genres. Credit will not be awarded for both BEM 301 and COM 301.

**BEM 302. Journalism Practicum. (1 Credit)**

I, II. Formerly JOU 302. Prerequisites: BEM 203. Supervised practical experience in a journalistic operation. Students are required to take a total of three credits for the major. Students may take one credit per semester. Course may be repeated for a total of 8 credits.

**BEM 305W. Storytelling & Feature Writing. (3 Credits)**

I, II. Prerequisite: BEM 203 or departmental approval. Create feature stories for multimedia platforms that blend journalism and art. Explore the dual nature of interactive features, including written forms and podcasting, based on facts but with the voice of a novel. Credit will only be awarded for one course: BEM 305W or JOU 305 or JOU 305W.

**BEM 320. Digital Publishing Design. (3 Credits)**

I, II. Prerequisite: BEM 200. An introduction to the fundamental tools of digital publication design. Subjects covered include photography, typography, publication best practices, digital image toning and compositing, masking, digital magazine layout, color theory, and press reproduction. Credit will only be awarded for one course: BEM 320, JOU 320 or PUB 320.

**BEM 325. Photojournalism. (3 Credits)**

I, II. Formerly JOU 325. Prerequisites: ENG 102 or 105(B) or HON 102. Examines principles of digital photography, stressing hands-on skills in producing professional quality images. Looks at role the photojournalist serves. Provides an introduction to color correction in Photoshop. Credit will not be awarded for both BEM 325 and JOU 325.

**BEM 330. Sports Writing and Reporting. (3 Credits)**

I, II. Formerly COM 330. Prerequisites: ENG 102 or 105(B) or HON 102. Writing and producing of game, feature and interview stories for print and broadcast. Includes play by play, sports commentary and analysis. Credit will not be awarded for both COM 330 and BEM 330.

**BEM 343. Audio Practicum. (1-3 Credits)**

I, II. Prerequisite: BEM 295. Supervised practical experience on the staff of a radio or other audio facility. May be taken to a maximum of three hours. One hour may be counted toward the major.

**BEM 349. Applied Learning in Broadcasting. (0.5-8 Credits)**

A. Prerequisites: junior standing, 2.0 average in all courses within the department, and departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**BEM 349A. Cooperative Study: Broadcasting and the Electronic Media. (0.5-8 Credits)**

A. Prerequisites: junior standing, 2.0 average in all courses within the department, and departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**BEM 349B. Cooperative Study: Broadcasting and the Electronic Media. (0.5-8 Credits)****BEM 349C. Cooperative Study: Broadcasting and the Electronic Media. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies. May not satisfy major or minor requirements within the department.

**BEM 349D. Cooperative Study: Broadcasting and the Electronic Media. (0.5-8 Credits)****BEM 350. Cinema History I. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105(B) or HON 102. Historical survey of cinema from its origins to 1939. Examines developments in directing, acting, editing, and other areas of cinema as an art form. Feature length and short films viewed. Gen. Ed. VII (AH). 2 Lec/2 Lab.

**BEM 351. Cinema History II. (3 Credits)**

A. Historical survey from 1939 to present. Includes theories, styles, and critical positions related to the sound film and considers origins and implications for future directions. Feature length and short films viewed. Gen. Ed. VII (AH). 2 Lec/2 Lab.

**BEM 352. Film Techniques & Technology. (3 Credits)**

I. Prerequisite and/or Corequisite: BEM 350 or 351. The study of various technologies employed in traditional/electronic film production. Emphasis on the study of social, economic, technological and political factors and their effects on the development of cinematic techniques.

**BEM 353W. The Art and Craft of Screenwriting. (3 Credits)**

A. Prerequisite: ENG 101 and 102 ( or 105 (B)) or HON 102. Conceiving, structuring, writing and marketing the contemporary American screenplay. Requires developing and writing original screenplays for marketing in the contemporary film environment. Credit will not be awarded for both BEM 353W and BEM 353.

**BEM 357. Sound Design for Film and Video. (3 Credits)**

A. Prerequisite: BEM 200. Training in audio mixing and sound design for narrative films and other types of video projects. Introduction to industry standard audio software and post-production sound techniques and principles.

**BEM 360. Advanced Lighting Techniques. (4 Credits)**

(4) II. Prerequisite: BEM 295. An examination of advanced lighting techniques for film and television production. Stresses the technical considerations and aesthetics of lighting through analytical and hands-on applications of lighting and film/electronic cinematography. 3 Lec/ 1 Lab.

**BEM 370. Electronic Cinema Production. (4 Credits)**

I, II. Prerequisite: BEM 295(C) and BEM 352(C). Principles and procedures behind single-camera dramatic productions recorded and edited on videotape. Requires group and individual portfolio projects involving a critical and artistic understanding of sound-image relationships. Includes multi camera production, directing and producing. 3 Lec/3 Lab.

**BEM 373. Electronic Cinema Practicum. (1-3 Credits)**

I, II. Prerequisite: BEM 295. Supervised practical experience in film making, editing, and other aspects of film-style production. May be retaken to a maximum of three hours.

**BEM 395. Video Production II. (4 Credits)**

I, II. Prerequisite: BEM 295. Training on and mastery of advanced production and post production equipment. Requires group and individual portfolio projects involving a critical and artistic understanding of sound-image relationships. Includes multi camera production, directing and producing.

**BEM 396. Motion Graphics. (3 Credits)**

(3) I, II. Prerequisite: BEM 295. Training on industry standard motion graphics software used for post-production design and editing. The course examines visual effects and multimedia, covering techniques needed to improve students' command of motion graphics in video production.

**BEM 398. Electronic Video Practicum. (1-3 Credits)**

I, II. Prerequisite: BEM 295. Supervised practical experience on the staff of a television station or other video facility. May be taken to a maximum of three hours. One hour may be counted toward the major.

**BEM 400. Studies in Electronic Media. (1-4 Credits)**

A. Prerequisite: departmental approval. Study of specific areas of media through a course examining timely or topical concerns in the field. Specific topic included in schedule. May be retaken to maximum of nine hours.

**BEM 401. Multimedia Field Production. (3 Credits)**

A. Prerequisites: BEM 295. Students will apply their cumulative skills to design and produce semester-long, individual or team multimedia projects that will engage news consumers in carefully assembled amalgamation of text, audio, video, photos, interactive graphics.

**BEM 402. Advanced Broadcast News. (3 Credits)**

A. Prerequisite: BEM 401. Advanced study in broadcast journalism. Planning, gathering, writing, editing and producing news for television; critical evaluation of broadcast news techniques; individual and team projects.

**BEM 405. Media Law. (3 Credits)**

A. Formerly COM 405. Prerequisite: BEM 200 or 200W or COM 200 or COM 200W or department approval. Examination of First Amendment rights and free expression philosophies that impact multimedia platforms, including access to information and public spaces, copyright, fair use, libel, slander, privacy, free press/fair trial, obscenity, and commercial speech regulation. Credit will not be awarded for both BEM 405 and COM 405.

**BEM 412. Multimedia Web Development. (3 Credits)**

I, II. Formerly JOU 412. Prerequisite: PUB 320 (C) or JOU 320 (C) or BEM 320 (C). An introduction to website design, HTML and CSS. Subjects covered include organizing web content, web hosting, the languages of HTML and CSS, digital image preparation and deployment, browser development tools, Javascript libraries (jQuery), and best practices for coding and deploying multimedia online. Credit will not be awarded to students who have credit for JOU 412 or PUB 412.

**BEM 415. Media Ethics. (3 Credits)**

A. Formerly COM 415. Prerequisite: BEM 200 or 200W or COM 200 or 200W. Examination of ethical standards and practices of the mass media. Includes development of ethical decision-making skills. Credit will not be awarded for both BEM 315 and COM 415.

**BEM 425. Electronic Media Operations. (3 Credits)**

A. Prerequisite: BEM 200 or 200W or COM 200 or COM 200W. Study of the issues that impact managing, programming and operating a media enterprise, including federal regulations.

**BEM 445. Broadcast and Cable Promotion. (3 Credits)**

I, II. Formerly COM 445. Prerequisite: BEM 295. Study of broadcast and/or cable promotion in the areas of writing, production, marketing, and public relations. Includes exercises in promotions. Credit will not be awarded for both BEM 445 and COM 445.

**BEM 453. Advanced Screenwriting. (3 Credits)**

(3) I, II. Prerequisites: BEM 353W or departmental approval. Writing and marketing the screenplay for television and film. Emphasis is placed on structuring and composing the screenplay for advanced writers. Open to all majors.

**BEM 460. Advanced Film Genre:\_\_\_\_. (3 Credits)**

I, II. Detailed study of the types of motion pictures. Requires independent research, extended analysis, and critical evaluation of films. May be retaken to a maximum of six hours with different course content. May not be taken concurrently with BEM 260. 2 Lec/2 Lab.

**BEM 471. Media Sales. (3 Credits)**

A. Previously COM 471. Prerequisites: ENG 102, or 105(B) or HON 102. Problems and practices of both print and electronic media sales. Includes case studies in both print and broadcast sales development (local, regional, and national), pricing, production, promotion, and basic sales campaigns. Credit will not be awarded to students who have credit for COM 471.

**BEM 491. Senior Seminar. (2 Credits)**

I, II. Prerequisites: completion of 90 hours. Co-requisite: At least one hour from BEM 349 or 343 or 398. Evaluates students' progress toward a career in mass communications, especially the development of an electronic portfolio, and develops job search strategies and skills. Includes assessment of instruction and curriculum.

**BEM 495. Video Production III. (4 Credits)**

I, II. Prerequisite: BEM 395 or 370. Advanced study of video production and direction, combining studio and field work. Includes writing program proposals, scripts, and shooting schedules. Programs produced outside normal class hours. 3 Lec/3 Lab.

**BEM 499. Independent Study in Electronic Media. (1-4 Credits)**

A. Prerequisite: Student must consult with the faculty supervisor and have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of four hours.

## BIO Biology (BIO)

**BIO 100. Introductory Biology. (3 Credits)**

I, II. Prerequisite: Completion of all academic readiness requirements in English and reading or ENG101R; and Math ACT score of 19 or higher, or Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher, or STA 215 or higher. The course will deal with introductory principles of biology that are fundamental to an individual's knowledge as it pertains to the interrelationships of organisms in the natural world. Topics to be addressed: cellular basis of life, metabolism, genetics, biological diversity, reproduction, evolution, ecology, and environmental biology. May not be used to satisfy area, major, or minor requirements. Credit will not be awarded to students who have credit for BIO 101 or 102. 2 Lec/2 Lab. Gen. Ed. E-4 [NS].

**BIO 101. Essentials of Biology. (3 Credits)**

I, II. ONLINE ONLY. Prerequisite: Completion of all academic readiness requirements in English and reading or ENG 101R; and Math ACT score of 19 or higher, or Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher, or STA 215 or higher. Biological principles and applications as relates to life on earth from the molecular to ecosphere scale; current topics in genetics, evolution, ecology, plant and animal diversity, and human biology will be discussed. May not be used to satisfy area, major, or minor requirements. Credit will not be awarded to students who have credit for BIO 100 or 102. 2 Lec/2 Lab. Gen. Ed. E-4 [NS].

**BIO 102. Inquiry Biology for Teachers. (3 Credits)**

I, II. Prerequisites: completion of all academic readiness requirements in English and reading or ENG 101R; and Math ACT score of 19 or higher, Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher; pre-teaching or teaching elementary, and middle school, special education, and DHH majors only, or departmental approval. An inquiry-based, conceptual-approach biological sciences course for teaching majors. Topics include the nature of science, cell biology, biodiversity, inheritance, ecology and ecosystems, evolution and adaptation. May not be used to satisfy area, major, or minor requirements. Credit will not be awarded to students who have credit for BIO 100 or 101. 2 Lec/2 Lab. Gen. Ed. E-4 [NS].

**BIO 111. Cell and Molecular Biology. (4 Credits)**

I, II. Prerequisite: Completion of all academic readiness requirements in English and reading or ENG 101R; and Math ACT score of 19 or higher, or Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher, or STA 215 or higher. An introduction to fundamental principles of cell and molecular biology as they apply to plants, animals, and microbes; the molecular basis of life, cellular structure and function, genetic and molecular biology. Designed for biology majors. 3 Lec/2 Lab. Gen. Ed. E-4 [NS].

**BIO 112. Ecology and Evolution. (4 Credits)**

I, II. Prerequisite: Completion of all academic readiness requirements in English and reading or ENG 101R; and Math ACT score of 19 or higher, or Math SAT score of 500 or higher, or passing score on math placement test, or MAT 105 or higher, or STA 215 or higher. An introduction to the fundamental principles of ecology and evolution: interactions among plants, animals, microbes, and their environment, and the diversification of life through evolutionary processes. Designed for biology majors. 3 Lec/2 Lab. Gen. Ed. E-4 [NS].

**BIO 215. Insects and Society. (3 Credits)**

A. Prerequisites: ENG 102 or 105(B) or HON 102. An introduction to insects and their influence on human society. Impacts of insects on our food supply, homes and health, as well as the influence of insects on culture, world history, and the long-term maintenance of the earth's critical support systems. May not be used to satisfy biology major or minor requirements. Gen. Ed. VII.

**BIO 271. Advanced Human Anatomy. (3 Credits)**

II. Prerequisites: BIO 171 (grade of C or better) or 308 (grade of C or better). An advanced study of human anatomy. Emphasis is placed on the musculoskeletal and nervous systems and their anatomical and functional relationships. May not be used to satisfy area, major, or minor requirements. 2 Lec/2 Lab.

**BIO 273. Clinical Microbiology. (4 Credits)**

Prerequisite: BIO 171 (grade of C or better) or 307 (grade of C or better). A study of microorganisms as causative agents in diseases of humans with emphasis on differentiation and culture, types of diseases, modes of transmission, prophylactic, therapeutic and epidemiological considerations. May not be used to satisfy area, major, or minor requirements. Credit will not be awarded to students who have credit for MLS 209. 2 Lec/4 Lab. Gen. Ed. VII (NS).

**BIO 300. Economic Plants. (3 Credits)**

I, II. Economic consideration of plants as sources of food, medicine, and other products; the origin, domestication, general anatomy and culture of plants; deleterious plants; aspects of aesthetics and effect on society and world events. May not be used to satisfy area, major, or minor requirements, except the biology (teaching) major and minor.

**BIO 305. Biology of Sex. (3 Credits)**

I, II. Prerequisite: ENG 102, 105 (B), HON 102, or departmental approval. Crosslisted as WGS 311. Fundamental principles related to human sexual reproduction. Structure, function, control, and coordination of the human reproductive system. Problems associated with fertility, sexuality, birth control, STD's, and human population will be discussed. Fulfills University Wellness Requirement. May not be used to satisfy area, major or minor requirements. Credit will not be awarded to students who have credit for WGS 311.

**BIO 307. Human Anatomy and Physiology I. (3 Credits)**

I, II. Prerequisite: Completion of academic readiness requirements in English and reading or ENG 101R; ACT math of 19 or higher (SAT math 500) or passing score on math placement test or MAT 105 or higher or STA 215 or higher; ACT composite of 20 or higher (SAT1040) or completion of BIO 100 (grade of C or better) or BIO 101 (grade of C or better) or 111 (grade of C or better). Basic chemistry and the interrelationship of structure and function of body systems including cell structure, cell physiology, metabolism, tissues, and integumentary, skeletal, muscular, sensory and nervous systems. 2 Lec./2 lab. Credit will not be awarded for both BIO 171 and BIO 307.

**BIO 308. Human Anatomy and Physiology II. (3 Credits)**

I, II Prerequisite: BIO 307 (grade of C or better) or BIO 171 (C or better) or major in pre-medical lab science or EHS. The interrelationship of structure and function of body systems including endocrine, cardiovascular, circulatory, respiratory, digestive, urinary, reproductive, lymphatic and immune systems. Lecture 2 hours, Laboratory 2 hours. Credit will not be awarded for both BIO 308 and BIO 301, 378.

**BIO 310. Biology of Aging. (3 Credits)**

A. Prerequisite: BIO 100, 171, or 308 (with a grade of C or better) or departmental approval. System by system approach to the biological effects of the aging process on the human body. May not be used to satisfy area, major, or minor requirements in the Department of Biological Sciences. Gen. Ed. VI. Fulfills University Wellness Requirement.

**BIO 315. Genetics. (4 Credits)**

I, II. Prerequisite: BIO 111 (with a grade of C or better) and 112 (with a grade of C or better). Discussion of Mendelian genetics, molecular genetics, genetic mapping, and population genetics. Emphasis on critical thinking skills and logic through experimental analysis. Laboratory will include experimental manipulation of prokaryotic and eukaryotic organisms. 3 Lec/3 Lab.

**BIO 316. Ecology. (4 Credits)**

I, II. Prerequisite: BIO 111 (grade of C or better) and BIO 112 (with a grade of C or better). Basic concepts and principles as applied to the study of organisms or groups of organisms in their interrelations to each other and to their environments. 2 Lec/4 Lab.

**BIO 317. Conserv of Wildlife Resources. (3 Credits)**

I, II. Introduction to the principles and practices of conservation of plants and animals; requirements and values of wildlife resources; impact of human activities on resources. May not be used to satisfy area, major, or minor requirements. Gen. Ed. VII (NS).

**BIO 318. General Botany. (4 Credits)**

I,II. Prerequisite: BIO 111 (with a grade of C or better) and 112 (with a grade of C or better). Structure and functions of vascular plants; morphology, classification, life histories, ecology and evolution of autotrophs, plantlike protists and fungi. 3 Lec/3 Lab. Credit will not be awarded to students who have credit for BIO 131.

**BIO 319. General Zoology. (4 Credits)**

I,II. Prerequisite: BIO 111 (with a grade of C or better) and 112 (with a grade of C or better). Morphology, physiology, comparative anatomy, development, life history, evolution, and diversity of animals. 3 Lec/3 Lab. Credit will not be awarded to students who have credit for BIO 141.

**BIO 320. Principles of Microbiology. (4 Credits)**

I, II. Prerequisite: BIO 111, BIO 112, and CHE 112 (with a grade of C or better) or Environmental Health Science major with BIO 111 (C) and CHE 112 (C). A study of bacteria and other microorganisms, their morphology, development and function; techniques of isolation, cultivation and identification; physiology, nutrition, and genetics; role of microbes in medicine, agriculture, and industry. 2 Lec/4 Lab.

**BIO 331. Cell Biology. (3 Credits)**

I, II. Prerequisite: Junior or senior standing in Biology, Biomedical Sciences, Wildlife Management or Chemistry, Animal & Veterinary Sciences, or Forensic Science, or departmental approval. An examination of cellular structure and function. Emphasis will be placed on macromolecule biosynthesis, gene expression, membrane dynamics, cytoskeletal function, intracellular signaling, cascades, protein trafficking, and intercellular interactions. Molecular research methods and their applications will also be discussed.

**BIO 332. Careers in Biomedical Sciences. (1 Credit)**

Prerequisites: BIO 111 (C or better) and CHE 112 (C or better). Students will explore the diverse range of career options within the biomedical sciences, develop materials and skills for successful admission in graduate/professional programs. This course requires 50 hours of experiential learning through an internship/shadowing experience. 1 Lec.

**BIO 335. Plant Systematics. (3 Credits)**

II. Prerequisite: BIO 111 (grade of C or better), 112 (grade of C or better), and 318 (grade of C or better); or departmental approval. Identification, classification and phylogeny of vascular plants; principles of taxonomy. 1 Lec/4 Lab.

**BIO 342. Comparative Vertebrate Anatomy. (4 Credits)**

I. Prerequisite: BIO 112 (grade of C or better), and 319 (grade of C or better); or departmental approval. Evolutionary relationships of the classes of vertebrates are investigated through their anatomy. Laboratory studies or organs and systems of vertebrate animals primarily compare the dogfish shark, the mudpuppy (Necturus), and the cat. 2 Lec/4 Lab.

**BIO 348. Vertebrate Physiology. (3 Credits)**

(3) I, II. Prerequisite: BIO 331 (C or better); CHE 112 (C or better), and PHY 131 (C or better) or PHY 201 (C or better) or departmental approval. Command of human physiology through an integrated study of the physical, chemical, and cellular aspects of physiological systems across vertebrates. Group work and critical thinking will be stressed utilizing human case studies and computer simulations. 3 Lec.

**BIO 349. Applied Learning in Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349A. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349B. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349C. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349D. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349E. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349F. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349G. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349H. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349I. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349J. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349K. Co-op or Appl. Lrn: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349L. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349M. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 349N. Cooperative Study: Biology. (0.5-8 Credits)**

I, II. Prerequisites: BIO 111 (C or better) or BIO 112 (C or better). Work in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. Three hours may be applied to the major. May not be used to satisfy minor requirements. Graded Satisfactory/Unsatisfactory.

**BIO 371. Neuroanatomy. (3 Credits)**

I, II. Prerequisite: BIO 171 or 308 (grade of "C" or better) or departmental approval. Anatomy of the nervous system and the relationships to functions of systems of the human body. May not be used to satisfy area, major, or minor requirements in the Department of Biological Sciences. 2 Lec/2 Lab.

**BIO 375W. Microbes and Food. (3 Credits)**

(3) A. Prerequisites: ENG 102 or 105 (B) or HON 102 and BIO 111 (grade of C or better) or departmental approval. An overview of food-borne illness and food safety, the role of microbes in food production and the relationships between diet and the human microbiome.

**BIO 380. Wildlife Law & Law Enforcement. (3 Credits)**

A. Discussion of pertinent state and federal wildlife laws and how law enforcement impacts wildlife management.

**BIO 381. Principles of Wildlife Mgt. (3 Credits)**

I. Basic principles of wildlife management and their application to current management issues.

**BIO 382. Wildlife Population Analysis. (4 Credits)**

I. Population ecology of vertebrates, with a focus on field methods and analysis of data applicable to wildlife conservation. Recommend BIO 316 and 381 prior to or concurrent with enrollment. 2 Lec/4 Lab.

**BIO 382W. Wildlife Population Analysis. (4 Credits)**

I. Prerequisites: ENG 102 or ENG 105 (B) or HON 102, and Wildlife Management major or department approval. Population ecology of vertebrates, with a focus on field methods, analysis of data, and writing techniques applicable to wildlife conservation. Recommend BIO 316 and 381 prior to or concurrent with enrollment. Credit will not be awarded for both BIO 382 and 382W. 2 Lec/4 Lab.

**BIO 399. Trends in Biological Science. (1-4 Credits)**

A. Prerequisite: instructor approval. A presentation of selected topics in the biological sciences reflective of new developments and current trends in scientific advancement. May be retaken to a maximum of six hours. Gen. Ed. 15 or 16.

**BIO 489. Field Studies in Wildlife. (1-3 Credits)**

A. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. Field studies designed to enhance the student's wildlife management techniques. Required of all wildlife management majors during the junior or senior year. May be retaken to a maximum of three hours.

**BIO 490. Biology Seminar. (1 Credit)**

I, II. Prerequisite: junior or senior standing in biology. Students and members of the faculty meet to present, discuss, and exchange ideas on selected topics, based on the scientific literature for the biological sciences.

**BIO 495. Evolutionary Application and Theory. (1 Credit)**

I, II. Prerequisite: Senior standing in Biology, Biomedical Sciences, or Wildlife Management. Discussion of topics relating to evolutionary theory with special emphasis on the impact of evolution in everyday life. This is a course that builds upon evolutionary concepts learned throughout the biology curriculum. 2 Lab.

**BIO 500. Environmental Issues. (3 Credits)**

(3) II. Prerequisite: BIO 100, 102, or 112. Students will learn to identify, investigate, and evaluate environmental issues as well as plan appropriate action based on their analysis. Credit will not be awarded to students who have credit for ENV 500, CNM 800, and BIO 700.

**BIO 511. Experiment Appro/Molecular Bio. (3 Credits)**

I. Prerequisite: BIO 111. Laboratory experience-based course in molecular biology techniques. Subject will be introduced in a lecture setting and practical laboratory training. Techniques will include PCR-based methodologies; immunological approaches; basic protein and nucleic acid manipulations. 1 Lec/4 Lab.

**BIO 514. Evolution. (3 Credits)**

A. Prerequisite: BIO 315 (grade of C or better) or departmental approval. A study of Darwinism, the history of life in the context of contemporary biology, and the evidences and mechanisms of evolutionary change, with particular emphasis on human evolution and the challenges of teaching and understanding evolution in modern society.

**BIO 520. Invasive Species Management. (3 Credits)**

A. Prerequisites: BIO 316 (C or better) or department approval. Examination of the circumstances that allow introduced species to become invasive. Reviews the current approaches used to reduce the incidence and impact of invasive species. Credit will not be awarded to students who have credit for BIO 599/799 Special Topics: Invasive Species Management.

**BIO 521. Plant Ecology. (4 Credits)**

A. Prerequisite: BIO 316 (grade of C or better) and BIO 318 (grade of C or better) or 335 (grade of C or better) or departmental approval. Ecological concepts and principles relevant to eastern terrestrial ecosystems. Required Fall Break field trip. 2 Lec/4 Lab.

**BIO 522. Grasses and Grasslands. (3 Credits)**

I. Prerequisite: instructor approval. Development and composition of grasslands; phylogeny, classification, and identification of grasses. Emphasis on North American grasses and grasslands with field trips to native and managed grasslands. 1 Lec/4 Lab.

**BIO 525. Aquatic and Wetland Plants. (3 Credits)**

A. Prerequisite: BIO 111 (C or higher), 112 (C or higher), and 318 (C or higher); or departmental approval. Collection, systematics, distribution, ecology, and reproduction of aquatic and wetland vascular plants. 1 Lec/4 Lab.

**BIO 527. Immunology. (3 Credits)**

I. Prerequisite: BIO 320 (grade of C or better) and CHE 361 (grade of C or better); or instructor departmental approval. Characteristics of immune reactions at the molecular level and in vivo. Nature and interactions of antigens and antibodies, and allergic phenomena. 2 Lec/3 Lab.

**BIO 528. Virology. (3 Credits)**

A. Prerequisite: BIO 320 (grade of C or better); or departmental approval. Fundamentals of classification, structure, and pathogenesis of viruses. Host-virus interactions and their applications to medicine and industry. Viral related areas of immunology, cell culture procedures, and applications will be introduced. 2 Lec/3 Lab.

**BIO 529. Microbiology in Everyday Life. (3 Credits)**

A. Prerequisite: BIO 100 (grade of C or better), or 102 (grade of C or better), or 111 (grade of C or better), or 112 (grade of C or better), or departmental approval. Microbes in medicine, agriculture, and industry; emphasis on teaching microbiology in the classroom. Course open only to Biology-Teaching or Education majors.

**BIO 531. Principles of Molecular Biology. (4 Credits)**

I, II. Prerequisites: BIO 320 (grade of C or better) or 331 (grade of C or better), and CHE 361 (grade of C or better); or departmental approval. An in-depth study of the structure, function, and technological applications of nucleic acids and proteins. Laboratory experiences will involve manipulations of DNA and RNA molecules for the purpose of isolation, genetic engineering, forensics, and gene expression analysis. Credit will not be awarded for both BIO 531 and BIO 531S 2 Lec/4 Lab.

**BIO 531S. Principles of Molecular Biology. (4 Credits)**

I, II. Prerequisite: BIO 320 (grade of C or better) or 331 (grade of C or better) and CHE 361 (grade of C or better); or departmental approval. An in-depth study of the structure, function, and technological applications of nucleic acids and proteins. Laboratory experiences will involve manipulations of DNA and RNA molecules for the purpose of isolation, genetic engineering, forensics, and gene expression analysis. Credit will not be awarded for both BIO 531S and BIO 531 2 Lec/4 Lab.

**BIO 532. Conservation Biology. (3 Credits)**

II. Prerequisite: BIO 316 (grade of C or better) or departmental approval. Examination of principles and practices of conserving global biological diversity. Emphasis on causes, consequences and rates of extinction, as well as the natural resource planning and policies used to mitigate the loss of biodiversity. Focus will be given to the application of philosophical, biological, sociological, legal, and on-the-ground management principles for the conservation of genes, species and ecosystems.

**BIO 533. Bioinformatics: Principles and Applications. (3 Credits)**

A. Prerequisite: BIO 315 (grade of C or better); or departmental approval. An exposure to the theory and practice of bioinformatics, as they relate to laboratory (Cell and Molecular Biology, Biochemistry) and field (Evolutionary and Population Biology) research applications in the life sciences. Discussion and utilization of the prevalent approaches and methodologies currently used in Bioinformatics.

**BIO 535. Pathogenic Microbiology. (4 Credits)**

A. Prerequisite: BIO 320 (grade of C or better); or departmental approval. Studies in the field of advanced clinical microbiology with emphasis on morphology, cultivation, biochemistry, and serological identification of bacterial diseases; aspects of pathogenesis, epidemiology, and control measures of bacterial and mycotic diseases. 2 Lec/4 Lab.

**BIO 536. Dendrology. (3 Credits)**

A. Prerequisite: BIO 318 (grade of C or better); or departmental approval. Woody plant taxonomy with emphasis on field identification of trees and shrubs in summer and winter conditions; habitats and distributions; economic importance; forest regions of North America. 1 Lec/4 Lab.

**BIO 542. Freshwater Invertebrates. (3 Credits)**

A. Prerequisite: BIO 112 (grade of C or better) and 319 (grade of C or better) or departmental approval. Collection, systematics, distribution, behavior, ecology, and life histories of freshwater invertebrates. 2 Lec/3 Lab.

**BIO 546. Histology. (4 Credits)**

II. Prerequisite: BIO 331 (grade of C or better) and 348 (grade of C or better); or departmental approval. This course will provide students with an essential understanding of functional morphology in vertebrate tissues and organs. Pathology examples will be used to explain cellular and molecular basis of normal function related to structure.

**BIO 547. Comparative Vertebrate Embryology. (4 Credits)**

A. Prerequisite: BIO 331 (grade of C or better) or departmental approval. Gametogenesis, fertilization, morphogenesis, and organogenesis of the frog, bird, and mammal. Particular emphasis is placed on mammalian development. 2 Lec/4 Lab.

**BIO 548. Insect Diversity. (3 Credits)**

A. Prerequisite: BIO 319 (C or better) or departmental approval. An introduction to the insects with an emphasis on classification, identification, natural history, and evolution of insect orders and common families. (2 Lac/3 Lab) Credit will not be awarded for both BIO 548 and BIO 599: Topics in Biological Sciences.

**BIO 549. Neurobiology. (3 Credits)**

I. Prerequisites: BIO 331. A discussion of the cellular architecture of the nervous system, with emphasis on the biochemical and electrophysiological properties of neurons and glia that control cognition, learning and memory, emotion, sensation and perception, endocrine regulation, and neurological illness. An overview of molecular research methods used to investigate neural function.

**BIO 550. Animal Behavior. (4 Credits)**

II. Prerequisite: BIO 111 (grade of C or better) and 112 (grade of C or better); or departmental approval. Advanced study of behavior with emphasis on inherited behavioral patterns in relation to the evolution and ecology of animals. 3 Lec/2 Lab.

**BIO 553. Mammalogy. (3 Credits)**

I. Prerequisites: BIO 111 (grade of C or better) and 112 (grade of C or better); or departmental approval. Classification, natural history, field methods, and distribution of mammals. Requires participation in an extended field trip outside of normal class hours. 1 Lec/4 Lab.

**BIO 554. Ornithology. (3 Credits)**

II. Prerequisite: BIO 111 (grade of C or better) and 112 (grade of C or better); or departmental approval. Avian biology with emphasis on field identification of local avifauna, anatomy, physiology, ecology, evolution, migration, economic importance, distribution, and behavioral patterns. Early morning field trips required. 2 Lec/4 Lab.

**BIO 555. Behavioral Ecology. (3 Credits)**

A. Prerequisite: BIO 316 (grade of C or better); or instructor approval. How behavior is influenced by natural selection in relation to ecological conditions. Emphasis on quantitative and experimental methods and on integrating theoretical ideas with field and laboratory evidence.

**BIO 556. Herpetology. (3 Credits)**

II. Prerequisite: BIO 319 (grade of C or better) or departmental approval. Natural history of the amphibians and reptiles including taxonomy, general ecology, behavior, distribution, breeding, and food habits. 2 Lec/3 Lab.

**BIO 557. Ichthyology. (3 Credits)**

I. Prerequisite: BIO 112 (grade of C or better) and 319 (grade of C or better) or departmental approval. A phylogenetic examination of morphological, ecological, and behavioral diversification of fishes of the world, with special attention to the Appalachian fauna. Laboratory devoted to anatomy, identification, and reproductive strategies. 2 Lec/4 Lab.

**BIO 558. Freshwater Ecology. (3 Credits)**

A. Prerequisite: BIO 316 (grade of C or better) or departmental approval. Ecology of lakes and streams with special reference to physical, chemical, and biological factors. To include a variety of methods and instruments. 2 Lec/3 Lab.

**BIO 561. Fisheries Biology. (3 Credits)**

A. Prerequisite: BIO 112 (grade of C or better) and 316 (grade of C or better); or departmental approval. Methods for assessment and analysis of fish populations and aquatic habitats, including age and growth, fecundity, food habits, and yield. Emphasis on economic and ecological importance of management decisions. 2 Lec/4 Lab.

**BIO 590. Ecology for Teachers. (3 Credits)**

(3) I. Cross-Listed as ENV 590, Prerequisite: BIO 100 (grade of C or better), 102 (grade of C or better), or 112 (grade of C or better). This course introduces ecology and the environment through an interdisciplinary approach beginning with the physical environment progressing to whole ecosystems and onto analyses of ecological sustainability. Classroom strategies and techniques will be modeled. Credit will not be awarded to students who have credit for ENV 590 or CNM 599.

**BIO 595. Topics in Field Biology.\_\_\_\_. (3 Credits)**

A. Prerequisite: BIO 318 (grade of C or better) or 319 (grade of C or better); and departmental approval. Concepts, methods, analyses, and organismal identification used to study \_\_\_\_\_. Material will be taught using a combinations of lecture, discussion, and experiential learning via hands-on field activities. May be repeated up to a maximum of 12 hours provided subject matter is different each time. 1 Lec/4 Lab.

**BIO 598. Special Problems. (1-3 Credits)**

I, II. Prerequisites: junior or senior standing; students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. Independent research in the biological sciences, under the guidance of a faculty member, which allows students to design a research problem and make experimental observations and conclusions. May be retaken to a maximum of six hours.

**BIO 599. Topics in Biological Sciences:\_\_\_\_. (6 Credits)**

A. Prerequisites: Senior Standing, BIO 111 (grade of C or better), 112 (grade of C or better) and departmental approval. Special topics in the biological sciences of current interest to faculty and students may be presented through lecture, discussion, lab and field experiences, and reports. May be retaken to a maximum of nineteen hours, provided subject matter differs each time.

**BIO 700. Environmental Issues. (3 Credits)**

(3) II. Students will learn to identify, investigate and evaluate environmental issues as well as plan appropriate action based on their analysis. Credit will not be awarded to students who have credit for BIO 500, ENV 700 or CNM 800.

**BIO 711. Experiment Appro/Molecular Bio. (3 Credits)**

I. Laboratory experiencebased course in molecular biology techniques. Subject will be introduced in a lecture setting and practical laboratory training. Techniques will include PCRbased methodologies, immunological approaches, and basic protein and nucleic acid manipulations. 1 Lec/4 Lab.

**BIO 714. Evolution. (3 Credits)**

A. A study of Darwinism, the history of life in the context of contemporary biology, and the evidences and mechanisms of evolutionary change, with particular emphasis on human evolution and the challenges of teaching and understanding evolution in modern society.

**BIO 720. Invasive Species Management. (3 Credits)**

A. Examination of the circumstances that allow introduced species to become invasive. Reviews the current approaches used to reduce the incidence and impact of invasive species. Credit will not be awarded to students who have credit for BIO 599/799 Special Topics: Invasive Species Management.

**BIO 721. Plant Ecology. (4 Credits)**

A. Ecological concepts and principles relevant to eastern terrestrial ecosystems. Required weekend field trips and an extended field trip in the region. 2 Lec/4 Lab.

**BIO 722. Grasses & Grasslands. (3 Credits)**

I. Prerequisite: instructor approval. Development and composition of grasslands; phylogeny, classification, and identification of grasses. Emphasis on North American grasses and grasslands, with field trips to native and managed grasslands. 1 Lec/4 Lab.

**BIO 725. Aquatic and Wetland Plants. (3 Credits)**

A. Collection, systematics, distribution, ecology, and reproduction of aquatic and wetland vascular plants. 1 Lec/4 Lab.

**BIO 727. Immunology. (3 Credits)**

I. Characteristics of immune reactions at the molecular level and in vivo. Nature and interactions of antigens and antibodies, and allergic phenomena. 2 Lec/3 Lab.

**BIO 728. Virology. (3 Credits)**

A. Fundamentals of classification, structure, and pathogenesis of viruses. Host-virus interactions and their applications to medicine and industry. Related areas of immunology, cell culture procedures and applications will be introduced. 2 Lec/3 Lab.

**BIO 729. Microbiology in Everyday Life. (3 Credits)**

I, II. Microbes in medicine, agriculture, and industry; emphasis on teaching microbiology in the classroom. Course open to Biology-Teaching or Education majors.

**BIO 731. Principles Molecular Biology. (4 Credits)**

I, II. An in-depth study of the structure, function, and technological applications of nucleic acids and proteins. Laboratory experiences will involve manipulation of DNA and RNA molecules for the purpose of isolation, genetic engineering, forensics, and gene expression analysis. Credit will not be awarded for both BIO 731 and BIO 731S. 2 Lec/4 Lab.

**BIO 731S. Principles of Molecular BIO I. (4 Credits)**

I, II. An in-depth study of the structure, function, and technological applications of nucleic acids and proteins. Laboratory experiences will involve manipulation of DNA and RNA molecules for the purpose of isolation, genetic engineering, forensics, and gene expression analysis. Credit will not be awarded for both BIO 731 and BIO 731S. 2 Lec/4 Lab.

**BIO 732. Conservation Biology. (3 Credits)**

II. Examination of principles and practices of conserving global biological diversity. Emphasis on causes, consequences and rates of extinction, as well as the natural resource planning and policies used to mitigate the loss of biodiversity. Focus will be given to the application of philosophical, biological, sociological, legal, and on-the-ground management principles for the conservation of genes, species and ecosystems.

**BIO 733. Bioinformatics:Principles & App. (3 Credits)**

A. An exposure to the theory and practice of bioinformatics as they relate to laboratory (Cell and Molecular Biology, Biochemistry) and field (Evolutionary and Population Biology) research applications in the life sciences. Discussion and utilization of the prevalent approaches and methodologies currently used in Bioinformatics.

**BIO 735. Pathogenic Microbiology. (4 Credits)**

A. Studies in the field of advanced clinical microbiology with emphasis on morphology, cultivation, biochemistry, and serological identification of bacterial diseases; aspects of pathogenesis, epidemiology, and control measures of bacterial and mycotic diseases. 2 Lec/4 Lab.

**BIO 736. Dendrology. (3 Credits)**

A. Woody plant taxonomy with emphasis on field identification of trees and shrubs in summer and winter conditions; habitats and distributions; economic importance; forest regions of North America. 1 Lec/4 Lab.

**BIO 742. Freshwater Invertebrates. (3 Credits)**

A. Collection, systematics, distribution, behavior, ecology, and life histories of freshwater invertebrates. 2 Lec/3 Lab.

**BIO 746. Histology. (4 Credits)**

II. This course will provide students with an essential understanding of functional morphology in vertebrate tissues and organs. Pathology examples will be used to explain the cellular and molecular basis of normal function related to structure. 2 Lec/4 Lab.

**BIO 747. Comparat Vertebrate Embryology. (4 Credits)**

A. Gametogenesis, fertilization, morphogenesis, and organogenesis of the frog, bird, and mammal. Particular emphasis is placed on mammalian development. 2 Lec/4 Lab.

**BIO 748. Insect Diversity. (3 Credits)**

A. An introduction to the insects with an emphasis on classification, identification, natural history, and evolution of insect orders and common families. (2 Lec/3 Lab). Credit will not be awarded for both BIO 748 and BIO 799: Topics on Biological Sciences.

**BIO 749. Neurobiology. (3 Credits)**

I. A discussion of the cellular architecture of the nervous system, with emphasis on the biochemical and electrophysiological properties of neurons and glia that control cognition, learning and memory, emotion, sensation and perception, endocrine regulation, and neurological illness. An overview of molecular research methods used to investigate neural function.

**BIO 750. Animal Behavior. (4 Credits)**

II. Advanced study of behavior with emphasis on inherited behavioral patterns in relation to the evolution and ecology of animals. 3 Lec/2 Lab.

**BIO 753. Mammalogy. (3 Credits)**

I. Classification, natural history, field methods, and distribution of mammals. Requires participation in an extended field trip outside of normal class hours. 1 Lec/4 Lab.

**BIO 754. Ornithology. (3 Credits)**

II. Avian biology with emphasis on field identification of local avifauna, anatomy, physiology, ecology, evolution, migration, economic importance, distribution, and behavioral patterns. Early morning field trips required. 2 Lec/4 Lab.

**BIO 755. Behavioral Ecology. (3 Credits)**

A. How behavior is influenced by natural selection in relation to ecological conditions. Emphasis on quantitative and experimental methods and on integrating theoretical ideas with field and laboratory experience.

**BIO 756. Herpetology. (3 Credits)**

II. Natural history of the amphibians and reptiles including taxonomy, general ecology, behavior, distribution, breeding, and food habits. 2 Lec/3 Lab.

**BIO 757. Ichthyology. (3 Credits)**

I. A phylogenetic examination of morphological, ecological, and behavioral diversifications of fishes in the world, with special attention to the Appalachian fauna. Laboratory devoted to anatomy, identification, and reproductive strategies. 2 Lec/Lab.

**BIO 758. Freshwater Ecology. (3 Credits)**

A. Ecology of lakes and streams with reference to physical, chemical, and biological factors. To include a variety of methods and instruments. 2 Lec/3 Lab.

**BIO 761. Fish Biology & Management. (3 Credits)**

A. Methods for assessment and analysis of fish populations and aquatic habitats, including age and growth, fecundity, food habits, and yield. Emphasis on economics and ecological importance of management decisions. 2 Lec/4Lab.

**BIO 790. Ecology for Teachers. (3 Credits)**

(3) I. This course introduces ecology and the environment through an interdisciplinary approach beginning with the physical environment progressing to whole ecosystems and onto analyses of ecological sustainability. Classroom strategies and techniques will be modeled. Credit will not be awarded to students you have credit for ENV 790 or CNM 799.

**BIO 795. Topics in Field Biology:\_\_\_\_\_. (3 Credits)**

A. Prerequisite: Departmental Approval. Concepts, methods, analyses, and organismal identification used to study selected topic. Material will be taught using a combinations of lecture, discussion, and experiential learning via hands-on field activities. May be repeated up to a maximum of 12 hours provided subject matter is different each time. 1 Lec/4 Lab.

**BIO 798. Special Problems. (1-3 Credits)**

I, II. Prerequisite: students must have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment. Independent research in the biological sciences, under the guidance of a faculty member, which allows students to design a research problem and make experimental observations and conclusions. May be retaken to a maximum of four hours.

**BIO 799. Topics in Bio Sciences:\_\_\_\_\_. (6 Credits)**

A. Prerequisite: departmental approval. Special topics in the biological sciences of current interest to faculty and students may be presented through lecture, discussion, lab and field experiences, and report. May be retaken to a maximum of nine hours. Provided subject matter differs each time.

**BIO 800. Biology and Ethics. (1 Credit)**

(1) I. Responsibilities and ethics of research and teaching in the biological sciences. 2 Lab.

**BIO 801. Scien Lit & Writing-Biology. (2 Credits)**

I. Directed readings in biology designed to acquaint the student with the major sources of literature, the delimitation of problems, note taking, the making of bibliographies, and the writing of scientific articles.

**BIO 802. Selected Topics in Bio Sci. (1-4 Credits)**

A. Advanced study of modern biological principles and the solution of interacting problems. The course content will be designed to meet the needs of students in specialized areas of biology. May be retaken to a maximum of eight hours.

**BIO 806. Aquatic Entomology. (3 Credits)**

A. To develop an understanding of, and an appreciation for, aquatic insects. Techniques on collecting as well as the biology, ecology, and systematics of each of the aquatic insect orders will be considered. 2 Lec/3 Lab.

**BIO 810. Biostatistics. (3 Credits)**

I. Statistical analysis of biological data. Students participate in the taking and processing of data by use of well-established statistical techniques. 2 Lec/2 Lab.

**BIO 816. Biogeography. (3 Credits)**

A. Physical and biotic factors influencing the evolution, diversity and distribution of Earth's biota; ecogeographic principles, patterns and theories related to the diversity and distributions of organisms.

**BIO 820. Principles of Pharmacology. (3 Credits)**

An in-depth study of how drugs interact and alter biological systems in the body. The concepts of drug metabolism, physiological response, and therapy will be emphasized. 3 Lec.

**BIO 821. Applications in Flow Cytometry. (3 Credits)**

This course focuses on principles, applications and quality assurance of flow cytometry in research and clinical use in immunology, hematology and transplantation. Emphasis is placed on the biological and physical principles underlying flow cytometry. 2 Lec/2 Lab.

**BIO 831. Molecular Regulation. (3 Credits)**

A. Discussion and experimental manipulation of transcriptional/translational regulation in eukaryotes/prokaryotes with reliance on the current literature as reference. Coverage of regulatory mechanisms and experimental approaches. 2 Lec/2 Lab.

**BIO 839. Co-op or Appl. Lrn: Biology. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in a cooperative job experience related to student's academic studies. Credit varies with hours of employment; three to six hours per semester or summer. May be retaken at the discretion of the department or college involved. A minimum of eighty hours of work is required for each academic credit. Credit does not apply toward the M.S. degree requirements.

**BIO 845. Vert Physiological Ecology. (3 Credits)**

A. Comparative study of physiological mechanisms of vertebrates in response to changing environmental conditions. Topics emphasized include temperature adaptation, color change, orientation, and biological rhythms. 2 Lec/3 Lab.

**BIO 846. Population Ecology. (3 Credits)**

A. Theoretical and applied study of size and organization of animal and plant populations and the physical and biological factors affecting spatial and temporal patterns.

**BIO 847. Community Ecology. (3 Credits)**

(3) A. Principles and applications of community ecology: including species interactions, community structure and diversity, and succession. Statistical methods in community ecology. (2Lec/3 Lab).

**BIO 848. Aquatic Ecosystems. (3 Credits)**

A. Modern methods for analysis of biological integrity of aquatic ecosystems. To include fieldwork involving various methods, and the calculation and discussion of currently used metrics. 2 Lec/3 Lab.

**BIO 849. Field Methods in Ecology. (3 Credits)**

A. Field sampling techniques and methods of observation applicable to describing terrestrial plant and animal communities. Field data utilized to develop an environmental impact statement. 6 Lab.

**BIO 880. Current Review of Biology. (3 Credits)**

A. Prerequisite: BIO 801 or departmental approval. Summary and critical evaluation of current research in a particular area of biology, written in consultation with faculty advisor. Required of graduate students in non-thesis program. Cannot be used to meet requirements in the thesis program.

**BIO 881. Independent Study. (1-4 Credits)**

I, II. Prerequisite: approval of independent study proposal form by faculty supervisor and department chair prior to enrollment. Advanced research in the biological sciences under the guidance of a faculty member, which allows students to design a research problem and make experimental observations and conclusions. May be retaken to a maximum of four semester hours. Credit will not be given to students enrolled in the M.S. Biology thesis program.

**BIO 890. Graduate Seminar. (1 Credit)**

A. Prerequisite: BIO 801. Presentation and discussion of selected topics and research in the biological sciences. Required of all graduate students and may be retaken to a maximum of two hours.

**BIO 891. Thesis Research. (1-6 Credits)**

A. The accomplishment of an independent research project, in consultation with a faculty advisor, for the preparation of a thesis as part of the requirements for the M.S. degree in Biology. May be retaken to a maximum of six hours.

**BIO 891C. Continuation - Thesis Research. (1-9 Credits)**

A. Prerequisite: departmental approval. The continuation of an independent research project, in consultation with a faculty advisor, for the preparation of a thesis as part of the requirements for the M.S. degree in Biology. May be retaken as necessary to complete research thesis. A student must have registered for six hours of BIO 891 before registering for BIO 891C. May not be used to satisfy degree program requirements.

## BTO Acad Orient - Bus & Tech (BTO)

**BTO 100. Student Success Seminar. (1 Credit)**

I, II. Designed to orient the student to university academic life and afford background for career choice and preparation. Included are University regulations and calendar, catalog details, registration, various career opportunities, and program requirements. Open to all students during their first two semesters of enrollment at EKU; beyond that open to students with fewer than 30 semester hours earned.

## BTS Business & Tech Seminars (BTS)

**BTS 300. Professional Skills Seminar. (0 Credits)**

I, II. Required for all Business & Technology students who have earned at least 60 hours. Credit (CR) will be given when students have attended and/or completed department sponsored activities regarding professional skills and careers.

**BTS 400. College to Careers Seminar. (0 Credits)**

II. Prerequisites: AGR 305 or BTS 300. Required of all Business and Technology students who have earned at least 90 hours. Credit (CR) will be given when students have attended the annual College of Business and Technology's Student Success: College to Careers Conference.

## BUS Business (BUS)

**BUS 100. Professional Development One. (1 Credit)**

Prerequisite/Corequisite: BUS 101 (with a grade of "C" or better). Formerly BTO 100. In this course, students will focus on first impressions and social media presence, basic banking and personal budgeting, self-discovery of values and career exploration, as well as goal setting and time management. Credit will not be awarded for students who have credit for BTO 100.

**BUS 101. Nature of Business. (3 Credits)**

Formerly GBU 101. A student must register for this course prior to or concurrently with any other BUS course. Prerequisites: School of Business or BBA major or business minor; freshmen or sophomore standing. Introduction to business through historical understanding and holistic interpretation of modern organization. Includes capitalism's role and how it compares to other economic philosophies, functional aspects of the modern organization, current trends and future organizational strategies. Credit will not be awarded for students who have credit for GBU 101.

**BUS 200. Professional Development Two. (1 Credit)**

Prerequisite: Sophomore Standing. In this course, students focus on professional appearance and introductions, income planning and taxes, job application materials and building a network, as well as passion and perseverance.

**BUS 204. Fundamentals of Business Law and Ethics. (3 Credits)**

I, II. Formerly GBU 204. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisite: minimum 30 hours. Topics include business organizations; contract, employment, agency, constitutional, and criminal law; torts; real and intellectual property; and debtor/creditor issues, as well as ethical and socially responsible decision making. Credit will not be awarded for both GBU 204 and BUS 204.

**BUS 206. Fund of Prob Solving w Excel. (3 Credits)**

Prerequisite/Corequisite: A student must register for this course concurrently with or after completing BUS 101 (with a grade of "C" or better). Topics include constructing a logical argument, analyzing and interpreting data, applying mathematical methods to solve problems, using Excel to analyze and create graphical data representation, and personal creativity and whole-brain thinking.

**BUS 207. Fund of Interpersonal Bus Comm. (3 Credits)**

Formerly CCT 201. Prerequisite/Corequisite: A student must register for this course concurrently with or after completing BUS 101 (with a grade of "C" or better). Prerequisites: ENG 102, ENG 102R, HON 105 (B), or HON 102 (with a grade of "C" or better). A study of advanced knowledge and skills needed to communicate effectively in various settings, including face-to-face, working in teams, and communicating via digital networks. Persuasion, self-awareness, relational development, conflict resolution, listening, and non-verbals also covered. Credit will not be awarded for students who have credit for CCT 201.

**BUS 209. Fundamentals of Financial and Managerial Accounting. (3 Credits)**

Prerequisite: MAT 105 or higher (with a grade of "C" or better). Course focuses on how creditors, investors, and others use accounting information in decision making. Includes objectives, preparation, and uses of managerial accounting information, along with use of accounting information to identify and solve business problems. Credit will not be awarded to both ACC 200 and BUS 209.

**BUS 300. Professional Development Three. (1 Credit)**

Formerly BTS 300. Prerequisite: BUS 200 (with a grade of "C" or better) and a minimum of 30 hours. In this course, students focus on dining etiquette and conversation topics, debt and benefits, interviewing and personal selling, as well as motivations and professional portfolio building. Credit will not be awarded for students who have credit for BTS 300.

**BUS 301W. Fundamentals of Formal Commun.. (3 Credits)**

I, II. Formerly CCT 300W. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: ENG 102, ENG 102R, HON 105 (B), or HON 102 (with a grade of "C" or better) in each course; School of Business or BBA major or business minor; Sophomore Standing with an overall minimum 2.0 GPA. Additionally, corporate communication majors should take this course first in the Essentials Series. Students will learn principles and practices of written business communications. Students will review key genres of business communications, including memos, letters, executive summaries, reports, proposals, and visual presentation aids. This is a "writing intensive" course. Credit will not be awarded to students who have credit for CCT 300W.

**BUS 302. Essentials of Finance. (3 Credits)**

I, II Formerly FIN 300. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: ACC 200 or 201 or BUS 209, and ECO 230 (with a grade of "C" or better) in each course; and an overall minimum 2.0 GPA. Additionally, finance majors should take this course first in the Essentials Series. Firm financial motives, time value of money, risk analysis, elementary capital budgeting, residual dividend policy, elementary capital structure decisions, financial statement analysis, and international financial considerations viewed through the lens of risk assessment and management. Credit will not be awarded to both BUS 302 and FIN 300.

**BUS 303. Essentials of Org Behav/HR Mgt. (3 Credits)**

I, II. Formerly MGT 300. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: School of Business or BBA major; junior standing (a minimum of 60 hours) with an overall minimum 2.0 GPA. Additionally, management majors should take this course first in the Essentials Series. Comprehensive survey of the principles and practices of leading and managing people in organizations. Topics include staffing, onboarding, training, development, performance management, compensation, leadership, motivation, conflict management, organizational culture, teams, and ethics. Credit will not be awarded to students who have credit for MGT 300.

**BUS 304. Essentials of MIS. (3 Credits)**

I, II. Formerly CIS 300. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: BUS 206 or CIS 212 or INF 104 or TEC 161 (with a grade of "C" or better) in each course; and an overall minimum of 2.0 GPA. Additionally, computer information system majors should take this course first in the Essentials Series. Topics include: using databases to collect, organize, and manage "big data" datasets, computer networking, the Internet, mobile devices, the cloud, cybersecurity Safeguards, social networking, and legal requirements for safeguarding employee and customer data. Credit will not be awarded to students who have credit for CIS 300.

**BUS 305. Essentials of Marketing. (3 Credits)**

I, II. Formerly MKT 300. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Prerequisites: School of Business or BBA major; sophomore standing (a minimum of 30 hours) with an overall minimum 2.0 GPA. Additionally, marketing majors should take this course first in the Essentials Series. Overview of strategic processes in marketing goods and services to global markets. Focus on behavioral, organizational, and consumer variables in decision processes, and how to use marketing mix and marketing information to affect buyer decisions. Credit will not be awarded to students who have credit for MKT 300.

**BUS 306. Essentials of Supply Chain Mgt. (3 Credits)**

I, II. Formerly MGT 370. Corequisite/Prerequisite: BUS 101 (with a grade of "C" or better). Sophomore standing (a minimum of 30 hours) with an overall minimum 2.0 GPA. Strategic management of operations and supply chain with overall objective of global optimization. Topics include: strategic planning, demand forecasting, quality management, fulfillment, capacity planning, transportation management, logistics, distribution center management, project management, and inventory management. Credit will not be awarded for students who have credit for MGT 370.

**BUS 400. Professional Development Four. (1 Credit)**

Formerly BTS 400. Prerequisite: BTS 300 or BUS 300 (with a grade of "C" or better). In this course, students focus on business travel and cross cultural relationships, investments and retirement, applying for and obtaining a job, and work-life balance and community responsibility. Credit will not be awarded for students who have credit for BTS 400.

**BUS 402. Integrated Strategic Mgmt. (3 Credits)**

I, II. Formerly GBU 480. Prerequisites: CCT 300 or 300W or BUS 301W, CIS 300 or BUS 304, FIN 300 or BUS 302, MGT 300 or BUS 303, 370 or BUS 306, and MKT 300 or BUS 305 (with a grade of "C" or better) in each prerequisite course; senior standing (A minimum of 90 hours) with an overall minimum 2.0 GPA. A student must register for this course after completing all Essentials Series courses. This course synthesizes knowledge, skills, and abilities learned in the Fundamentals Series and Essentials Series courses to provide business students with the capability to manage, lead, and make decisions at all levels of an organization.

## CCT Corp Communication & Tech (CCT)

**CCT 201. Professional Communication. (3 Credits)**

I, II. Prerequisites: ENG 101 and 102 (or 105). Principles and practices of modern professional communication; various types of professional letters and reports are studied; emphasis on writing letters and reports. Gen. Ed. Block VIII.

**CCT 270. Entrepreneurship. (3 Credits)**

(3) I, II. Formerly CCT 101. A survey of entrepreneurship in the global economy. The processes of innovation, idea generation, and evaluation. Analysis for creating and launching a new business, based on the economic environment and types of business ownership.

**CCT 300W. Managerial Reports. (3 Credits)**

I, II. Prerequisites: ENG 101 and 102 or 102R (or 105) or HON 102, with a grade of "C" or better in each course; School of Business or BBA major or business minor; junior standing (a minimum of 60 hours) with an overall minimum 2.0 GPA. A writing intensive study of applications of communication theory, research methods, and information technology to communicate within organizations. Includes common communication tasks faced by managers; communication task and audience analysis; and collecting, organizing, and interpreting data. Emphasizes written and oral reporting.

**CCT 302. Desktop Publishing for the Business Office. (3 Credits)**

I, II. Prerequisite: CCT 200 or 250 or CIS 212 (with a minimum grade of "C"). Development of business document design techniques using Windows and desktop publishing.

**CCT 304S. Applied Entrepreneurship and Service Learning. (3 Credits)**

A. Prerequisite: CCT 270 (with a minimum grade of "C"). Provides entrepreneurship opportunities for students to apply skills and knowledge for integration of new business development, aid to existing businesses, and service learning strategies for the EKU region.

**CCT 310. International Business Communication. (3 Credits)**

A. Prerequisites: ENG 101 and 102 (or 105) (with a minimum grade of "C"). Characteristics of cultural differences that alter communication symbols and meanings for international business activity. Topics include culture profiles and conducting business, business protocol, international documents/U.S. documents, negotiation strategies, and oral presentations to intercultural business audiences.

**CCT 349. Applied Learning in Corporate Communication and Technology. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 30 hours for associate degree, 60 hours for baccalaureate degree. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work for each credit hour. Three hours required in Office Systems Technology. Three hours may be used as an upper division business elective in the undergraduate program. May be repeated up to 8 credit hours for the associate degree and 16 credit hours for undergraduate program.

**CCT 349A. Cooperative Study: Corporate Communication and Technology. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 30 hours for associate degree, 60 hours for baccalaureate degree. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work for each credit hour. Three hours required in Office Systems Technology. Three hours may be used as an upper division business elective in the undergraduate program. May be repeated up to 8 credit hours for the associate.

**CCT 349B. Cooperative Study: Corporate Communication and Technology. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 30 hours for associate degree, 60 hours for baccalaureate degree. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours required in Office Systems Technology. Three hours may be used as an upper division business elective in the undergraduate program. May be repeated up to 8 credit hours for the associate degree and 16 credit hours for undergraduate program.

**CCT 349C. Cooperative Study: Corporate Communication and Technology. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 30 hours for associate degree, 60 hours for baccalaureate degree. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours required in Office Systems Technology. Three hours may be used as an upper division business elective in the undergraduate program. May be repeated up to 8 credit hours for the associate degree and 16 credit hours for undergraduate program.

**CCT 349D. Cooperative Study: Corporate Communication and Technology. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 30 hours for associate degree, 60 hours for baccalaureate degree. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours required in Office Systems Technology. Three hours may be used as an upper division business elective in the undergraduate program. May be repeated up to 8 credit hours for the associate degree and 16 credit hours for undergraduate program.

**CCT 490. Corporate Comm and Tech. (1-6 Credits)**

A. May be retaken under different sub-topics to a cumulative maximum of six hours. Independent work, special topics, or seminars. Students must have the independent study proposal form approved by department chair prior to enrollment.

**CCT 520. Corporate Training. (3 Credits)**

A. Prerequisite: 90 credit hours completed. This course applies theories of learning and instructional development to office systems employee education and skills training. Topics include instructional design; strategy; technology; and the implementation, evaluation, and management of training in an organizational environment.

**CCT 550. Integrated Corporate Communication. (3 Credits)**

A. Prerequisite: senior or graduate standing. Examines effective integrated communication skills to achieve organizational objectives. Emphasizes analysis and application of communication process and strategies for managerial decision-making. Examines change process, corporate culture, and negotiation issues. Provides corporate training component.

**CCT 570. Web Design for Offices. (3 Credits)**

A. Prerequisites: CCT 250 or CIS 212 or INF 104 (with a minimum grade of "C"). Advanced development of business document design techniques with an emphasis on web design and multi-media resources. Geared for education, small offices or businesses, personal use, and not-for-profit organizations.

**CCT 580. Office Technology Seminar. (3 Credits)**

A. Prerequisites: CCT 250 or INF 104 or CIS 212 and CCT 300W or CCT 201 (with a minimum grade of "C" in each prerequisite course), 90 credit hours completed. This capstone course requires synthesis and applications of concepts related to current office systems topics.

**CCT 720. Corporate Training. (3 Credits)**

A. This course applies theories of learning and instructional development to office systems, employee education, and skills training. Topics include instructional design; technology; and the implementation, evaluation, and management of training in an organizational environment.

**CCT 750. Integrated Corporate Comm. (3 Credits)**

A. Prerequisite: senior or graduate standing. Examines effective integrated communication skills to achieve organizational objectives. Emphasizes analysis, application of communication process, and strategies for managerial decision-making. Examines change process, corporate culture, and negotiation issues. Provides corporate training component.

**CCT 770. Web Design for Offices. (3 Credits)**

A. Prerequisite: CCT 250 or CIS 212 or CSC 104. Advanced development of business document design techniques with an emphasis on web design and multi-media resources. Geared for education, small offices or businesses, personal use, and not-for-profit organizations.

**CCT 780. Office Technology Seminar. (3 Credits)**

A. Prerequisites: CIS 250 or CSC 104 or CIS 212, and CCT 300W or CCT 201, ninety hours completed. This capstone course requires synthesis and applications of concepts related to current office systems topics.

## CDF Child And Family Studies (CDF)

**CDF 132. Introduction to the Family. (3 Credits)**

II. Cross listed as WGS 132. Ecological and systems approach applied to public and private family concepts; historical changes and current status; relationships among individuals, families, consumers, and communities; status of women, men, children and the elderly; public policy related to changes in the family. Credit will not be awarded to students who have credit for WGS 132.

**CDF 203. Philosophical & Historical Foundations of the EC Profession. (3 Credits)**

I, II Corequisite CED 100. An orientation to the profession: Exploration of the qualities, expectations, & responsibilities of an EC professional. Relationships among early learning standards, history of the profession, interdisciplinary fields, professional organizations, & philosophical approaches. Background check College approved procedure must be ordered and paid for by the first day of class. Credit will not be awarded for both CDF 203 and EDF 203.

**CDF 210. Special Topics in Early Childhood Education:\_\_\_\_. (1-3 Credits)**

A. Selected topics in child development and early childhood program planning. May be retaken to a maximum of six hours provided topics vary.

**CDF 232. Identity and Sexuality. (3 Credits)**

I, II. An exploration of the changing attitudes about and among men/women and their effect on choices and interpersonal relationships. Emphasis will be on promotion and maintenance of positive mental, physical, emotional, and sexual development. Gen. Ed. Block VIII, and Element 6.

**CDF 235. Child Development: Conception-Eight Years. (3 Credits)**

I, II. Developmental characteristics and theory pertinent to children conception to age eight. Special emphasis on early childhood theoretical frameworks.

**CDF 236. Interaction and Guidance. (3 Credits)**

I, II. Overview of guidance strategies in fostering children's social competency within group or individually. Adults's role in various interactions (e.g. parent-child, teacher-child) and resources for working with families/parents (e.g. parent education workshop) will be explored.

**CDF 243. Introduction to Family Life Programs. (3 Credits)**

A. Prerequisite or Corequisite: CDF 132. Examination of programs which focus on forming partnerships with families through the public, private, and nonprofit sectors to support family and individual well-being. Career development and opportunities explored.

**CDF 246. Creative Activities and Materials for Young Children. (3 Credits)**

I, II. Prerequisite: CDF 235 or department approval. Survey of learning experiences in various curriculum areas. Planning activities, including techniques and materials, to provide environment appropriate to the age and background of young children for the individual child based on age, ability, culture and ethnicity.

**CDF 310. Observation and Assessment in ECE. (3 Credits)**

(3) I,II. Prerequisite: CDF 235. Authentic assessment approaches through observation of children in natural environments. Intentional planning and implementation of Developmentally Appropriate Practice in EC settings. Special emphasis on linking assessment to the EC curriculum.

**CDF 327. Family Involvement w/Children. (3 Credits)**

I, II. Study of effective relationships with families. Methods and materials useful in fostering family life education, including adult learning principles. Experiences include implementing family service plans, planning discussion groups, conducting home visits and parent-teacher conferences.

**CDF 327S. Family Involvement with Young Children. (3 Credits)**

I, II. Prerequisites: CDF 235 or CDF 241 and 244, 236, and 246 or CDF 345 or departmental approval. Study of effective relationships with families. Methods and materials useful in fostering family life education, including adult learning principles. Experiences include implementing family service plans, planning discussion groups, conducting home visits, and parent-teacher conferences. Includes 15 service learning hours.

**CDF 331. Marriage and Intimate Relationships. (3 Credits)**

I. Cross listed as WGS 331. The process within and types of intimate relationships in contemporary times. Topics include singlehood, partner selection, marriage, divorce, remarriage, longterm enduring marriage, and factors which affect the success of intimate relationships. Credit will not be awarded to students who have credit for WGS 331.

**CDF 342. Child and Adolescent Development. (3 Credits)**

II. Study of U.S. youth, utilizing systems theory and a life-course perspective approach. Effects of economic, social, and technological change on policies and programs affecting youth of diverse backgrounds.

**CDF 343. Prog Plan for Preschool Child. (3 Credits)**

I, II. Prerequisites: CDF 235, 236 and 246 or CDF 345 or department approval. Planning, implementation, and evaluation of developmentally and culturally appropriate environment for preschool children. Emphasis on inquiry learning, documentation, project work, collaborative work with families/colleagues/community, and various programs (e.g. Montessori, Head Start, HighScope).

**CDF 344. Prog Plan-Infants & Toddlers. (3 Credits)**

I, II. Prerequisite: CDF 235. Planning, implementation, and evaluation of developmentally and culturally appropriate environments for infants and toddlers. Emphasis is placed on the caregiver-infant relationship, developmental assessment, laboratory and field experiences, and environmental adaptations for special needs.

**CDF 349. Co-op or Appl Lrn: Child Devel. (0.5-8 Credits)**

(.5) I, II. Prerequisite: CDF349T. Co-requisite: CDF 405 & CDF 406. Collaborate with educators to observe and analyze education practices and theories of teaching and learning within various settings. Minimum of 40 hours field experience required.

**CDF 349A. Cooperative Study: Child Development. (0.5-8 Credits)**

A. Prerequisite: department approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. Maximum of three hours may be counted in major requirements toward degree.

**CDF 349B. Cooperative Study: Child Development. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies. Maximum of three hours may be counted in major requirements toward degree.

**CDF 349C. Cooperative Study: Child Development. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies. Maximum of three hours may be counted in major requirements toward degree.

**CDF 349D. Cooperative Study: Child Development. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies. Maximum of three hours may be counted in major requirements toward degree.

**CDF 351. Practicum for Early Childhood Practitioners. (3 Credits)**

A. Prerequisites: department approval, 2.5 cumulative GPA, minimum grade of C in all courses with CDF prefix. Enrollment limited to students who have earned a Child Development Associate credential with college credit. Teaching experience in early childhood programs emphasizing emergent curriculum, documentation, project work, and family involvement. Meetings for collaborative.

**CDF 363. Early Childhood Literacy. (3 Credits)**

(3) I,II. Prerequisite: Admission to Child & Family Studies or Departmental Approval. An exploration of the emergent literacy development of young children within the language-rich context of play. Emphasis on state & national language arts standards, 2nd language learners, literacy assessment, resources for literacy instruction. Course material presented within theoretical context.

**CDF 399. Early Childhood Practicum. (3-6 Credits)**

(3-6) III. Prerequisites: Admission to Child and Family Studies or department approval. Supervised practicum experience in programs serving young children & families. Focus on organizations at the public, private and non-profit sectors. Open to B.S. Child Development students only. Minimum of 160 hours of field experience.

**CDF 405. Prog Plan for Infant & Toddler. (3 Credits)**

(3) I, II. Formerly CDF 344. Prerequisite: Admission to Child and Family Studies or departmental approval. Planning, implementation, and evaluation of developmentally and culturally appropriate environments for infants and toddlers. Emphasis is placed on the caregiver-infant relationship, intentional teaching and curriculum/program assessment, laboratory and field experiences, and environmental adaptations for special needs. Includes. Credit will not be awarded for both CDF 344 and 405.

**CDF 406. Prog Plan for Preschool Chldrn. (3 Credits)**

(3) I,II. Prerequisites: Admission to Child and Family Studies or departmental approval. Planning, implementation, and evaluation of developmentally and culturally appropriate environments for preschool children. Emphasis on intentional teaching, curriculum/program assessment, inquiry learning, documentation, project work, collaborative work with families/colleagues/community, and various programs (e.g. Montessori, Head Start, High Scope). Credit will not be awarded to students who have credit for CDF 343.

**CDF 424. Diversity Awareness Prof Prac. (3 Credits)**

II. Prerequisite: junior standing. Professionals working with individuals and families today must develop cultural competency. With a focus on sensitivity and respect, this course provides an overview of diversity in society, including race, gender, socioeconomic status, sexual orientation, religion, and other forms of diversity.

**CDF 437. Family Stress and Resilience. (3 Credits)**

I, II. Prerequisite: CDF 132 or department approval. Study of stressors which may affect the quality of family life and resiliency factors which families and individuals employ to cope effectively with these stressors. Current research and models of family stress and resilience are studied.

**CDF 441. Family Dynamics in Adulthood and Aging. (3 Credits)**

A. Individual and familial development from young adulthood through death. Particular focus on changing family roles as members age. Emphasis on social changes affecting life satisfaction, living environments, and social relations of the middle-aged and elderly.

**CDF 443. Family Studies Practicum. (9 Credits)**

A. Prerequisites: CDF 132, 243, and 247 or 327; 3.0 GPA in major, and minimum of C in all courses with a CDF prefix; senior standing. Supervised practicum experience in family life education, family resources and community-based programs serving individuals and families in the public, private, and nonprofit sectors.

**CDF 449. Special Problems in Child Development. (1-3 Credits)**

A. Prerequisites: department approval and a 3.0 GPA (major). May be retaken to a maximum of six hours provided topics vary. The student chooses a problem and works under the supervision of the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**CDF 450. Early Childhood Practicum. (9 Credits)**

I, II. Prerequisites: CDF 247 or 327, 248 or 343 and 246 or 345, 3.0 GPA in major requirements, and minimum grade of C in all courses with a CDF prefix. Practicum focusing on designing and equipping the environment, implementing learning experiences, developing strategies for guiding young children, and arranging effective communication for family involvement. Meetings for collaborative planning and reflective discussion to make program decisions.

**CDF 499. Supervised Teaching IECE. (12 Credits)**

I, II. Prerequisites: completion of all major courses, supporting courses, special education minor, and professional courses. Practice teaching in programs for children ages birth through five years focusing on organizing environments for learning, planning and implementing developmentally appropriate curricula, selecting and implementing guidance strategies, assessing individual strengths and concerns of children and their families and colleagues for the benefit of children.

**CDF 501. Prenatal and Infant Development. (3 Credits)**

I, II, A. Growth and development from conception to three years. In-depth study of theories and issues related to development during the first three years and before birth. Impact of family, education, and community will be explored.

**CDF 538. Research Analysis in Child and Family Studies. (3 Credits)**

I. Prerequisites: CDF 235 and six hours in CDF; or department approval. Students will acquire the skills required to read and evaluate professional research literature in child and family studies by examining current studies. Students will also compare and contrast the treatment of current issues in their field in both popular and professional writing.

**CDF 541. Infant- Toddler Development and Group Care. (3 Credits)**

A. Growth and development from conception to three years. Emphasis on family intervention, appropriate policies and practices for group care, assessment, disabilities, multicultural and gender issues, and caregiver professional growth.

**CDF 544. Early Childhood Development and Program Planning. (3 Credits)**

A. Corequisite CED 450. Theory pertinent to early childhood development and learning including constructivism, socially-mediated intelligence, multiple intelligences and creativity. Emphasis on emergent curriculum and teaching strategies reflecting social collaboration such as webbing, project work, and multimedia documentation.

**CDF 547. Organization and Administration of Early Childhood Programs. (3 Credits)**

I. Prerequisites: CDF 327 or 247, 343 or 248, and 344 or department approval. Review of the theories influencing the definition of goals, philosophies and rationales for establishment of early childhood programs (0-5), study of the procedures for organizing early childhood programs, and discussion of the management processes for administering quality early childhood programs.

**CDF 550. Child and Family Studies Topics:\_\_\_\_. (1-3 Credits)**

A. Study of various topics in child and family studies selected to meet student needs and interests. May be retaken to a maximum of six hours provided topics vary.

**CDF 701. Adv Prenatal & Infant Develop. (3 Credits)**

I, II, A. Growth and development from conception to three years. In-depth study of theories and issues related to development during the first three years and before birth. Impact on family, education, and community will be explored.

**CDF 738. Research Analysis Child & Fam. (3 Credits)**

I. Prerequisites: CDF 235 or 241 and 244 and six hours in CDF, or departmental approval. Students will acquire the skills required to read and evaluate professional research literature in child and family studies by examining current studies. Students will also compare and contrast the treatment of current issues in their field in both popular and professional writing.

**CDF 741. Infant Toddler Dev&Group Care. (3 Credits)**

A. Growth and development from conception to three years. Emphasis on family intervention, appropriate policies and practices for group care, assessment, disabilities, multicultural and gender issues, and caregiver professional growth.

**CDF 744. Early Child Dev&Prog Planning. (3 Credits)**

A. Theory pertinent to early childhood development and learning including constructiveness, socially mediated intelligence, multiple intelligence and creativity. Emphasis on emergent curriculum and teaching strategies reflecting social collaboration such as webbing, project work, and multimedia documentation.

**CDF 747. Organ & Admin Early Child Prog. (3 Credits)**

II. Prerequisites: CDF 327 or 247, 343 or 248, and 344, or departmental approval. Review of the theories influencing the definition of goals, philosophies and rationales for establishment of early childhood programs (0-5), study of procedures for organizing early childhood programs, and discussion of the management processes for administering quality early childhood programs.

**CDF 750. Child & Fam Studies Topics:\_\_\_\_. (3 Credits)**

A. Workshops on selected topics in child and family studies. May be retaken to a maximum of six hours provided topics vary. Students having received credit for the course at the 500 level may take this course to a maximum of six hours, including the undergraduate credits. Those who have not received credit for this course at the undergraduate (500) level may retake it to a maximum of six hours credit.

**CDF 849. Spec Prob Child Development. (1-3 Credits)**

A. Prerequisite: CDF 548 or 748 or instructor approval. The student chooses a problem and works under the supervision of the instructor. May be taken to a maximum of six hours provided topics vary. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## CDS Commun Disorders & Sci (CDS)

**CDS 090. Speech-Language Laboratory. (3 Credits)**

A. Clinical approach to communication problem(s). Instruction in proper use of speech mechanism. Individualized remediation of articulation, fluency, language, and/or voice problems. Concurrent enrollment in Speech-Language-Hearing Clinic may be required. Institutional credit; cannot be used toward graduation.

**CDS 874. Grad Pract: Speech-Lang Path. (3 Credits)**

A. Prerequisite: admission to communication disorders and sciences program or by departmental permission. Supervised clinical practice in speech-language pathology. Must be retaken for a total of nine hours for the MA degree. Minimum of 145 field/clinical experience hours required across three semesters.

## CED College of Education (CED)

### **CED 100. Clinical I: Introduction to the Education Profession. (0 Credits)**

I, II. Corequisite: EDF 203. Guided laboratory-based experiences emphasizing the identification and assessment of the roles and responsibilities of teachers and other education professionals and components of the education system. (Laboratory-based clinical experience- a minimum of 10 hours is required; additional hours may be required based upon candidate performance).

### **CED 150. Clinical Transition: Education Profession. (0.5 Credits)**

Corequisite: EDF 310. Guided laboratory-based experiences emphasizing the education profession. (laboratory-based clinical experience - a minimum of 10 hours is required; additional hours may be required based upon candidate performance.)

### **CED 200. Clinical II: Understanding the Learner. (0 Credits)**

I, II. Prerequisites: EDF 203(C) or 310(C); CED 100 or 150 (grade of B or higher). Corequisites: EDF 219; or CDF 235 for IECE majors. Guided laboratory-based experiences emphasizing the assessment and analysis of student learning and engagement and the school environment from varied learning theory perspectives, (laboratory-based clinical experience - a minimum of 20 hours is required; additional hours may be required based upon candidate performance).

### **CED 300. Clinical III: Curriculum and Instructional Design. (0.5 Credits)**

I, II. Prerequisite CED 200 and admission to professional education. Co-requisite: EMS300 or 300W. Guided school-embedded experiences that emphasize impacting student growth through well-planned and aligned instructional units and lessons, (school-embedded clinical experience - a minimum of 45 hours is required; additional hours may be required based upon candidate performance). Must earn B or higher for professional education.

### **CED 350. Integrated Clinical Experiences. (0.5 Credits)**

(.5). I, II. Prerequisite: admission to professional education, CED 300 (B). Co-requisite: EMS 300, EMS 300W, EDC 300, EDF 413, EMS 490, SED 350, SED 390, or SED 510. Integrated school-embedded experiences that emphasize skills and performances related to the content of professional core course. Successful completion of the clinical experiences and course expectation is required for candidates to progress in their teaching programs. CED 350 may be retaken for up to 1 full credit hour. Must earn a grade of B or higher for professional education.

### **CED 375. Clinical V: Practicing Teaching. (1 Credit)**

Prerequisite: Admission to Professional Education or Dean approval. Corequisite: CED 450. Supervised, sustained practice teaching experiences in an assigned instructional setting. Experiences include individual, small group and whole class teaching opportunities. (school-embedded clinical experience - a minimum of 40 hours is required; additional hours may be required based on candidate performance).

### **CED 400. Clinical IV: Diagnosis and Prescription. (0.5 Credits)**

I, II. Prerequisite: CED 300 (B or higher) and admission to professional education or Dean approval. Corequisites: EDF 413 and EMS 490; or SED 352 and SED 590 for IECE majors. Guided school-embedded experiences emphasizing the development, implementation, interpretation and reporting of a variety of assessment tools for learners, the classroom and school environment and the subsequent design of instruction. (School-embedded clinical experience- a minimum of 50 hours is required; additional hours may be required based upon candidate performance). Must earn a B or higher for Professional Education.

### **CED 450. Clinical V: Practicing Teaching. (1 Credit)**

I, II. Prerequisite: CED 400 (B or higher) and admission to professional education or Dean approval. Corequisite: ELE 446, 446W, or EMG 447, or ESE 540, 543, 549, 550, 552, 553, 561, 556, 573, 579, 587, or SED 436 or IECE major. Supervised, sustained practice teaching experiences in an assigned instructional setting. Experiences include individual, small group and whole class teaching opportunities. (School-embedded clinical experience- a minimum of 80 hours is required; additional hours may be required based upon candidate performance). Must earn "B" or higher for Professional Education.

### **CED 499. Clinical VI: The Professional Semester. (3-12 Credits)**

Prerequisites: CED 450 (B or higher) and admission to the professional semester. Full-time assignment in an accredited school to observe, participate, and teach in classroom settings with special emphasis on the impact of instruction on student learning. (School embedded clinical experience - a minimum of 70 days is required). CED 499 may only be taken with one additional course.

### **CED 499I. Clinical VI: The Professional Semester- International. (1-12 Credits)**

I, II. Prerequisite: CED 450 and Admission to the Professional Semester, and application to student teach abroad with committee recommendation to the College of Education Dean for approval. Must successfully complete all pre-student teaching abroad seminars and requirements. Must demonstrate above average knowledge, skills and dispositions of a professional teacher prior to CED 499I. Overall EKU GPA must be 3.0 or above. Part-time assignment for four weeks in an EKU approved international school to observe, participate, and teach in classroom settings with special emphasis on the impact of instruction on student learning (school-embedded clinical experience – a minimum of 70 total days is required will be a combination of CED 499 and 499I).

### **CED 810. Clinical VII: Learn, Teach, Sc. (0.5 Credits)**

Co-requisite: EGC 820. Guided laboratory-based experiences emphasizing the developmental levels of learners and the roles and responsibilities of teachers and other education professionals within an education system (laboratory-based clinical experience - minimum of 20 hours is required; additional hours may be required based upon candidate performance).

### **CED 820. Clinical VIII: Design Instruct. (0.5 Credits)**

Prerequisites: CED 810 (B). Co-requisite: EGC 830. Guided school-embedded experiences that emphasize impacting student growth through well-planned and aligned instructional units and lessons. (school-embedded clinical experience – a minimum of 40 hours is required; additional hours may be required based upon candidate performance).

### **CED 830. Clinical IX: Diagnosis & Presc. (1 Credit)**

Prerequisites: CED 820 (B). Co-requisites: EMS 874 and SED 800. Guided school-embedded experiences emphasizing the development, implementation, interpretation and reporting of a variety of assessment tools for learners, the classroom and school environment and the subsequent design of instruction. (school-embedded clinical experience – a minimum of 80 hours is required; additional hours may be required based upon candidate performance).

**CED 840. Clinical X: Practicing Teachin. (0.5-1 Credits)**

Prerequisite: CED 830 with a grade of B or higher. Corequisite: EGC 847 and one of the following: AED 740, EGC 835, ELE 719, ELE 821, ELE 823, ELE 824, ELE 825, ESE 740, ESE 743, ESE 749, ESE 750, ESE 752, ESE 753, ESE 761, ESE 766, ESE 773, ESE 779, MAE 750, or MUE 779. Supervised, sustained practice teaching experiences in an assigned instructional setting. Experiences include individual, small group and whole class teaching opportunities. (school-embedded clinical experience – a minimum of 40-80 hours is required; additional hours may be required based upon candidate performance). May be retaken to a maximum of 2 hours.

**CED 855. Clinical Practice. (0.5-3 Credits)**

Prerequisite: 3.0 or higher cumulative GPA. Corequisite: Enrollment in Option 6 or proficiency evaluation program with College of Education. Supervised, sustained practice teaching experiences in an assigned instructional setting while enrolled in the Option 6 or proficiency evaluation program. Repeatable to a maximum of 9 hours. Supervision/Mentoring: Candidates will complete 40-80 hours of clinical experience.

**CED 896. Proficiency Cert Grad Practic.. (3 Credits)**

Prerequisite: Chair approval. Graduate practicum for proficiency candidates in an accredited school to observe, participate, and teach in classroom settings with special emphasis on the impact of instruction on student learning (school-embedded clinical experience). Candidates must earn a minimum grade of at least a B in CED 896. Repeatable for up to 6 hours.

**CED 897. Clinical XI: Grad Practicum. (3-6 Credits)**

Prerequisites: CED 840 (B) and or chair approval. Graduate practicum in an accredited school to observe, participate, and teach in classroom settings with special emphasis on the impact of instruction on student learning (school-embedded clinical experience). Candidates must earn a minimum grade of at least a B in CED 897. Repeatable for up to 6 hours.

## CHE Chemistry (CHE)

**CHE 100. Inquiry Chemistry for Middle School Teachers. (3 Credits)**

A. Prerequisite: completion of all academic readiness requirements in English and reading or completion of ENG 101R and Math ACT score of 19 or higher, Math SAT score of 500 or higher, or passing score on the math placement test, or MAT 105 or higher; pre-teaching or teaching middle school, special education, and DHH education majors only, Activity oriented chemistry; elements, molecules, solutions, acids and bases, reactions, energy and environmental topics. 2 Lec/2 Lab. Gen. Ed. E-4 [NS].

**CHE 101. Introductory Chemistry. (3 Credits)**

I, II. Prerequisite: completion of all academic readiness requirements in English and reading or completion of ENG 101R; and Math ACT score of 19 or higher, or passing score on math placement test, or Math SAT score of 500 or higher, or MAT 105 or higher. Corequisite: CHE 101L. For students who plan to take no more than one year of chemistry. Basic principles of structure and properties of matter, chemical nomenclature and reactivity. Relates chemistry concepts to everyday life phenomena. A withdrawal from CHE 101 must be matched by a withdrawal from CHE 101L. Gen. Ed. E-4 with CHE 101L [NS].

**CHE 101L. Introductory Chemistry Lab. (1 Credit)**

I, II. Prerequisite: completion of all developmental requirements in English and reading. Prerequisite or Corequisite: CHE 101. Laboratory component of CHE 101. Basic laboratory techniques, methods of separation, types of chemical reactions, solution preparation, titrations, household chemicals, molecular modeling. 2 Lab. Gen. Ed. IVB with CHE 101. Credit will not be awarded for both CHE 101L and CHE 107.

**CHE 102. Introductory Chemistry II. (3 Credits)**

I, II. Prerequisite: CHE 101 and 101L or CHE 111 and 111L. Prerequisite or Corequisite: CHE 102L. Continuation of CHE 101. A survey on the classes of organic molecules including their common uses and physical and chemical properties. In addition, an introductory look at the structure and function of biological macromolecules. Gen. Ed. VII (NS) with CHE 102L. Withdrawal from CHE 102 must be matched by a withdrawal from CHE 102L.

**CHE 102L. Introductory Chemistry Lab II. (1 Credit)**

I, II. Prerequisite: CHE 101 and 101L. Prerequisite or Corequisite: CHE 102. Lab component of CHE 102. Perform basic organic reactions and laboratory procedures including melting point, distillation, and recrystallization. 2 Lab. Gen. Ed. VII (NS) with CHE 102.

**CHE 104. Inquiry Physical Science for Elementary Teachers. (3 Credits)**

I, II. Cross-Listed with PHY 104. Prerequisite: Elementary, special education elementary, and DHH elementary education majors only, sophomore standing, and MAT 112 or 112B or higher. An activity-oriented conceptual course in the physical sciences. Topics include the structure and properties of matter, heat and temperature, forces, motion, magnets, energy, and sound waves. Credit will not be awarded for students who have credit for PHY 104. 2 Lec/2 Lab.

**CHE 105. Chemistry for the Health Sciences. (3 Credits)**

I, II. Prerequisite: completion of all academic readiness indicators in English and reading or completion of ENG 101R; and math ACT score of 19 or higher, math SAT score of 500 or higher or passing score on the math placement test. or, MAT 105 or higher or STA 215 or higher. Prerequisite or Corequisite: CHE 105L. An introductory course for students in allied health. Principles of bonding structure, and reactivity related to biological processes. A withdrawal from CHE 105 must be matched by a withdrawal from CHE 105L. Gen.Ed. VII (NS) or IVB with CHE 105L.

**CHE 105L. Health Science Chemistry Lab. (1 Credit)**

I, II. Prerequisite: completion of all academic readiness requirements in English and reading or completion of ENG 101R; Math ACT score of 19 or higher, Math SAT score of 510 or higher, MAT105 or higher, or passing score on math placement test, or STA 215 or higher. Prerequisite or Corequisite: CHE 105. Laboratory experiments that demonstrate chemical concepts and laboratory techniques related to the health science profession. 2 Lab. Gen. Ed, VII (NS) or IVB with CHE 105.

**CHE 107. Introductory Chemistry Lab. (1 Credit)**

I, II. Prerequisite: completion of all developmental requirements. Prerequisite or Corequisite: CHE 101 or CHE 105. Laboratory component of CHE 101 and CHE 105. Basic laboratory techniques, methods of separation, types of chemical reactions, solution preparation, titrations, household chemicals, molecular modeling. 2 Lab. Gen. Ed. IVB with CHE 101 or CHE 105.

**CHE 110. General Chemistry Preparation. (3 Credits)**

A. Prerequisite: Completion of all developmental requirements. Prepares students for further studies in general chemistry. Topics will include introduction to matter, chemical formulas and reactions, bonding and molecules, chemical calculations and the periodic table.

**CHE 111. General Chemistry. (3 Credits)**

I, II. Prerequisite or Corequisite: CHE 111L and ACT math score of 22 or higher; or SAT math score of 530; or MAT 112B (C or better) or MAT 114 (C or better) or higher or departmental approval. Principles of atomic and molecular structure and reactivity, stoichiometry, states of matter. Prepares students for further studies in chemistry. One year of high school chemistry is recommended. A withdrawal from CHE 111 must be matched by a withdrawal from CHE 111L. Gen. Ed. VII (NS) or IVB with CHE 111L.

**CHE 111L. General Chemistry Lab I. (1 Credit)**

I, II. Formerly CHE 115. Prerequisite or Corequisite: CHE 111. Laboratory component of CHE 111. Basic laboratory techniques, methods of separation, types of chemical reactions, solution preparation and standardization, titrations, molecular modeling, qualitative analysis, gases, virtual labs on computer. Credit will not be awarded to students who have credit for CHE 115. 3 Lab. Gen. Ed. IVB with CHE 111.

**CHE 112. General Chemistry II. (3 Credits)**

I, II. Prerequisite: CHE 111 and 111L with a grade of "C" or better. Prerequisite or Corequisite: CHE 112L or CHE 112HL with a grade of "C" or better. Continuation of CHE 111. Kinetics and equilibrium, solution chemistry, energy changes in chemical reactions, descriptive inorganic chemistry. Prepares students for further studies in chemistry. A withdrawal from CHE 112 must be matched by a withdrawal from CHE 112L or CHE 112HL. Gen. Ed. VII (NS) or IVB with CHE 112L or CHE 112HL.

**CHE 112L. General Chemistry Lab. (1 Credit)**

I, II. Formerly CHE 116. Prerequisites: CHE 111 and 111L with a grade of "C" or better. Prerequisite or Corequisite: CHE 112 with a grade of "C" or better. Laboratory component of CHE 112. Kinetics, equilibrium, UV-VIS spectroscopy, introductory qualitative and quantitative analysis, electrochemistry, virtual labs on computer. Credit will not be awarded to students who have credit for CHE 116. 3 Lab. Gen. Ed. IVB with CHE 112.

**CHE 200. Volunteering in Chemistry. (0 Credits)**

(0) A. An exposure to chemistry outreach activities, including, but not limited to exploring chemical research projects, organizing chemistry community service, and assisting other chemistry departmental events. Students can choose the focus of the volunteering in each semester. Passing grade achieved for attending 80% of the designated activities in each semester.

**CHE 250. Descriptive Inorganic Chemistry. (2 Credits)**

(2) A. Prerequisite: CHE 112 and CHE 112L with grade of 'C' or better. Basic principles of inorganic chemistry including the discovery of the elements, their properties, and the significance of the Periodic table; atomic structure, bonding models, acid-base chemistry, oxidation-reduction chemistry, and coordination chemistry. (2 Lec)

**CHE 261. Organic Chemistry Preparation. (3 Credits)**

A. Prepares students for further studies in organic chemistry. This course will emphasize fundamental concepts and help students develop a productive mindset for studying Organic Chemistry.

**CHE 325. Analytical Chemistry. (3 Credits)**

A. Prerequisite: CHE 112 and 112L (C or better). Prerequisite or Corequisite: CHE 325L. Introduces chemical analysis (with statistical evaluations) focusing on the principles of stoichiometry, chemical equilibrium, titrimetric and spectrophotometric analysis, potentiometry, and analytical separation processes. 3 Lec. A withdrawal from CHE 325 must be matched by a withdrawal from CHE 325L.

**CHE 325L. Analytical Chemistry Lab. (2 Credits)**

A. Prerequisite: CHE 112 and 112L (C or better). Prerequisite or Corequisite: CHE 325. Lab component of CHE 325. Lab course designed to introduce the principles of wet chemical techniques and basic instrumental analysis through experimentation. 4 Lab.

**CHE 349. Applied Learning in Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: sixteen, baccalaureate. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major or minor requirements.

**CHE 349A. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: sixteen, baccalaureate. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major or minor requirements.

**CHE 349B. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. May not be used to satisfy area, major or minor requirements.

**CHE 349C. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. May not be used to satisfy area, major or minor requirements.

**CHE 349D. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. May not be used to satisfy area, major or minor requirements.

**CHE 349E. Cooperative Study: Chemistry. (0.5-8 Credits)**

A. Work in placements related to academic studies. May not be used to satisfy area, major or minor requirements.

**CHE 361. Organic Chemistry I. (3 Credits)**

I, II. Prerequisite: CHE 112 and 112L (C or above). Prerequisite or Co-requisite: CHE361L. Bonding; structure; reaction theory; aliphatic hydrocarbons; functional groups; stereochemistry; aromatic hydrocarbons; spectroscopy; substitution and elimination reactions. A withdrawal from CHE 361 must be matched by a withdrawal from CHE 366.

**CHE 361L. Organic Chemistry Lab I. (1 Credit)**

I, II. Formerly: CHE 366. Prerequisite or Corequisite: CHE 361. Laboratory component of CHE 361. Experimental work to illustrate principles of organic chemistry. Basic techniques including separation and spectroscopic methods; and selected syntheses. 3 Lab. Credit will not be awarded to students who have credit for CHE 366.

**CHE 362. Organic Chemistry II. (3 Credits)**

I, II. Prerequisites: CHE 361 and CHE361L ("C" or above). Prerequisite or Co-requisite: CHE362L. Alcohols and ethers; aldehydes and ketones; carboxylic acids and derivatives; carbanions; amines; phenols; carbohydrates and amino acids. A withdrawal from CHE 362 must be matched by a withdrawal from CHE 362L.

**CHE 362L. Organic Chemistry Lab II. (1 Credit)**

I, II. Formerly: CHE 367. Prerequisites: CHE 361 and CHE 361L with a "C" (2.0) or better. Prerequisite or Corequisite: CHE 362. Laboratory component of CHE 362. Experimental work to illustrate principles of organic chemistry. Selected chemical syntheses and advanced techniques such as separation and spectroscopic methods. 3 Lab. Credit will not be awarded to students who have credit for CHE 367.

**CHE 385W. Chemical Literature. (3 Credits)**

A. Prerequisites: CHE 112(C) and ENG 102, 105(B), or HON 102. Course introduces chemical literature searching, and methods for disseminating chemical data. At the end of this course students will be able to demonstrate the skill to create effective and appropriate styled chemical reports and presentations. Credit will not be awarded to students who have credit for CHE 385.

**CHE 411. Practicum. (1-3 Credits)**

(1-3) A. Departmental Approval. Students will gain specific experiences through participation in planning, testing, analysis, and/or required maintenance in a designated undergraduate chemistry course. Formal project assigned by faculty mentor. May be retaken for a maximum of three hours. 3-9 lab.

**CHE 425. Instrumental Analysis. (3 Credits)**

A. Cross-listed as FOR 411. Prerequisites: CHE 325, 325L, 362, 362L; PHY 132 (or 202); MAT 234 (C or better in each course). Prerequisite or Co-requisite: CHE 425L. Fundamental principles of the operation and application of an analytical instrumentation including spectroscopy, chromatography, electrochemistry, and mass spectrometry found throughout industrial, government, forensic, and/or research environments is presented. Credit will not be awarded to those who have received credit for FOR 411 or CHE 525. 3 Lec.

**CHE 425L. Instrumental Analysis Lab. (1 Credit)**

A. Co-requisite: CHE 425. Lab component of CHE 425. Lab course designed to provide hands-on experience with modern chemical instrumentation for qualitative and quantitative measurements found throughout industrial, government, and/or research environments. Credit will not be awarded for both CHE 425L and FOR 411L. 3 Lab.

**CHE 430. Biochemistry of Macromolecules. (3 Credits)**

A. Prerequisites: CHE 362 and 362L. Structure, analysis, and organization of proteins, nucleic acids, and lipids; physical and organic mechanisms of enzyme action; chemistry of membrane action and the immune system. Credit will not be awarded for both CHE 430 and CHE 530.

**CHE 431. Metabolic Biochemistry. (3 Credits)**

A Prerequisites: CHE 430 (C or better). Continuation of CHE 430. Chemistry, catabolism, and biosynthesis of carbohydrates, lipids, amino acids, and nucleotides; mechanisms of metabolic control.

**CHE 432. Biochemistry Laboratory. (1 Credit)**

A. Prerequisite or Corequisite: CHE 430 or 431 or departmental approval. Experimental techniques characteristic of biochemical research. Purification and characterization of proteins and nucleic acids; use of computers in modeling biochemistry data. 3 Lab. Credit will not be awarded for both CHE 432 and CHE 532.

**CHE 450. Inorganic Chemistry. (3 Credits)**

I. Prerequisite: CHE 250 (C) and CHE 362 (C). Principles of inorganic chemistry with emphasis on advanced chemical bonding models and their applications to solid-state, coordination, organometallic, bioinorganic, and materials chemistry. (3 Lec).

**CHE 485. Chemistry Seminar. (1 Credit)**

I, II. Prerequisite: CHE 362 (C). Presentation of specific chemical research from recent literature and/or performed experimentation to members of the chemistry faculty and departmental majors. One weekly meeting. May be retaken to a maximum of three hours. Cannot be taken concurrent with CHE 385W.

**CHE 495A. Independent Chemical Research. (1 Credit)**

A. Prerequisite: CHE 112 and departmental approval. An introduction to research in all fields of chemistry. Literature-based assigned research project with a faculty mentor that will require a formal research report. May be retaken to a maximum of three hours. Student must have the independent study proposal form approved by faculty mentor and departmental chair prior to enrollment. Credit will not be awarded for both CHE 495 and CHE 495A. 3 Lab.

**CHE 495B. Chemistry Laboratory Independent Research: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisites: CHE 112 and departmental approval. Objectives and techniques of chemical research. Problems in all fields of chemistry. May be retaken to a maximum of nine hours. Students must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. Credit will not be awarded for both CHE 495 and CHE 495B.

**CHE 501. Chemtopics: \_\_\_\_\_. (3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry such as environmental chemistry or industrial chemistry. Topics will vary according to students needs. May be retaken to a maximum of six hours.

**CHE 501A. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501B. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501C. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501D. Chemtopics. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501E. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 501L. Chemtopics Lab: \_\_\_\_\_. (1 Credit)**

A. Prerequisite: departmental approval. Laboratory experiences chosen from specialized areas of chemistry including advanced chemical instrumentation/analysis, synthetic methods, computational chemistry, or molecular modeling. Topics vary according to student needs. May be retaken to a maximum of two hours. 3 Lab.

**CHE 502. Polymers & Particles. (1 Credit)**

A. Prerequisite: CHE 361/361L ('C' or better in both). Study of the structure, synthesis, preparation, characterization, and properties of synthetic polymers, supramolecular aggregates, and/or meso- or nanoscale materials. (3 Lab)

**CHE 515. Synthetic & Analytical Methods. (3 Credits)**

A. Prerequisites: CHE 362, 362L, 425 (or FOR 411), 425L (or FOR 411L) (C or better in each course). Pre or Corequisite: CHE 450 (C or better). Synthesis, isolation, purification, and characterization (including spectroscopy and other analytical methods) of inorganic and organic compounds and mixtures. Other methods include handling of air and moisture sensitive compounds and molecular computations. 3 Lec/6 Lab.

**CHE 515L. Synthetic & Analytical Methods Lab. (2 Credits)**

A. Prerequisites: CHE 362, 362L, 425 (or FOR 411), 425L (or FOR 411L) (C or better in each course). Senior standing. Prerequisite or Corequisite: CHE 450 (C or better), CHE 515 or CHE 715 (C or better). Synthesis, isolation, purification, and characterization (including spectroscopy and other analytical methods) of inorganic and organic compounds and mixtures. Other methods include handling of air and moisture sensitive compounds and molecular computations. 6 Lab.

**CHE 520. Mass Spectrometry. (3 Credits)**

A. Prerequisite: CHE 362 (C). Topics include types of mass spectrometers; qualitative and quantitative mass spectrometry, different ionization processes, sample inlet systems (including chromatography systems), and interpretation of mass spectral data. Credit will not be awarded for both CHE 520 and FOR 475.

**CHE 570. Biophysical Chemistry I. (4 Credits)**

I, II. Prerequisite: CHE 361 (C or better), BIO 111 or higher (C or better), and either MAT 234 or MAT 261. Prerequisite or Corequisite: PHY 131 or 201. An introduction to physical and chemical explanations of biological phenomenon and physical chemistry theories and methodologies applied on biological systems. Topics include thermodynamics, chemical equilibrium, kinetics, quantum chemistry, spectroscopy, and selected topics. 3 Lec/ 2.5 lab. Credit will not be awarded for CHE 470, 570, 770.

**CHE 574. Physical Chemistry I. (3 Credits)**

A. Prerequisite: CHE 361 (C or better). Prerequisites or Corequisites: CHE 574L and MAT 244 and PHY 131 or 201 (C or better in each course). A study of thermodynamic properties in physical and chemical systems; electrochemical processes; rates and mechanisms of chemical reactions. Credit will not be awarded for both CHE 574 and CHE 471.

**CHE 574L. Physical Chemistry Lab I. (1 Credit)**

A. Prerequisite: CHE 325 and 325L (C or better in each course). Prerequisites or Corequisites: CHE 574 and CHE 385 or 385W (C or better in each course). Laboratory component of CHE 574. Experimental work to illustrate principles of physical chemistry that include thermochemistry, thermodynamics, equilibrium, and reaction kinetics. 3 Lab.

**CHE 575. Physical Chemistry II. (3 Credits)**

A. Prerequisite: CHE 361 (C or better). Prerequisite or Corequisite: CHE 575L and MAT 254 and PHY 132 or 202 (C or better in each course). An introduction to quantum mechanics as applied to model, atomic, and molecular systems; applications of atomic and molecular spectroscopy; introduction to computational chemistry. Credit will not be awarded for both CHE 575 and CHE 472.

**CHE 575L. Physical Chemistry Lab II. (1 Credit)**

A. Prerequisite: CHE 325 and 325L (C or better in each course). Prerequisites or Corequisites: CHE 575 and CHE 385 or 385W (C or better in each course). Laboratory component of CHE 575. Experimental work to illustrate principles of physical chemistry including UV-visible, infrared, and fluorescence spectroscopic techniques, fundamentals of laser operation, statistical mechanics, and computational chemistry. 3 Lab.

**CHE 576. Advanced Physical Chemistry. (3 Credits)**

A. Prerequisite: CHE 575 (MAT 353 Recommended) or departmental approval. Intermediate and advanced topics in thermodynamics, kinetics, structure and bonding. Credit will not be awarded to students who have credit for CHE 572.

**CHE 701. Chemtopics: \_\_\_\_\_. (3 Credits)**

A. Prerequisite: instructor approval. Topics to be chosen from a current and/or specialized area of chemistry such as environmental chemistry or industrial chemistry, and will vary according to students' needs. May be retaken to a maximum of six hours.

**CHE 701A. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701B. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701C. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701D. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701E. Chemtopics: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics to be chosen from a current and/or specialized area of chemistry based on interests and/or need: A: Analytical, B: Biochemistry, C: Inorganic, D: Organic, or E: Physical. May be retaken to a maximum of six hours.

**CHE 701L. Chemtopics Lab: \_\_\_\_\_. (1 Credit)**

A. Prerequisite: departmental approval. Laboratory experiences chosen from specialized areas of chemistry including advanced chemical instrumentation/analysis, synthetic methods, computational chemistry, or molecular modeling. Topics vary according to student needs. May be retaken to a maximum of two hours. 3 Lab.

**CHE 702. Polymers & Particles. (1 Credit)**

A. Study of the structure, synthesis, preparation, characterization, and properties of synthetic polymers, supramolecular aggregates, and/or meso- or nanoscale materials. (3 Lab)

**CHE 715. Synthetic & Analytical Methods. (3 Credits)**

A. Corequisite: CHE 715L Synthesis, isolation, purification, and characterization (including spectroscopy and other analytical methods) of inorganic and organic compounds and mixtures. Other methods include handling of air and moisture sensitive compounds and molecular computations. 3 Lec/6 Lab.

**CHE 715L. Synthetic & Analytical Methods Lab. (2 Credits)**

A. Corequisite: CHE 715. Synthesis, isolation, purification, and characterization (including spectroscopy and other analytical methods) of inorganic and organic compounds and mixtures. Other methods include handling of air and moisture sensitive compounds and molecular computations. 6 Lab.

**CHE 720. Mass Spectrometry. (3 Credits)**

A. Prerequisite: Departmental approval. Topics include types of mass spectrometers: qualitative and quantitative mass spectrometry, different ionization processes, sample inlet systems (including chromatography systems), and interpretation of mass spectral data.

**CHE 770. Biophysical Chemistry I. (4 Credits)**

I, II. An introduction to physical and chemical explanations of biological phenomenon and physical chemistry theories and methodologies applied on biological systems. Topics include thermodynamics, chemical equilibrium, kinetics, quantum chemistry, spectroscopy, and selected topics. 6 Lec/Lab Credit will not be awarded for both CHE 770 and 570.

**CHE 774. Physical Chemistry I. (3 Credits)**

A. Corequisite: CHE 774L. A study of thermodynamic properties in physical and chemical systems; electrochemical processes; rates and mechanisms of chemical reactions.

**CHE 774L. Physical Chemistry Lab I. (1 Credit)**

A. Prerequisites or Corequisites: CHE 774 (C or better). Laboratory component of CHE 774. Experimental work to illustrate principles of physical chemistry that include thermochemistry, thermodynamics, equilibrium, and reaction kinetics. 3 Lab.

**CHE 775. Physical Chemistry II. (3 Credits)**

A. Corequisite: CHE 775L. An introduction to quantum mechanics as applied to model, atomic, and molecular systems; applications of atomic and molecular spectroscopy; introduction to computational chemistry.

**CHE 775L. Physical Chemistry Lab II. (1 Credit)**

A. Prerequisites or Corequisites: CHE 775 (C or better). Laboratory component of CHE 775. Experimental work to illustrate principles of physical chemistry including UV-visible, infrared, and fluorescence spectroscopic techniques, fundamentals of laser operation, statistical mechanics, and computational chemistry.

**CHE 776. Advanced Physical Chemistry. (3 Credits)**

A. Prerequisite: CHE 575 (MAT 353 Recommended) or departmental approval. Intermediate and advanced topics in thermodynamics, kinetics, structure and bonding. Credit will not be awarded to students who have credit for CHE 772.

**CHE 801. Special Topics in CHE Ed. (3-6 Credits)**

(3) A. Prerequisite: Departmental approval. Areas of secondary school chemical content aligned with current state and national standards. May be retaken for a maximum of 6 credit hours provided topics are different. Lec/Lab.

**CHE 802. Topics in Analytical Chemistry. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics chosen from advanced areas of interest and vary according to needs. May be retaken for credit when new topics offered.

**CHE 810. Professional Training. (2 Credits)**

I. Prerequisite: departmental approval. Course demonstrates professional tools and establishes skills including chemical literature searching, independent project planning, methods for disseminating chemical data, chemical safety, as well as professional ethical conduct.

**CHE 811. Chemistry Practicum. (1-3 Credits)**

(1-2) Methodologies of chemistry teaching achieved through guided mentoring. Formal project assigned by faculty mentor is required for each student. Examples include developing novel assignments or lab experiences, designing new education demonstrations, or investigating lecturing/tutoring techniques. May be retaken for a maximum of two hours. 3-6 Lab.

**CHE 822. Advanced Analytical Chemistry. (3 Credits)**

A. Modern practices in chemical analysis. Sampling, sample preparation, spectroscopic and chromatographic methods.

**CHE 830. Applied Biochemistry. (3 Credits)**

A. Structure, analysis and organization of proteins; drug development; organic mechanisms of enzyme action; and the chemistry of the immune system.

**CHE 839. Co-op or Appl. Lrn: Chemistry. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and professional supervisors in an accepted chemistry or chemistry-related internship. Half (.5) to three hours per semester or summer. May be retaken up to a maximum of three hours. 80 hours work for each credit.

**CHE 839A. Co-op or Appl Lrn: Chemistry. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in cooperative experience. Half (.5) to three hours per semester or summer. May be retaken to a maximum of six hours. A minimum of 80 hours work for each credit.

**CHE 839B. Co-op or Appl Lrn: Chemistry. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in cooperative experience. Half (.5) to three hours per semester or summer. May be retaken at discretion of department or college up to a maximum of three hours. A minimum of 80 hours work for each credit.

**CHE 839C. Co-op or Appl Lrn: Chemistry. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in cooperative experience. Half (.5) to three hours per semester or summer. May be retaken at discretion of department or college up to a maximum of three hours. A minimum of 80 hours work for each credit.

**CHE 845. Chem Lab & Demonstr Techniques. (1-4 Credits)**

A. Prerequisite: six semesters of undergraduate work in chemistry or departmental approval. Techniques of constructing and demonstrating apparatus to illustrate principles of chemistry. Primarily for high school and community college science teachers. 3-12 Lab.

**CHE 850. Advanced Inorganic Chemistry. (3 Credits)**

A. Prerequisite: Molecular symmetry in inorganic chemistry, mechanisms of inorganic reactions, and catalysis by coordination and organometallic complexes.

**CHE 860. Advanced Organic Chemistry. (3 Credits)**

A. Prerequisite: Structure and reactivity of organic molecules and an in-depth study of interactions involved in molecular, macromolecular, and supramolecular systems and multiple step synthesis for polyfunctional molecules.

**CHE 880. Graduate Seminar. (1 Credit)**

A. Presentation of significant developments in chemistry to members of the chemistry faculty and department majors. May be retaken to a maximum of three hours. Cannot be taken concurrently with CHE 810. 1 Lec.

**CHE 890. Grad Lit & Project Planning. (1 Credit)**

A. Extensive survey of literature related to a specific research program and planning of that program through consultation with a selected research advisor.

**CHE 895. Chemistry Independent Research. (1-3 Credits)**

A. Objectives and techniques of chemical research. Problems in all fields of chemistry. May be retaken to a maximum of three hours. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**CHE 899. Thesis. (1-6 Credits)**

A. Laboratory research in one of the major areas of chemistry for application to a thesis. May be retaken to a maximum of six hours.

**CHE 899C. Cont' of Thesis Research. (1-9 Credits)**

(1-9) A. Prerequisite: departmental approval. The continuation of research in one of the major areas of chemistry. May be retaken as necessary to complete research. A student must have registered (or be currently registered) for six hours of CHE 899 before registering for CHE 899C. May not be used to satisfy degree program requirements. Credit will not be awarded for both CHE 895C and CHE 899C.

## CHN Chinese (CHN)

**CHN 101. Conversational Chinese I. (3 Credits)**

I, II. An Introduction to the grammar and structure of Chinese taught in a cultural context. Practice in pronunciation, reading, and writing systems with an emphasis on conversation. Gen. Ed. E-6.

**CHN 102. Conversational Chinese II. (3 Credits)**

I, II. Recommended: CHN 101 or equivalent proficiency with departmental approval. Continuation of CHN 10. Emphasis on conversation. Students entering CHN 102 by referral or placement will receive three hours credit for CHN 101 with an "A". Gen Ed. E-6.

## CHS College of Health Sciences (CHS)

**CHS 105. Survey of Medical Terminology. (1 Credit)**

I, II, A. Independent study, modular design paced by class meetings includes word roots, prefixes, suffixes, and general medical terms. Credit will not be awarded to students who have previously taken CHS 200.

**CHS 207. Survey of Diseases. (3 Credits)**

I. A. Prerequisites: BIO 171, 301. Prerequisite or Corequisite: CHS 105 or departmental approval. An introduction to disease process and management. Includes a survey of disease of the major body systems.

**CHS 210. Special Problems in Health. (1-4 Credits)**

A. Prerequisite: departmental chair approval. For independent work, special workshops, or a special topic. May be retaken to a maximum of six hours.

**CHS 342. Understanding AIDS. (1 Credit)**

I, II. A seminar intended to inform students about risk factors and implications associated with acquiring AIDS (Acquired Immune Deficiency Syndrome).

**CHS 344. Seminar in Assertiveness. (1 Credit)**

I, II. Focus is on four basic components; differences between assertion, aggression, and non-assertion; identification of personal rights and rights of others; reducing cognitive and affective obstacles to acting assertively; and developing assertive skills through active practice methods.

**CHS 349. Applied Learning in Health Sciences. (0.5-8 Credits)**

A. Work, under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. Minimum 80 hours work required for each academic credit.

**CHS 410. Special Problems in Health Professions. (1-4 Credits)**

A. Prerequisite: departmental chair approval. For independent work, special workshops, or a special topic. May be retaken to a maximum of six hours.

**CHS 420. Special Topics for Health Professions. (1-2 Credits)**

A. Prerequisite: senior standing and/or departmental approval. Topics of current interest to students enrolled in health professions. May be retaken to a maximum of six hours.

**CHS 570. Health Care of the Aged. (3 Credits)**

A. Theories of gerontology; common health problems of the aged; focus on quality health care.

**CHS 770. Health Care of the Aged. (3 Credits)**

Theories of gerontology; common health problems of the aged; focus on quality health care.

## CIS Computer Inform Systems (CIS)

**CIS 212. Introduction to Computer Information Systems. (3 Credits)**

I, II. Introduction to computer system concepts and productivity applications used in the workplace. Topics include the impact of digital technology in personal lives and professional careers, cybersecurity, development of spreadsheets, databases, business letters, and project management.

**CIS 215. Introduction to Business Programming. (3 Credits)**

I, II. Prerequisite: CIS 212 or CIS 240 or INF 104 with a grade of C<sup>+</sup> or better. Introductory computer programming course using an object-oriented programming language to solve business problems. This course will introduce: algorithm concepts and development; object-oriented programming methodologies; language syntax; graphical interface design and event based programming.

**CIS 230. Business Applications of Microcomputers. (3 Credits)**

A. Prerequisite: CIS 212 or CIS 240 or INF 104 or equivalent with a grade of C<sup>+</sup> or better. Advanced word processing, spreadsheets, database management, and presentation software. Credit will not be awarded for both CIS 230 and CSC 314.

**CIS 240. Introduction to Web Information Systems. (3 Credits)**

I, II. Introduction to design and development of Web-based systems. Includes Internet and Web technology; Web development using design procedures, HTML, CSS, and XML; client-side scripting languages, and hands-on experience in webpage authoring. Gen. Ed. VII (QS).

**CIS 250. Business Programming II. (3 Credits)**

I, II. Prerequisite: CIS 215 with a grade of C<sup>+</sup> or better. Intermediate computer programming course introducing: data structures; file input-output using sequential and random techniques; database access; business report generation; advanced graphical interface design and event based programming.

**CIS 300. Management Information Systems. (3 Credits)**

I, II. Prerequisites: CIS 212, INF 104 or TEC161 with a grade of "C" or better in each course; and an overall minimum of 2.0 GPA. Role of information systems in supporting managers, decision making and organizational goals; planning and managing e-business systems; global competition; social and ethical issues.

**CIS 320. Forensic Computing: Investigations. (3 Credits)**

A. Prerequisite: CIS 212 or CIS 240 or INF 104 or TEC 161 with a grade of "C" or better and junior standing. Provide students with an understanding of digital forensics as used in corporate investigations and criminal/civil litigation. Students learn basic tools and techniques to properly initiate a computer forensics investigation, then acquire and analyze the evidence.

**CIS 325. Forensic Computing: Acquisitions. (3 Credits)**

A. Prerequisite: CIS 212 or CIS 240 or INF 104 or TEC 161 with a grade of "C" or better and junior standing. Students will experience and understand the portion of the digital investigation beginning with digital evidence acquisition, then analysis of the evidence and finally reporting results - implementing various forensic hardware and software including write-blockers and EnCase.

**CIS 335. Data Base Management. (3 Credits)**

I, II. Prerequisite: Junior standing and CIS 212 or INF 104 or TEC 161 or CSC 174 or CSC 190 with a grade of "C" or better. Fundamental concepts of database Processing; conceptual; logical and physical design of databases; the use of SQL for data retrieval and relational database implementation; and data management for the enterprise. (Formerly CIS 435).

**CIS 340. Electronic Business Technologies and Tools. (3 Credits)**

II. Prerequisite: Junior standing and CIS 240 with a grade of "C" or better. The course provides an introduction to e-business infrastructure, tools, and the development of e-business applications with these tools. Topics include Web applications; HTML, XML; client-side and server-side and scripting languages.

**CIS 349. Applied Learning in Computer Information Systems. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work for each credit hour. Three hours may be used as a major elective. May be repeated for a total of 16 credit hours.

**CIS 355. Advanced Business Programming. (3 Credits)**

A. Prerequisite: CIS 250 with a grade of C- or better. An object-oriented computer programming course to solve business problems. This course will introduce: object oriented design; inheritance and composition; advanced interface and component reuse; integration techniques; server-side controls.

**CIS 360. Computer Information Systems Internship. (2-4 Credits)**

A. Prerequisites: GPA of 2.25 and advisor/departmental approval. Practical experience in computer information systems.

**CIS 370. Seminar in Computer Information Systems. (1-3 Credits)**

A. Prerequisite: instructor approval. Selected topics of special and contemporary interest to business students. May be retaken under different subtitles to a maximum of six hours.

**CIS 375. Networks and Telecommunication. (3 Credits)**

A. Prerequisite: Junior Standing and CIS 240 or NET 303 with a grade of "C" or better. The study of networking and telecommunications fundamentals including LANs, WANs, and the Internet. Data communication and telecommunication concepts, models, standards, and protocols are studied. Installation, configuration, and management of infrastructure technologies are practiced.

**CIS 380. Information Systems Analysis and Design. (3 Credits)**

A. Prerequisite: Junior standing and (CIS 215 or CIS 300 with a grade of "C" or better in each course). Systems development life cycle with the emphasis analysis and design. Topics include requirements determination, logical design, physical design, and implementation planning; feasibility analysis; RAD, prototyping, and object-oriented modeling techniques; software package evaluation, acquisition, and integration.

**CIS 400. Electronic Bus Plan & Strategy. (3 Credits)**

I, II. Prerequisite: Junior standing and CIS 300 with a grade of "C". Course covers the theory and practice of electronic business. Emphasizes e-business models and technology, assessing company performance and value; design, promotion, global and social issues. global and social issues.

**CIS 410. Project Management and Practice. (3 Credits)**

I. Prerequisite: Junior standing and CIS 300 or CIS 240 or NET 303 with a grade of "C" or better in each course. This course presents the theory and practice of modern project management. The technical and behavioral aspects of project management and change management are applied within the context of an information systems project.

**CIS 420. Forensic Computing: Network Analysis. (3 Credits)**

I, II. Prerequisites: CIS 212 or NET 303 with a grade of "C" or higher or departmental approval. This course provides students with an understanding of computer forensics, in the context of managing computer networking and wireless networks, as well as in the context of corporate investigations and business litigation. Students learn tools and techniques to investigate network logs, network traffic, and web sites to conduct a forensic investigation.

**CIS 430. Business Data Mining. (3 Credits)**

(3) A. Prerequisites: (CIS 212 or 240 or INF 104 or TEC 161) and (QMB 200 or ECO 220 or STA 215 or STA 270), all with a grade of C or above. Introduces the basic concepts and practical business applications of data mining. Topics include: data types, data patterns, data preprocessing, data cleaning, outlier analysis, features reduction, feature discretization, data integration, data mining process, model estimation, Bayesian inference, regression analysis, classification, and prediction.

**CIS 436. Advanced Database Management. (3 Credits)**

A. Prerequisites: CIS 335 and CIS 215 or CIS 340 with a grade of "C" or better in each course. An in-depth study of modern data base management to include advanced and current database topics. Coverage includes advanced data modeling and relational database design and implementation to include current technologies and techniques; database programming; database applications development for electronic business.

**CIS 475. Advanced Telecommunications. (3 Credits)**

A. Prerequisite: CIS 375 or permission of instructor. More in-depth coverage of telecommunications and networking to include installation and configuration, managing resources connectivity, running applications, monitoring and optimization, trouble shooting, and resources.

**CIS 480. Information Systems Implem. (3 Credits)**

I, II. Prerequisite: CIS 215, CIS 340, CIS 380, and CIS 335 with a grade of "C" or better in each class. An in-depth study of systems development life cycle with an emphasis on implementation of an IS project. Students develop program specifications, test plans, code and test a mixed-language software application, and provide system documentation.

**CIS 490. Special Problems in Computer Information Systems. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. Independent study in information systems. May be retaken under different sub-topics to a maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**CIS 860. Contemp Topics in Info Sys. (3 Credits)**

A. Prerequisite: CIS 850. Topics include some of the following: office automation, telecommunications, decision support systems, knowledge-based systems, executive information systems and executive support systems. May be retaken to a maximum of six hours if topics are different.

**CIS 890. Independent Study in CIS. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. May be retaken under different subtopics to a cumulative maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## CMS Communications Studies (CMS)

**CMS 100. Introduction to Human Communication. (3 Credits)**

I, II. Learn to effectively interact in a variety of social, professional and virtual environments by building self-awareness and social skills. Focus on creating effective other-oriented verbal and nonverbal messages by developing competencies in active listening, responding appropriately, managing conflict, communicating empathically, and creating professional presentations. Gen.Ed. E-1C [OC].

**CMS 100Z. Intro to Human Communication. (3 Credits)**

I, II. An introduction to the study of human communication. Overview of major topics in contemporary theories of intrapersonal, interpersonal, small group, and public communication. Gen. Ed. Element 1C.

**CMS 200. Interpersonal Communication. (3 Credits)**

I, II. A theoretical and practical study of interpersonal communication. Students will explore the influence of technology on relationships and will learn strategies to enhance interpersonal relationships through self-disclosure, verbal and nonverbal messages, and effective conflict management. Gen. Ed. E-5B.

**CMS 205W. Advocacy and Opposition. (3 Credits)**

I, II. Prerequisites: ENG 102 or 102R, or ENG 105(B), or HON 102. The study of the techniques and principles of formal argumentative discourse including developing, presenting, defending, opposing, and analyzing positions on controversial questions through research, writing and oral communication. Emphasis on the use of online mediums for promoting and opposing ideas. Credit will not be awarded for both CMS 205W and CMS 205.

**CMS 210. Public Speaking. (3 Credits)**

I, II. Principles of and practice in the art of public speaking. Study of the invention, organization, style, delivery, and audience adaptation of informative, persuasive, and commemorative speeches. Gen. Ed. Element 1C. Credit will not be awarded to students who have credit for CMS 215.

**CMS 210Z. Public Speaking. (3 Credits)**

I, II. Principles of and practice in the art of public speaking. Study of the invention, organization, style, delivery, and audience adaptation of informative, persuasive, and commemorative speeches. Gen. Ed. Element 1C.

**CMS 215. Business and Professional Presentations. (3 Credits)**

(3) A. Students develop and practice multiple types of presentations vital for the professional arena. Learn the skills associated with effective verbal and nonverbal delivery, how to create appealing visual aids, how to motivate and inspire others through persuasive speaking, and how to deliver technical information clearly and understandably. Credit will not be awarded to students who have credit for CMS 210. Gen. Ed. E-1C.

**CMS 275. Applied Organizational Communication Skills. (3 Credits)**

(3) A. Study of applied communication skills for professionals in organizational contexts. Develop communication skills in conducting interviews, engaging in performance evaluations, creating resumes, managing a professional online presence and in using appropriate business etiquette. Credit will not be awarded for both CMS 250 and CMS 275.

**CMS 302. Social Media Messaging for Org. (3 Credits)**

Prerequisites: ENG 102, ENG 102R, ENG 105(B), or HON 102. An introduction to the development, execution, and evaluation of persuasive and informative messaging used by organizations to share information using various social media platforms. Real world organizations are assessed.

**CMS 305. Research Design in Communication Studies. (3 Credits)**

I, II. Prerequisites: CMS 205W. Introduction to the philosophy, methods, practice and everyday application of communication research. Topics include reading, summarizing, and evaluating academic literature, and using information technology in the collection, organization, interpretation, and presentation of data in a scholarly or workplace context.

**CMS 310. Team Building and Small Group Communication. (3 Credits)**

I, II. Prerequisites: CMS 200. Study the role of communication in the development of group norms, roles, leadership styles, problem-solving techniques and decision-making techniques in team building and small group interactions in both face to face and virtual team environments.

**CMS 315. Communication Studies Practicum. (1-3 Credits)**

I, II. Prerequisite: Instructor approval. Practical field experiences that allow a student to observe and document how working professionals perform their job responsibilities. Students will also participate to a limited extent in performing tasks under supervision by program professors and on-site staff. May be retaken for a maximum of six hours.

**CMS 320. Persuasion. (3 Credits)**

A. Prerequisites: ENG 101 or 101R and 102. Study of contemporary research and theories of persuasion and social influence. Practice in the design, analysis, and implementation of persuasive messages.

**CMS 325. Communication in Conflict Management. (3 Credits)**

I, II. Prerequisites: Junior or senior standing or departmental approval. Study of the human communication and technology components contributing to the introduction, continuation, and resolution of conflict in personal and professional relationships. Learn to identify root causes of conflict and practice communication strategies for productive conflict management including active listening, perception-checking, the healthy expression of emotions, power balancing, and problem-solving.

**CMS 335. Advanced Public Speaking. (3 Credits)**

(3) I, II. Prerequisite: CMS 210 or departmental approval. An advanced study of the invention, organization, style, delivery, and audience adaptation of various types of speeches.

**CMS 349. Applied Learning in Communication Studies. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349A. Cooperative Study: Communication Studies. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349B. Cooperative Study: Communication Studies. (1-8 Credits)**

A. work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349C. Cooperative Study: Communication Studies. (1-8 Credits)**

A. Work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349D. Cooperative Study: Communication Studies. (1-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**CMS 349E. Cooperative Study: Communication Studies. (1-8 Credits)****CMS 349F. Cooperative Study: Communication Studies. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours; eight, associate, sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**CMS 350. Organizational Communication. (3 Credits)**

I. Prerequisite: ENG 101 or 101R. An introduction to the principles, theories, and practice of communication within organizations. Emphasis will be placed on different perspectives of organizational communication, in addition to emergent issues such as newcomer assimilation, organizational culture, networks, decision-making, emotion diversity, and technology, and values.

**CMS 353. Health Communication. (3 Credits)**

A. Prerequisites: CMS 100 or CMS 210. A survey of recent development in the field of health communication. Emphasis is on the role of interpersonal communication and family narrative in the health care setting, patient provider interactions and multicultural health awareness.

**CMS 375. Intercultural Communication. (3 Credits)**

A. Prerequisites: CMS 100 or CMS 200 or CMS 210 or CMS 215. A practical and theoretical study of the basic elements of interpersonal communication and culture as the two relate to one another. Enhance cross-cultural communication competencies and strengthen understanding of diverse cultural perspectives. Gen. Ed. E-6.

**CMS 380. Communication and Recruitment. (3 Credits)**

A. Prerequisites: Departmental approval. This course is designed to provide students with both theory and methods in recruitment, using and improving their interpersonal communication and public speaking skills. The class will utilize extensive role-playing activities to develop these skills.

**CMS 400. Communication and Gender. (3 Credits)**

A. Prerequisites: CMS 200, 205 or 205W, and 210. Focuses on relationships between communication and gender, race, and social class. Examines ways in which gender roles are created and recreated in society and in our personal and professional relationships.

**CMS 410. Human Communication Theory. (3 Credits)**

A. Prerequisite: CMS 200. Prerequisite or Corequisite: CMS 305. Examine key communication theories that describe, explain and/or predict human communication behaviors. Emphasis placed on the application of theories to everyday life.

**CMS 420. Negotiation. (3 Credits)**

A. This course combines communication theory and practice in resolving conflicts using the negotiation process. Extensive role-playing activities will be utilized to develop these skills.

**CMS 435. Family Communication. (3 Credits)**

A. Prerequisite: CMS 200. Introduction to the literature and research on communication in the family. Emphasis on the role of communication in creating and maintaining healthy marriages and families. Topics include exploring communication in the family life cycle, managing conflict and stress in the family, and using communication to manage the work/family balance in everyday life.

**CMS 445. Advanced Interpersonal Communication. (3 Credits)**

A. Prerequisite: CMS 200 and 205W. Analysis of theory and research in professional and personal communication. Topics include relationship messages, stages of interpersonal relationships, intimate dialogue, the dialogue of distance, maintaining relationships through dialogue, and developing effective communication in relationships.

**CMS 450. Mediation. (3 Credits)**

A. Prerequisites: CMS 325 or departmental approval. The study of mediation as an alternative dispute resolution technique. Involves the analysis and practice of communication skills applicable to the mediation process. Extensive mediation role-plays are an integral part of the course.

**CMS 485S. Communication Training and Development. (3 Credits)**

I, II. Formerly CMS 485. Prerequisite: CMS 200, 205W, 250 and 300. An introduction to the field of communication training and development for corporate, industrial, institutional, medical or educational settings. Students will practice training techniques in on-site situations. Credit will not be awarded to students who have credit for CMS 406 or 485.

**CMS 490. Special Topics in Communication. (1-3 Credits)**

A. Presentation of course material of a timely, specialized, or topical nature. Specific course orientation will appear beside title. May be retaken to a maximum of nine hours if subject matter is different each time. Credit will not be awarded for both CMS 495 and CMS 490 Special Topics in Leadership.

**CMS 495. Communication, Leadership, and Change. (3 Credits)**

I, II. Prerequisite: Prerequisites: Senior standing and CMS 305. A capstone course that helps students reflect on and apply their learned experiences in communication with an emphasis on leadership. Students integrate learned theory and experiences with real world situations. Completion of a capstone project is required.

**CMS 499. Independent Study in Communication Studies. (1-6 Credits)**

I, II. Individual research and reading on a specified speech communication subject. Regular consultation and final paper or performance required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

**CMS 805. Indep Studies in Comm Studies. (1-3 Credits)**

A. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours. Individual research and reading on a specific communication studies subject. Regular consultation and final paper required.

## COM Communications (COM)

**COM 200. Mass Media and Society. (3 Credits)**

I, II. Introduction to mass media issues. Analyzes mass media impact on social, political and economic sectors of American and world societies. Considers issues and trends, including ethics, legal controls, violence and censorship. Gen. Ed. Block VII (SBS). Credit will not be awarded to students who have credit for COM 200W.

**COM 200W. Mass Media & Society. (3 Credits)**

I, II. Prerequisites: ENG 122, or ENG 105 (B), or HON 102. Introduction to Mass Media Issues. Analyzes mass media impact on social, political and economic sectors of American & World Societies. Considers issues/trends, including ethics, legal controls, violence & censorship. Gen. Ed. Block VII (SBS). Credit will not be awarded to students who have credit for COM 200.

**COM 201. Writing and Reporting News. (3 Credits)**

I, II. Prerequisites: ENG (101 and 102) or 105 or HON 102. Study of the elements of news for print and electronic media; style, structure, sources, interviewing, story types, libel and ethics. Practice in gathering, writing and evaluating news.

**COM 290. Topics in Communication. (1-3 Credits)**

A. Prerequisite: department approval. Special topics beyond the scope of regularly offered courses. May be retaken to a maximum of nine hours provided the subject matter differs each time. Specific topics included in the schedule.

**COM 301. Writing and Reporting News II. (3 Credits)**

I, II. Prerequisite: COM 201. Advanced study of news for print and broadcast media. Includes source development, deadline reporting, visual reporting, electronic news sources, in-depth reporting. Introduction to court and government reporting.

**COM 320. Desktop Video. (1 Credit)**

I, II. Study of skills and techniques allowing effective communication in the electronic media using desktop video tools. Examination of desktop video from an aesthetic perspective including television, film, art, multimedia, web video, digital still video.

**COM 325. Advertising Copy & Production. (3 Credits)**

Prerequisites: ENG 102 or ENG 105 with a B or HON 102. Introduction to copywriting and production for electronic, print and other advertising media. Emphasis on advertising strategy, motivation, appeals, visualization and layout. Applies research and communication theory to creation of advertising. Credit will not be awarded for both PUB 325 and PUB 325S, COM 325 or 325S.

**COM 330. Sportswriting and Reporting. (3 Credits)**

I, II. Writing and producing of game, feature and interview stories for print and broadcast. Will include play by play, sports commentary and analysis.

**COM 345. Literature and Film. (3 Credits)**

A. Cross listed as ENG 345. Prerequisites: ENG 101 and 102 (or 105 with a grade of B) or HON 102. Examination of the relationships between film and literature through a comparative study of the stylistic and technical elements of the two media. Credit will not be awarded for both COM 345 and ENG 345.

**COM 349. Applied Learning in Multi-Media Studies. (0.5-8 Credits)**

A. Prerequisites: junior standing, 2.0 average in all courses within the department, and departmental approval. Work under faculty and field supervisor in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen baccalaureate. A minimum of 80 hours work required for each academic credit. May not satisfy major or minor requirements within the department.

**COM 349A. Cooperative Study: Multi-Media Studies. (0.5-8 Credits)**

A. Prerequisites: junior standing, 2.0 average in all courses within the department, and departmental approval. Work under faculty and field supervisor in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen baccalaureate. A minimum of 80 hours work required for each academic credit. May not satisfy major or minor requirements within the department.

**COM 349B. Cooperative Study: Multi-Media Studies. (0.5-8 Credits)**

Work under faculty and field supervisor in placements related to academic studies. May not satisfy major or minor requirements within the department.

**COM 390. Fundraising. (3 Credits)**

I, II. Prerequisite: PUB 375 or department approval. An overview of fundraising, including planning, organization, management, marketing, and the common sense needed to raise money from private sources. Credit will not be awarded for both PUB 390 and COM 390.

**COM 400. Studies in Communications:\_\_\_\_. (1-9 Credits)**

A. Prerequisite: will vary with course offering. Study of specific areas of communications through workshops, short courses, institutes, or through the presentation of a specific course which examines timely, topical, or specialized concerns in the field. Specific topic included in schedule. May be retaken to a maximum of nine hours.

**COM 405. Media Law. (3 Credits)**

A. Prerequisite: COM 200 or 200W or departmental approval. Examination of legal philosophies relating to the media, including press freedom, copyright, libel, slander, privacy, free press/fair trial, and regulation. Emphasizes the legal rights and responsibilities of the media.

**COM 415. Media Ethics. (3 Credits)**

A. Prerequisite: COM 200 or 200W or departmental approval. Examination of ethical standards and practices of the mass media. Includes development of ethical decision-making skills.

**COM 425. Media Planning & Buying. (3 Credits)**

I, II. An introduction to the process of media planning and buying. Emphasis on basic measurements and calculations, reach and frequency, strategy, evaluation, and budgeting.

**COM 430. Legislative Reporting. (3 Credits)**

A. Prerequisite: COM 201 or department approval. Reporting on the state legislature for print and broadcast media. Counts as JOU/BEM elective.

**COM 445. Broadcast & Cable Promotion. (3 Credits)**

I, II. Study of broadcast and/or cable promotion in the areas of writing, production, marketing, and public relations. Includes exercises in promotions.

**COM 490. Media Campaigns. (3 Credits)**

A. Prerequisites: COM 325 or 425. Design and execution of a complete advertising/media campaign based on an actual case study. Includes primary research, media planning, creative design/execution, and evaluation. Students produce professional quality advertising materials for national competition. Credit will not be awarded to students who have credit for MKT 426.

**COM 495. Spec Prob Public Relations. (1-3 Credits)**

A. Topic selection and supervisor approval required before enrollment. May be retaken to a maximum of three hours.

**COM 496. Special Problems Film. (1-3 Credits)**

A. Topic selection and supervisor approval required before enrollment. May be retaken to a maximum of three hours.

**COM 497. Spec Problems Journalism. (1-3 Credits)**

A. Topic selection and supervisor approval required before enrollment. May be retaken to a maximum of three hours.

**COM 499. Special Problems Television. (1-4 Credits)**

A. Topic selection and supervisor approval required before enrollment. May be retaken to a maximum of three hours.

**COM 550. Readings in Mass Communication. (3 Credits)**

A. Prerequisites: instructor approval and senior standing. Critical reading of selected books and magazines relating directly or indirectly to mass communications. Features reviews and seminar discussions of readings chosen to reflect individual student's interests.

**COM 599. Independent Study in Communication: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisites: Completion of at least 90 hours; students must have the Independent Study Proposal Form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of three hours, providing additional study projects differ.

**COM 750. Readings in Mass Communication. (3 Credits)**

A. Prerequisites: departmental approval and ninety or more hours. Critical reading of selected books and magazines relating directly or indirectly to mass communications. Features reviews and seminar discussions of readings chosen to reflect student's individual interests.

**COM 799. Independent Study in COM. (1-3 Credits)**

(1-3) A. Prerequisites: Graduate student status; students must have the Independent Study Proposal Form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of three hours, providing additional study project differ.

## CON Construction Management (CON)

**CON 121. Introduction to Construction. (3 Credits)**

I, II. A survey of the construction industry. Nature, scope, and general characteristics of the industry with an emphasis on careers, safety, and typical contracting methods.

**CON 201. Materials and Methods of Construction. (3 Credits)**

I, II. Composition, manufacture and grades of construction materials and building products with emphasis on wood, metal, glass, roofing, finishing, and plastic materials. Methods, including safety, involved in the placement and installation of these materials.

**CON 202. Materials and Methods of Construction II. (3 Credits)**

II. Composition, manufacture, and grades of construction materials and building products with an emphasis on concrete and masonry. Methods, including safety, involved in the placement and installation of these materials. 2 Lec/2 Lab.

**CON 221. Plane Surveying. (3 Credits)**

I, II. Prerequisite: MAT 120 with a minimum grade of "C". Principles of surveying, including the measurement of distances, elevations, and angles. Calculations for the various operations, including traverse computations. Introduction to the use of surveying instruments and note keeping. 2 Lec/2 Lab.

**CON 250. Structural Systems & Material. (3 Credits)**

I. Prerequisite: DES 122. Emphasis on building systems and materials for residential structures. An understanding of the properties of structural materials and their appropriate applications. Laws, codes, and standards will be addressed along with instruction in blueprint reading.

**CON 294. Construction Graphics. (3 Credits)**

A. Basic principles of residential and small commercial planning; styles of architecture; a comparative study of structural systems and the preparation of working drawings. 2 Lec/2 Lab.

**CON 303. Statics and Strength of Materials. (3 Credits)**

I, II. Prerequisites: MAT 120 or 234 (4) with a minimum grade of "C", and PHY 131 or 201. Study of loads, forces and their effects on rigid bodies and structures at rest. Computation of equilibrium reactions, internal forces, shear, moments, couples, friction, stress, strain, and deformation. Finding centroids and moments of inertia.

**CON 307. Soils and Foundations. (3 Credits)**

I. Prerequisite: CON 303. A study of soil mechanics as it relates to foundation construction. Topics include soil classification, engineering properties, compaction testing, types of foundation systems, and methods of foundation construction.

**CON 320. Construction Surveying. (3 Credits)**

I, II. Prerequisite: CON 221. The application of surveying skills as they relate to horizontal and vertical control on construction projects. Activities include building layout, centerline staking, earthwork computations, and slope staking. The use of electronic instruments is emphasized. 2 Lec/2 Lab.

**CON 321. Boundary Surveying. (3 Credits)**

I. Prerequisite: CON 221. This course introduces students to the principles of boundary surveying and provides them with the basic knowledge and skill to practice boundary surveying under the supervision of a registered professional surveyor.

**CON 322. Construction Structural Design. (3 Credits)**

I, II. Prerequisites: CON 303 and MAT 211 or MAT 234 and MAT 217. A study of the design of beams and columns using steel and wood. Principles of structural design related to the design of temporary structures used in the construction process.

**CON 323. Estimating I. (3 Credits)**

I, II. Prerequisites: CON 201, 202 and MAT 120 with a grade of "C". A study of the materials and labor required in the construction of commercial projects. Experience is gained in reading drawings, calculating material quantities, and listing work items in a standardized format. 2 Lec/2 Lab.

**CON 324. Mechanical/Electrical Systems. (3 Credits)**

II. Prerequisites: CON 201 and 21 additional hours of CON courses. A study of plumbing, heating, air-conditioning, electrical power distribution, and lighting for vertical and horizontal construction. Basic fundamentals of water supply, waste drainage, electrical circuits, and heat loss/gain calculations are studied. 2 Lec/2 Lab.

**CON 325. Construction Estimating. (4 Credits)**

(5) I, II. Prerequisite: CON 201, 202; MAT 120 with a minimum grade of "C"; and TEC 161. A study of estimating construction materials, equipment, labor, and costs, through reading drawings and calculating quantities and costs. Estimating software and cost databases are utilized to list work items in standardized format. 4 Lec/2 Lab.

**CON 326. Horizontal Construction. (3 Credits)**

(3) A. A study of construction equipment, roadwork, bridge construction and various other topics involved in horizontal construction means and methods.

**CON 349. Applied Learning in Construction Management. (0.5-8 Credits)**

A. Prerequisites: 30 hours of credit including 9 credit hours of CON courses with a 2.0 GPA and departmental approval. Transfer students must have completed at least one semester of full-time work at EKU. Work under faculty and field supervisors in placements related to construction management.

**CON 401. Spec Prob in Constr Tech. (1-3 Credits)**

A. An independent study course for exceptional upper division undergraduate students. A study proposal will be developed by the student and approved by the faculty supervisor and department chair prior to enrollment. May be retaken provided the topic of study is different.

**CON 420. Engineering Economy. (3 Credits)**

I, II. Junior Class Restriction. A systematic application of engineering economy to design, selection of construction materials, and construction methods. A study of first costs, operating and maintenance costs, service life, and replacement costs.

**CON 421. Construction Contracts. (3 Credits)**

I. Prerequisite: CON 325. Contract documents, drawings, and specifications and their impact on the construction process. A study of the types and organization of construction contracts, and the roles and responsibilities of the parties involved.

**CON 423. Estimating II. (3 Credits)**

I, II. Prerequisite: CON 323 and TEC 161. Construction projects of moderate complexity are divided by scope, then materials are quantified and costed. Cost databases are utilized for estimating labor, materials, equipment, and overhead. Emphasis is placed on the use of estimating software. 2 Lec/2 Lab.

**CON 425. Project Organization and Supervision. (3 Credits)**

II. Prerequisites: MGT 300 or MGT 301 or INT 408 or AEM 408 and CON 421. A study of principles of construction project administration, systems for efficient operation of office and field personnel, and dispute avoidance and resolution procedures. The construction process is followed from project inception to closeout.

**CON 426. Scheduling. (3 Credits)**

I, II. Prerequisites: ACC 201 or FIN 310 and CON 325. A study of the planning and control of construction activities and project costing. Topics include critical path method scheduling, metric based progress monitoring, cash flow analysis, and cost control. Standard scheduling software is used. 2 Lec/2 Lab.

**CON 428. Construction Sustainability. (3 Credits)**

(3) A. A study focused on understanding the concept of sustainability in construction, which uses the requirements and procedures for obtaining Leadership in Energy and Environmental Design (LEED) professional accreditation.

**CON 480. Construction Management Graduate Preparation. (1-6 Credits)**

Prerequisite: Admission to MS program in Applied Engineering and Technology Management, Construction Management concentration, and departmental approval. A guided study of construction management modules meant for graduate students who have an undergraduate degree in an unrelated field but who have a minimum of 3 years of verifiable construction experience.

**CON 499. Construction Mgt. Capstone. (4 Credits)**

(4) II. Co-requisites and/or prerequisites: CON 425, CON 426. A project-based capstone course for senior-level construction management students under the direction of the construction management faculty. This course integrates applied components of undergraduate construction courses and incorporates online environmental and safety certifications. 3 Lec/2 Lab.

**CON 824. Engin and Construct Forensics. (3 Credits)**

A. Prerequisite: Departmental approval. Design, material, and ethical failures and their impacts on engineering and construction practice. Case studies will present facts including design and construction, the failure, subsequent investigation and analysis and additional issues such as technical concerns and ethical considerations.

**CON 825. Airport Plan & Construction. (3 Credits)**

A. Prerequisite: Departmental Approval. Basic airport planning and design topics including system and master planning, capacity, airside and passenger side planning, drainage and pavement design. Regulations in water and air pollution, carbon footprint, renewable energy, security, and sustainable development.

**CON 826. Practical Construction Law. (3 Credits)**

A. Construction law from the perspectives of the owner, project designers, and contractor. Analysis of "real world" practical cases. Introduction to topics including contract clauses, licensure, contractor liability, dispute resolution, lien laws, and the Miller Act.

**CON 827. New Construction Entity. (3 Credits)**

A. A study focused on establishing a new construction entity, which includes: selecting company type, establishing professional relationships, fulfilling federal/state mandates, developing a marketing plan and establishing a risk mitigation strategy.

**CON 828. LEED Principles & Procedures. (3 Credits)**

A. A study focused on understanding of the requirements and procedures for obtaining Leadership in Energy and Environmental Design (LEED) professional accreditation.

**CON 829. Construction Portfolio Mgmt.. (3 Credits)**

A. Prerequisites: Departmental Approval. A study for seasoned project managers responsible for complex projects and/or portfolios of construction projects. From charrette to managing project execution, enterprise-wide project management principles will be examined.

## COR Correct & Juv Jus Studies (COR)

**COR 201. Introduction to Corrections. (3 Credits)**

A. Introduction to historical, philosophical, and operational frameworks of US corrections. Debates the goals of punishment explores institutional and community-based sentencing options.

**COR 302. Living and Working in Prison. (3 Credits)**

A. Cross-listed as CRJ 302. Examines inmate subcultures and violence in prisons. Analyzes prison environment for correctional officers. Explores life behind bars/offender difficulties in reentering society. Credit will not be awarded to students who have credit for COR 301 or CRJ 302.

**COR 303. The Offender in the Community. (3 Credits)**

A. Formerly: COR 330. Cross-listed as CRJ 303. Explores impact offenders have on community. Examines formal correctional options and alternative methods social control used to manage offenders in community. Credit will not be awarded with CRJ 303 or COR 330.

**COR 311. The Juvenile Justice System. (3 Credits)**

A. Cross-listed with CRJ 311. Examines the evolution of the juvenile justice system, police response to delinquency, and juvenile court's roles in protecting the public and serving children. Credit will not be awarded for both CRJ 311 and COR 311.

**COR 321. Delinquency Interventions. (3 Credits)**

A. Provides in-depth analysis of risk factors of delinquency. Examines effectiveness of individual, school, and family-based interventions in both community and residential settings.

**COR 322. School- Based Interventions for At-Risk Youth. (3 Credits)**

A. Formerly COR 320. Examines school-based problems and interventions commonly experienced by at-risk youth. Discusses strategies for effective collaboration between schools and other youth-serving organizations. Credit will not be awarded for both COR 322 and COR 320: School Board Interventions for at Risk Youth.

**COR 323. Legal Issues in Adult Corrections. (3 Credits)**

A. Cross-listed as CRJ 323. An overview of legal court decisions related to adult corrections. Analyzes legal issues surrounding adult correctional contexts and practices. Credit will not be awarded to students who have credit for COR 315 or CRJ 323.

**COR 330. Community Corrections. (3 Credits)**

A. Surveys history and current status of community correctional programs, including diversion, probation, parole, and other community programs for adult offenders, with emphasis on programmatic philosophies, operations, effectiveness, and other related issues.

**COR 340. Correctional and Juvenile Justice Administration. (3 Credits)**

A. Introduces students to organizational theory and managerial theory and managerial principles, and examines their application to the unique challenges of correctional and juvenile justice settings.

**COR 349. Applied Learning in Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisors, in placements related to academic studies. Total hours: six, baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 349A. Cooperative Study: Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisors, in placements related to academic studies. Total hours: six, baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 349B. Cooperative Study: Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisor in placements related to academic studies. Total hours: six baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 349C. Cooperative Study: Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisor in placements related to academic studies. Total hours: six baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 349D. Cooperative Study: Corrections and Juvenile Justice. (0.5-6 Credits)**

A. Prerequisites: 30 hours of college coursework and departmental approval. Work under faculty and field supervisor in placements related to academic studies. Total hours: six baccalaureate. A minimum of 80 hours work experience is required for each academic credit.

**COR 350. Rehab. Strategies for Offender. (3 Credits)**

A. An in-depth examination of the treatment role of the correctional worker in juvenile and adult settings. Includes an historical and theoretical review with particular emphasis on contemporary approaches to treatment. Both institutional and community-based efforts are discussed.

**COR 360. Rehabilitation Strategies for Adult and Juvenile Offenders. (3 Credits)**

A. Cross-listed as CRJ360. Debates the rehabilitative goal of corrections and juvenile justice. Examines contemporary strategies and their effectiveness in controlling/changing offender behavior. Credit will not be awarded to students who have credit for COR 350 or CRJ 360.

**COR 375. Applied Skills Practicum. (1-6 Credits)**

A. Prerequisites: Departmental approval. Designed primarily for in-service personnel and others where COR 349 is inappropriate, this course provides the student with opportunity to integrate academic knowledge with a field experience.

**COR 410. Female Offenders. (3 Credits)**

A. Formerly COR 423. Cross listed as CRJ 410. Analyzes Analyzes how policy and practice has impacted female arrests and incarceration. Explores gendered pathways to crime and the importance of gender-specific programming. Credit will not be awarded for both COR 410 and COR 423: "Women in Corrections".

**COR 412. Exploring the Death Penalty. (3 Credits)**

A. Introduction to the history and use of the death penalty in the US. Examines purpose, fairness, and efficacy of death penalty through balanced coverage of the debate. Credit not awarded to students who have credit for COR 320: Exploring the Death Penalty.

**COR 413. Addressing Mental Health and Substance Abuse Needs of Adult Offenders. (3 Credits)**

A. Cross-listed as CRJ 413. Examines etiology and effects of substance abuse/mental health problems of adult offenders. Describes intervention strategies. Credit not awarded to students who have credit for CRJ413 or COR 320: Addressing Mental Health & Substance Abuse Needs of Adult Offenders.

**COR 420. Diversity in Corrections. (3 Credits)**

A. Cross-listed as AFA 346, CRJ 345, WGS 345. Focuses on issues, status, and special needs of "non-mainstream" sub-populations within the US correctional system, both inmates and personnel.

**COR 421. Intervening with Juvenile Sex Offenders. (3 Credits)**

(3) A. Formerly COR 423. Provides comprehensive overview of field of juvenile sex offenders and the risk they pose. Focuses on etiology, evaluation, assessment, treatment, and management of juvenile sex offenders. Credit will not be awarded to students who have credit for COR 423: Intervening w/ Juvenile Sex Offenders.

**COR 422. Legal Issues in Juvenile Justice. (3 Credits)**

(3) A. Introduces the major bodies of law that inform juvenile justice practice and examines juvenile's legal rights. Credit will not be awarded to students who have credit for COR 316 or COR 423 "Advanced Legal Issues in Juvenile Justice".

**COR 423. Topical Seminar:\_\_\_\_. (1-3 Credits)**

A. Intensive study of selected topics related to corrections and juvenile justice. May be retaken to a maximum of twelve hours on different topics.

**COR 450S. Service Learning in COR. (3 Credits)**

A. Prerequisites: Departmental approval. Intensive study of selected topics on corrections and juvenile justice. Students will engage in an experiential, or service, activity related to the topic. May be retaken for a maximum of six hours on different topics.

**COR 460. Independent Study. (1-6 Credits)**

A. Prerequisites: Departmental approval. Individual study and/or research on a problem pertaining to corrections and/or juvenile justice. Student must have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment.

**COR 470. Delinquency & Crime Prevention. (3 Credits)**

A. Prerequisite: departmental approval. Policy-relevant research designed to broaden program evaluation experience through assignments in evaluation planning, research design, data interpretation/analysis, and translation of findings to policy. Activities conducted in classroom, computer laboratory, and in the field. May be retaken for 6 hours in program.

**COR 809. Prog/Policy Eval & Analysis. (3 Credits)**

A. Qualitative/quantitative concepts and procedures to manage, understand, and effectively consume program evaluation and statistically based-research. Reading, understanding, accurately interpreting evaluation-based research journals and governmentally produced research emphasized.

**COR 812. Leading w/Pol. Eth. Emot Intel. (3 Credits)**

A. Examines leadership within the correctional field, focusing on three competencies essential for effective, just leadership: political, ethical, and emotional intelligence. Understanding mindset/tactics associated with administrators that do/don't lead with these competencies.

**COR 818. Methods in Corr/Juv Justice. (3 Credits)**

A. Examines strategies/issues relevant to collection and analysis of quantitative and qualitative data in areas of community corrections, juvenile justice, adult corrections. Special attention to methods/techniques most relevant to agency administration.

**COR 820. Seminar in Juvenile Justice. (3 Credits)**

A. Examines trends/issues central to understanding contemporary juvenile corrections/crime; correctional trends; historical development; use/effectiveness of various interventions (prevention, pre/post adjudicatory responses to juvenile offenders).

**COR 823. Topical Seminar in Cor/Juv Jus. (1-3 Credits)**

A. This is a variable topic seminar meant to provide in-depth, critical analyses of contemporary issues in adult corrections or juvenile justice. The course may be retaken to a maximum of six hours on different topics.

**COR 825. Illicit Offender Networks. (3 Credits)**

A. Examines structure/functions of inmate exchange networks. Discussion on markets for illicit goods, services; interpersonal, collective, sexual violence; staff complicity in illegal activities. Explore social/institutional factors impacting inmate exchange networks.

**COR 826. Intr Response to Juv Adult Off. (3 Credits)**

A. Examination of adult and juvenile systems of punishment, traditional and non-traditional, of various nations. Explore critical issues/trends from several perspectives to develop deeper understanding of prison and alternatives in the US and world.

**COR 827. Corrections & Crime Mythology. (3 Credits)**

A. Interrelatedness of social construction of issues in corrections, prisons, crime in popular/media culture with empirical realities of these issues. Examination of social and symbolic construction through analysis of film, literature, popular culture, academic literature.

**COR 828. MH/Sub Abuse Issues in Cor Stg. (3 Credits)**

A. Explores prevalence, diagnosis, best practices for treatment of mental illness/substance abuse disorders; pressing issues facing the criminal justice system in the correctional population.

**COR 830. Understanding Corr/Juv Just In. (3 Credits)**

A. Situates issues facing correctional organizations in historical, political, economic, cultural contexts. Emphasizes applying theory and critical thinking to address problems/issues/trends facing leaders in corrections and juvenile justice.

**COR 835. Corr/Juv Just Leadership & Ad. (3 Credits)**

A. Examination of contemporary approaches to juvenile justice/corrections leadership and administration; organization, personnel management, leadership skills, policy formulation focus, study of social/political settings of corrections administration and leadership.

**COR 840. Adult Corrections. (3 Credits)**

A. This course analyzes current and emerging trends/issues in adult community and institutional corrections. The future of corrections is examined based on current and projected trends.

**COR 850. Corr & Juv Just Interventions. (3 Credits)**

A. This course provides critical analyses of research and theories guiding effective rehabilitation programs in corrections and juvenile justice. It examines how various factors contribute to criminal behavior and how assessment procedures can improve programs.

**COR 856. Law/Ethics in Dealing with Off. (3 Credits)**

A. Analyzes ethical and legal issues confronting leaders in adult and juvenile correctional agencies. Evaluates statutory law, case decisions, administrative promulgations from constitutional and socio-legal standpoints.

**COR 857. Comm Context of Adult/Juv Cor. (3 Credits)**

A. Analyzes interaction between local communities/institutional/community corrections. Explores how community shapes offenders entering the correctional system; how the correctional system impacts local communities. Emphasis on subcultural theories of crime and communities; implications of re-integrating offenders.

**COR 878. Capstone App Research Project. (3 Credits)**

A. Prerequisites: Complete core courses; final semester registration. Culminating academic experience involving research of well-defined correctional/juvenile justice leadership topic. Emphasizes grounding the project in relevant literature, appropriate topical methods of inquiry, integrating knowledge gained throughout program.

**COR 897. Independent Study. (1-6 Credits)**

A. Students engage in self-directed learning at the university or in a field setting under graduate faculty supervision. Students must have completed a minimum of 6 hours of COR coursework and have clear admission status to be eligible to register for this course. Additionally, students must have the independent study proposal form approved by faculty supervisor and the graduate director before enrolling.

**COR 898. Thesis. (1-6 Credits)**

A. Students develop a thesis under faculty direction. While various combinations of hours per semester are possible, students selecting a thesis option must complete six hours total. Students must confer with the thesis advisor before enrolling.

## COU Counselor Education (COU)

**COU 803. Prin & Prac of Mental Hlth Cou. (3 Credits)**

I. Prerequisites: COU 840. Includes programs of mental health counseling and consultation, the development and management of mental health services programs, needs assessments, intervention and evaluation.

**COU 804. Counseling Diverse Populations. (3 Credits)**

I, II. Prerequisites: COU 813, 840, 846. An examination of the application of counseling methods and concepts to non-majority groups. The lifestyle, values, customs and attitudes of non-majority population will be explored.

**COU 807. Counseling: \_\_\_\_\_ (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Workshops, special topics, or seminars. May be retaken under different subtitles.

**COU 813. Prof Orient & Ethics in Course. (3 Credits)**

I, II. Prerequisite: admission to the program. An introduction and orientation to the counseling profession. This course will explore the professional roles, organization, training, and credentialing standards of the profession. It will also survey the ethical, legal and professional issues facing counselors.

**COU 814. Admin & Cnslttn in Cnslng Srvc. (3 Credits)**

I. Prerequisites: COU 813, 840, 846. Consideration of theory, organization, consultation and personnel practices involved in organizing and administering guidance and counseling programs in the schools.

**COU 820. Group Counseling. (3 Credits)**

I, II. Prerequisites: COU 813, 840, 846. Theory and experiences to develop skill in and understanding of group dynamics and effective group behavior.

**COU 822. Lifestyle & Career Counseling. (3 Credits)**

I, II. Prerequisites: COU 813, 840, 846. Occupational information in educational and vocational planning; theories of vocational choice; sociology of occupations, and interpretation and utilization of current data pertaining to career fields.

**COU 825. Dvlpmntl COU w/ Schl Age Child. (3 Credits)**

A, II. Prerequisites: COU 813, 840, 846. Student will learn how to design and implement a systematic K-12 developmental guidance program based on collaboration, consultation, and prevention as well as develop creative and play therapy approaches to working with children and adolescents.

**COU 826. Assessment in Counseling. (3 Credits)**

I. Prerequisites: EPY 816, 839, COU 855, and departmental approval. Consideration of the major theories of assessment. Training in the administration, scoring, and interpretation of selected tests of intelligence and other counseling assessment tools.

**COU 827. Indiv Assess. of Intelligence. (3 Credits)**

I. Prerequisite: COU 826. Supervised practice in the administration, scoring, and interpretation of the Wechsler Intelligence Scale for Children, Wechsler Adult Intelligence Scale, and the Wechsler Preschool and Primary Scale of Intelligence.

**COU 840. Counseling Theory and Practice. (3 Credits)**

I, II. Prerequisite/Corequisite: COU 813. Major theories of counseling. Attention is given to personality structure and individual behavior from which these are derived.

**COU 846. Process and Basic Tech Counsel. (3 Credits)**

I, II. Prerequisites/Corequisites: COU 813, 840. Includes a consideration of different schools of thought in current counseling practice; how the counselor works; and effective procedures for counseling.

**COU 847. Crisis and Abuse Counseling. (3 Credits)**

A. Prerequisites: COU 813, 840, 846. This is an advanced counseling techniques class focusing on the process and skills in crisis and abuse counseling, as well as legal, ethical, and advocacy issues.

**COU 848. Child & Adolescent Counseling. (3 Credits)**

A. Prerequisites: COU 813, 840, 846. This is an advanced counseling techniques class focusing on specific skills and processes for children and adolescents.

**COU 849. Addiction Disorders Counseling. (3 Credits)**

I. Prerequisites: COU813, 840, and COU846. Addictive disorders and behaviors ranging from chemical dependency, compulsive gambling, sex addiction to workaholism with a focus on biopsychosocial model, 12-Step and peer therapy, assessments, and interventions for adolescent and adult populations.

**COU 850. Family Counseling. (3 Credits)**

A. Prerequisites: COU 813, 840, 846. The history, terms, ethics, principles, and major models of family counseling concepts, techniques and procedures will also be examined, with primary focus on the systems approach.

**COU 853. Cou Process/Clinical Sexuality. (3 Credits)**

A. This is an advanced skills course that will teach theoretical and skill-based clinical sexuality intervention and treatment models to work with clients. Students will explore professional issues in the field, including diversity issues related to clinical sexuality.

**COU 855. Diagnosis & Treatment Counsel. (3 Credits)**

A. Prerequisites: COU 813, 840, 846. This course addresses diagnoses and treatment planning in counseling as well as prevention of mental and emotional disorders and dysfunctional behavior. Credit will not be awarded to students who have credit for PSY 841.

**COU 856. Pract in Intellect Assessment. (3 Credits)**

A, II. Prerequisites: COU 826, 827. Advanced laboratory practice in giving tests and interpreting results. Attention given to intelligence tests, measurements of special aptitudes, inventories for self-appraisal, and measure of personality.

**COU 863. Crisis and Grief Counseling. (3 Credits)**

A. Prerequisite: COU 813, 840, 846. An advanced counseling techniques class focusing on the process and skills need in crisis and grief counseling.

**COU 865. Mindfulness Pract Couns & Clie. (3 Credits)**

A. Instruction in mindfulness-based practices in counseling for use with clients and for counselor self-care. Review of current theory and research as well as experiential components including movement, meditation, breathing exercises, and guided imagery.

**COU 870. Intro to Play Therapy. (3 Credits)**

(3). A. Prerequisites: EPY 839, COU 813, COU 840, COU 846. This course discusses understanding the person of the therapist, playroom and materials, theories, history, process, techniques, relationship building, themes, parent involvement, ethics and experiential practice of play therapy with children and adults.

**COU 871. Advanced Play Therapy. (3 Credits)**

(3) A. Prerequisite: COU 870. Includes research, advanced theory, play therapy practice and skill development with various populations across the life span.

**COU 872. Practicum in Play Therapy. (3 Credits)**

(3) A. Prerequisite: COU871. Includes personal and professional development of the Play Therapist through practical application of Play Therapy theories, techniques and skills.

**COU 875. Adventure Based Counseling. (3 Credits)**

A. Prerequisite: Admission to the Doctoral program. Recommended prerequisite: completion of COU 820 – Group Counseling. Course includes study, experience, and practice of adventure-based counseling to prepare participants to facilitate adventure-based activities.

**COU 880. Counseling Practicum:\_\_\_\_\_. (0.5-3 Credits)**

(.5-3)A. Prerequisite: Clinical coordinator approval. This course provides students the opportunity to practice skills developed in their program. Students will be supervised by an experienced counselor in a setting appropriate for their program. May be taken under different setting titles up to 12 hours.

**COU 881. Internship in Counseling:\_\_\_\_\_ (0.5-6 Credits)**

(.5-6) A. Prerequisite: COU 880. Practice in a counseling setting which allows for the transition from student to professional. May be taken for up to 15 credit hours in order to generate the required clock hours.

**COU 885. Clinical Supervision of COU. (3 Credits)**

(3) A. Prerequisite: COU 880. Provides counseling students with knowledge of fundamental issues in clinical supervision including the role and function of supervision; models and theories; diversity issues; legal and ethical considerations.

**COU 886. Advanced Clinical Supervision. (3 Credits)**

(3) A. Prerequisite: Admission to the CEP doctoral program. Advanced, integrative study of theories, models, and current issues in clinical supervision.

**COU 887. Supervision of Counseling Prac. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. Supervised practice of supervision of master's level practicum students.

**COU 891. Advanced Counseling Theories. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. An examination of the theoretical foundations of counseling theory construction. Credit will not be awarded to students who have credit for COU 901.

**COU 892. Leadership & Social Justice Adv. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. Orientation to leadership styles and issues relevant to counselor education and advanced application of social justice advocacy in counselor education. Credit will not be awarded to students who have credit for COU 909.

**COU 893. Scholarship and Pub in COU Ed. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. The planning and execution of scholarly writing and professional conference presentations in counselor education. Credit will not be awarded to students who have credit for COU 910.

**COU 894. Teaching in Counselor Ed. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. Pedagogical foundations of course development and classroom instruction in counselor education. Credit will not be awarded to students who have credit for COU 910.

**COU 895. Advanced Clinical Supervision. (3 Credits)**

A. Prerequisite: Admission to the Ed.D doctoral program, MA in Clinical Mental Health Counseling or MAEd in School Counseling. Advanced, integrative study of theories, models, and current issues in clinical supervision. Credit will not be awarded to students who have credit for COU 986.

**COU 900. Advanced Counseling Theories. (3 Credits)**

A. This course provides advanced instruction in the major and/or contemporary counseling theories. Students will apply the original works of major theorists and will assess and construct a personal counseling orientation as backed by research.

**COU 902. Advanced Group Counseling. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. (3 hours) Theoretical foundations of advanced group counseling (includes supervised experiential component via facilitation of master's level groups for in COU 820 course).

**COU 903. Adv Issues in Clin Mental Heal. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. Current topical issues, related to advanced counseling practice and counselor education.

**COU 904. Advanced Issues in School Coun. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. Current topical issues related to advanced school counseling, school leadership, and counselor education.

**COU 905. Sem in Rural/Appalachian Issue. (3 Credits)**

A. This course is an advanced application course of the field of marriage and family counseling/therapy. Students will apply family counseling techniques to case studies and real families.

**COU 906. Counseling: Adv Supervision. (3 Credits)**

A. Students will have the opportunity to refine their skills and enhance their understanding of clinical and administrative supervision in terms of various theoretical orientations and approaches to the art of supervision in counseling.

**COU 907. Counseling: Adv Practicum. (3 Credits)**

This course observation and counseling supervision in school, higher education, community, and controlled laboratory settings. One hundred hours of supervised fieldwork is required. Lectures, seminars, and research projects may also be included.

**COU 908. Counseling: Adv Internship. (3 Credits)**

A. Doctoral students are required to complete doctoral-level counseling internships that total a minimum of 600 clock hours. The 600 hours include supervised experiences in counselor education and supervision (e.g., clinical practice, research, and teaching).

**COU 912. Research Issues Counselor Ed. (3 Credits)**

This course deals with advanced quantitative and qualitative research methodology in the social sciences, specifically methodology to be used in advanced research in counselor education.

**COU 980. Doctoral Practicum. (1-3 Credits)**

(3) A. Prerequisite: Admission to the doctoral program. A supervised doctoral-level practicum experience in individual, group, and/or career counseling.

**COU 981. Doctoral Internship. (1-6 Credits)**

(3) A. Prerequisite: Admission to the doctoral program. A 600 hour internship to include professional work specified by CACREP standards such as Counseling; Teaching; Supervision, Research and Scholarship; and Leadership and Advocacy. (May be taken for variable credit from 1-6 hours.)

**COU 987. Supervision of Practicum. (3 Credits)**

A. Prerequisite: Admission to the doctoral program. Supervised practice of supervision of doctoral level practicum students.

## CPL Criminal Justice, Policy & (CPL)

**CPL 802. Violence Against Women. (3 Credits)**

A. This course provides students with a human right framework and cross-cultural understanding of violence against women, and efforts across societies to translate international knowledge into local justice for gender-based violence and female victims. Credit will not be awarded to students who have credit for CRJ 802.

**CPL 808. Anlys of Cor and Juv Just data. (3 Credits)**

A. Formerly COR 808. Prerequisites: undergraduate research methods and undergraduate statistics or departmental approval. This course examines techniques for analyzing data in corrections and juvenile justice. Emphasis is placed on analysis and interpretation of data using univariate, bivariate, and multivariate techniques.

**CPL 809. Pro/Policy Eval and Analysis. (3 Credits)**

A. Formerly JPL 809. Qualitative/quantitative concepts and procedures to manage, understand, and effectively consume program evaluation and statistically based-research. Reading, understanding, accurately interpreting evaluation-based research journals and governmentally produced research emphasized.

**CPL 810. Criminological Theory for Policy & Leadership. (3 Credits)**

A. Formerly JPL 810. Presents and critiques explanations of crime, delinquency, and criminalization processes with emphasis on application of explanations to criminal/juvenile justice policy/leadership issues. Credit will not be awarded for students who have credit for JPL 810.

**CPL 812. Lead w Pol, Eth, and Emo Intel. (3 Credits)**

A. Formerly JPL 812. This course examines leadership within the justice field, focusing on three competencies essential for effective, just leadership: political, ethical, and emotional intelligence. Understanding mindset/tactics associated with administrators that do/don't lead with these competencies. Credit will not be awarded to students who have credit for JPL 812.

**CPL 814. Policing and Society. (3 Credits)**

A. Theoretical, historical and comparative perspectives on policing. Critical analysis of the function of police in modern society. Credit will not be awarded to students who have credit for CRJ 814.

**CPL 818. Rsrch Mthds Jstc Plcy and Ldrs. (3 Credits)**

A. Formerly JPL 818. This course examines strategies/issues relevant to the collection and analysis of quantitative and qualitative data for criminal justice research. Special attention will be paid to the methodology most relevant to agency administration. Credit will not be awarded to students who have credit for JPL 818.

**CPL 820. Issues in Juv Instit/Com Cor. (3 Credits)**

A. Formerly JPL 820. Examines trends/issues central to understanding contemporary juvenile corrections/crime; correctional trends; historical development; use/effectiveness of various interventions (prevention, pre/post adjudicatory responses to juvenile offenders).

**CPL 823. Topics: Just Policy and Lead. (3 Credits)**

A. Formerly JPL 823. This is a variable topic seminar meant to provide in-depth, critical analyses of contemporary issues in adult corrections or juvenile justice, or police policy. The course may be retaken to a maximum of six hours on different topics.

**CPL 825. Illicit Offender Networks. (3 Credits)**

A. Formerly JPL 825. Examines structure/functions of inmate exchange networks. Discussion on markets for illicit goods, services; interpersonal, collective, sexual violence; staff complicity in illegal activities. Explore social/institutional factors impacting inmate exchange networks.

**CPL 826. Intr Response to Juv Adult Off. (3 Credits)**

A. Formerly JPL 826. Examination of adult and juvenile systems of punishment, traditional and non-traditional, of various nations. Explore critical issues/trends from several perspectives to develop deeper understanding of prison and alternatives in the US and world.

**CPL 827. Corrections & Crime Mythology. (3 Credits)**

A. Formerly JPL 827. Interrelatedness of social construction of issues in corrections, prisons, crime in popular/media culture with empirical realities of these issues. Examination of social and symbolic construction through analysis of film, literature, popular culture, academic literature.

**CPL 828. MH/Sub Abuse Issues in Cor Stg. (3 Credits)**

A. Formerly JPL 828. Explores prevalence, diagnosis, best practices for treatment of mental illness/substance abuse disorders; pressing issues facing the criminal justice system in the correctional population.

**CPL 830. Understanding Corr/Juv Just In. (3 Credits)**

A. Formerly JPL 830. Situates issues facing correctional organizations in historical, political, economic, cultural contexts. Emphasizes applying theory and critical thinking to address problems/issues/trends facing leaders in corrections and juvenile justice.

**CPL 835. Adv Jus Admin and Leadership. (3 Credits)**

A. Formerly JPL 835. An examination of theoretical bases and contemporary approaches to justice organizations, administration and leadership. Emphasis placed in the social, cultural, and political setting of justice administration and management. Credit will not be awarded to students who have credit for JPL 835.

**CPL 839. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly JPL 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for JPL 839.

**CPL 839A. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839B. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839C. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839D. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839E. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 839F. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**CPL 840. Adult Corrections. (3 Credits)**

A. Formerly JPL 840. This course analyzes current and emerging trends/issues in adult community and institutional corrections. The future of corrections is examined based on current and projected trends.

**CPL 850. Corr & Juv Just Interventions. (3 Credits)**

A. Formerly JPL 850. This course provides critical analyses of research and theories guiding effective rehabilitation programs in corrections and juvenile justice. It examines how various factors contribute to criminal behavior and how assessment procedures can improve programs.

**CPL 856. Law/Ethics in Dealing with Off. (3 Credits)**

A. Formerly JPL 856. Analyzes ethical and legal issues confronting leaders in adult and juvenile correctional agencies. Evaluates statutory law, case decisions, administrative promulgations from constitutional and socio-legal standpoints.

**CPL 857. Comm Context of Adult/Juv Cor. (3 Credits)**

A. Formerly JPL 857. Analyzes interaction between local communities/institutional/community corrections. Explores how community shapes offenders entering the correctional system; how the correctional system impacts local communities. Emphasis on subcultural theories of crime and communities; implications of re-integrating offenders.

**CPL 860. Advanced Organizational Theory. (3 Credits)**

A. Formerly CRJ 860. Analysis of theories/metaphors of organizations and management, including modernist, neo-modernist and post-modernist with respect to political, technological, environmental, historical contexts, with implications for organization design, structure, culture, leadership, strategy.

**CPL 862. Race, Identity & Policing. (3 Credits)**

A. Formerly CRJ 862. Examines why racial injustices exist in criminal justice and policing, using historical and contemporary studies of connections between race, poverty, and the criminal justice system/policing.

**CPL 864. Comparative & Intl Policing. (3 Credits)**

A. Examination of comparative and international policing focusing on the structure and processes of systems in other nations, their relative successes, failures, and effects on the world environment. Credit will not be awarded to students who have credit for CRJ 802.

**CPL 875. Crime and Public Policy. (3 Credits)**

A. Provides an overview of factors shaping crime policy. The concept of crime, the use of law to promote social control policies, policy responses related to crime control and the efficacy of those policies will be examined. Addresses conceptualizations of the modern state and the use of state power. Credit will not be awarded to students who have credit for CRJ 802.

**CPL 878. Capstone Applied Resrch Project. (3 Credits)**

A. Prerequisite: Complete core courses; final semester registration. Formerly JPL 878. Culminating academic experience involving research of well-defined appropriate topical methods of inquiry, integrating knowledge gained throughout program. Credit will not be awarded to students who have credit for JPL 878.

**CPL 897. Independent Study. (3 Credits)**

A. Formerly JPL 897. Students engage in self-directed learning at the university or in a field setting under graduate faculty supervision. Students must have completed a minimum of 6 hours of JPL coursework and have clear admission status to be eligible to register for this course. Additionally, students must have the independent study proposal form approved by faculty supervisor and the graduate director before enrolling. Credit will not be awarded to students who have credit for JPL 897.

## CRE Creative Thinking (CRE)

**CRE 101W. Introduction to Applied Creativity. (3 Credits)**

(3) A. Prerequisite or Corequisite: ENG 102 or ENG 105 (with a minimum grade of "B") or HON 102. A communication intensive introductory course establishing a foundation in creative thinking through instruction in basic theories and practices. Concentration on basic language and fundamental and powerful concepts in creativity studies. Credit will not be awarded to students who have credit for CRE 101.

**CRE 201. Innovation and Creativity. (3 Credits)**

A. Prerequisite: ENG 102 or departmental approval. Explores the creative approaches of recent (and historic) innovations in business, industry, and education through a case study approach.

**CRE 300. Pedagogy of Creativity Studies. (3 Credits)**

(3) A. Prerequisite: ENG 102 or departmental approval. An examination of pedagogical theories and practical strategies in the field of creativity studies. Emphasis on application of these approaches.

**CRE 301. Creativity Texts & Technology. (3 Credits)**

A. Prerequisite: ENG102 and at least 3 credits of CRE courses, or departmental approval. Explores the texts, technologies, and new media that allow students to create compelling messages and provides an introduction to creative production and appeals through technology.

**CRE 305. Creativity and Research. (3 Credits)**

A. Prerequisite: ENG 102 and at least 3 credits of CRE courses, or departmental approval. Extends the process of cultivating intentional and systematic creative competencies in students, honing in on information fluency development in scholarship and research.

**CRE 347. Special Topics in Creativity. (3 Credits)**

Prerequisite: ENG 102, 102R, 105(B), or HON 102, or departmental approval. Explores emerging and/or specialized topics in the area of creativity studies beyond the scope of regularly offered courses. May be repeated for a maximum of six hours, provided subject matter is different each time.

**CRE 400. Creativity Studies Project. (3 Credits)**

A. Prerequisites: coordinator approval; CRE 101 (C) and 12 hours of courses on CRE list. Requires portfolio, project, and presentation in the culminating creativity experience.

**CRE 450. Studio Theory & Practice. (3 Credits)**

A. Prerequisite ENG 102 or ENG 105(B) or HON 102. This course teaches students theories and practices of consulting in communication environments. Students learn effective strategies for providing feedback in individualized and small-group settings.

**CRE 490. Independent Study: Creative Thinking. (3 Credits)**

(3) A. Prerequisite: ENG 102 or departmental approval; student must consult with the faculty supervisor and have the independent study proposal form approved by faculty supervisor and program coordinator prior to enrollment. An independent study course focusing on a particular project or area in creative thinking of value to the field and interest to the student.

## CRJ Criminal Justice (CRJ)

### CRJ 101. Introduction to Criminal Justice. (3 Credits)

A. A general overview of the criminal justice system including a description of the major agencies: police, prosecution, courts, and corrections, and an analysis of their interdependence in the criminal justice process.

### CRJ 204. Foundations of Corrections. (3 Credits)

An overview of the evolution, structure, and functioning of corrections in the United States. Examines correctional processes, populations, and issues.

### CRJ 301. Drugs, Crime, and Society. (3 Credits)

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. An examination of drug trafficking, the connection between drug use and other types of crime, and a review of drug control policies, including the impact of the media and politics.

### CRJ 302. Living and Working in Prison. (3 Credits)

A. Cross-listed as COR 302. Examines inmate subcultures and violence in prisons. Analyzes prison environment for correctional officers. Explores life behind bars/ offender difficulties in reentering society.

### CRJ 303. Community Corrections. (3 Credits)

A. Cross-listed as COR 303. Explores impact offender have on community. Examines formal correctional options and alternative methods of social control used to manage offenders in community. Credit will not be awarded for both CRJ 303 and COR 303.

### CRJ 305. Domestic Violence. (3 Credits)

A. Cross listed as WGS 305. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or WGS 201 or departmental approval. Examination of the theoretical and empirical literature on violence against women, children, and elders. Addresses such issues as physical and sexual abuse of children, courtship violence, domestic violence, marital rape, and elder abuse. Credit will not be awarded to students who have credit for WGS 305.

### CRJ 310. Gangs and Society. (3 Credits)

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Explores the historical and contemporary development of street and institutional gangs. Examines the nature and definition of gangs, types of gangs, and diversity of membership of gangs. Analyzes social responses in the form of legislation, intervention and prevention strategies, public policy, media portrayals, and law enforcement. Identifies and assess social, behavioral, cultural theories of gangs and society. Credit will not be awarded for both CRJ 310, Gangs and Society, and CRJ 423, Topical Seminar: Gangs.

### CRJ 311. Juvenile Justice System. (3 Credits)

A. Cross-listed as COR 311. Examines the evolution of the juvenile justice system, police response to delinquency, and juvenile court's role in protecting the public and serving children. Credit will not be awarded for both CRJ 311 and COR 311.

### CRJ 313. Criminal Justice Ethics. (3 Credits)

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the moral, legal and normative obligations of the state and criminal justice professionals. Surveys the philosophies and theories of ethics and deviance. Credit will not be awarded for both CRJ 313 and CRJ 313W.

### CRJ 313S. Criminal Justice Ethics. (3 Credits)

A. Prerequisites: CRJ 101 with a grade of "C" or better, sophomore standing, or departmental approval. Examines the moral, legal and normative obligations of the state and criminal justice professionals. Surveys the philosophies and theories of ethics and deviance enhanced with a service-learning component. Credit will not be awarded to students who have credit for CRJ 313.

### CRJ 314. Law and Society. (3 Credits)

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critically examines law in everyday life. Law infuses popular media, constructs (and constrains) identity, and pervades language. In turn, media, identity, and discourse construct our understandings of law. Particular attention is paid to the law's role in practices and discourses of resistance and in exerting social control.

### CRJ 315. Administration of Justice. (3 Credits)

A. Prerequisites: CRJ 101 with a grade of C or better, sophomore standing, or departmental approval. Examines theories of organization and management as they relate to criminal justice practice. Organizational life, leadership personnel management, bureaucracy, resource management, and other critical administration issues are addressed.

### CRJ 323. Legal Issues in Adult Corrections. (3 Credits)

A. Cross-listed as COR 323. An overview on legal court decisions related to adult corrections. Analyzes legal issues surrounding adult correctional contexts and practices. Credit will not be awarded for both CRJ 323 and COR 323.

### CRJ 325. White Collar/Crimes of the Powerful. (3 Credits)

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A review and analysis of the upper world crimes of business and government committed in the course of legitimate occupations and financial activities.

### CRJ 331. Criminological Theory. (3 Credits)

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of criminological theoretical perspectives that attempt to explain crime. Credit will not be awarded for both CRJ 331 and CRJ 331W.

### CRJ 331W. Criminological Theory. (3 Credits)

A. Prerequisites: ENG 102 or 102R or ENG 105 or HON 102 and CRJ 101 or PLS 103 or SJS 101 or COR 201. Overview of criminological perspectives that attempt to explain crime. Credit will not be awarded for both CRJ 331W and CRJ 331.

### CRJ 340. Crime and Media. (3 Credits)

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critiques images of crime, criminals and punishment in American popular culture. Examines news media, film and television as sites of cultural production and consumption. Credit will not be awarded to students who have credit for CRJ 423 Topical Seminar: Crime and Media.

### CRJ 342. Victimology. (3 Credits)

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Explores the 'meaning' of victim and the social response to the victimization experience. Theories are utilized to examine victimization at the individual, organizational and societal levels within the U.S. and globally. Credit not awarded to students who have credit for CRJ 423 Victimology.

**CRJ 344. Violence Against Women. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201+ or departmental approval. Cross listed as WGS 344. Explores the social character of violence against women. A variety of theories are utilized to examine this phenomenon at the individual, organizational and societal levels. Credit will not be awarded to students who have credit for CRJ 423 Topical Seminar: Violence Against Women or WGS 344 Violence Against Women.

**CRJ 350. International and Comparative Criminal Justice Systems. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A survey of selected world criminal justice systems including police, courts, and corrections. Cross-national and cross-cultural criminality from several perspectives will be examined.

**CRJ 355. Rural Crime and Justice. (3 Credits)**

A. Prerequisite: APP 200 or CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Survey of rural crime and justice issues, crime trends, policing, and control of rural crime with particular attention given to Kentucky and Appalachia. Credit will not be awarded for both CRJ 355 and APP 355.

**CRJ 360. Rehabilitation Strategies for Adult and Juvenile Offenders. (3 Credits)**

A. Cross-listed as COR 360. Debates the rehabilitative goal of corrections and juvenile justice. Examines contemporary strategies and their effectiveness in controlling/changing offender behavior. Credit will not be awarded for both CRJ 360 and COR 360.

**CRJ 374. Wildlife Crime. (3 Credits)**

Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Explores wildlife crime as a subset of green criminology (the criminological study of environmental crimes and harms). Examines the nature and scope of wildlife crime, as well as responses thereto in the form of wildlife law, legislation, policy development, nongovernmental organizations, and law enforcement. Ideas and recommendations for addressing wildlife crime by justice systems are considered. Credit will not be awarded for both CRJ 374, Wildlife Crime, and CRJ 423, Topical Seminar: Wildlife Crime, or CRJ 423, .Topical Seminar: Policing Wildlife.

**CRJ 375. Climate Change and Crime. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of climate change and its effects. Draws on leading crime theories to discuss the potential impact of climate change on crime. Credit will not be awarded for both CRJ 375 Climate Change and Crime and CRJ 406 Critical Issues in CRJ: Climate Change and Crime.

**CRJ 388. Research Methods. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of the research process, with emphasis on finding, using, and evaluating criminal justice research. Examination of both quantitative and qualitative social science research methods and procedures appropriate to the study of crime policy and criminal justice. Credit will not be awarded to students who have credit for CRJ 388W.

**CRJ 388W. Research Methods. (3 Credits)**

A. Prerequisite: ENG 102 or 102R, or ENG 105, or HON 102 and CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of the research process, with emphasis on finding, using and evaluating criminal justice research. Examination of both quantitative and qualitative social science research methods and procedures appropriate to the study of crime policy and criminal justice. Credit will not be awarded to students who have credit for CRJ 388.

**CRJ 400. Criminal Justice Statistics. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Analytical and statistical concepts and procedures relevant to crime and criminal justice data. Includes quantitative and qualitative techniques.

**CRJ 401. Organized Crime. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. History, scope, and methods of control of organized crime. Emphasis on local, regional, national and international control of organized crime. Cultural and social implications of the presence of organized crime are examined in depth.

**CRJ 403. Crime Mapping. (3 Credits)**

A. Prerequisite: sophomore standing. The purpose of this class is to introduce the student to theoretical and practical aspects of crime mapping and the spatial analysis of crime. In addition the lab portion of the class will provide hands-on training in crime mapping practices. 3 Lec/2 Lab.

**CRJ 406. Critical Issues in Criminal Justice. (1-6 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201, sophomore standing, or departmental approval. Examination of the criminal justice system and process with an emphasis on problems and trends. This course provides an analytical overview of justice and its response to the needs of society. May be retaken for a maximum of six hours on different topics.

**CRJ 411. Capital Punishment in the U.S.. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the historical and contemporary administration of the death penalty in the United States. Credit will not be awarded for both CRJ 411 Capital Punishment in the U.S. and CRJ 423 Topical Seminar: Capital Punishment in the U.S.

**CRJ 412. Gender, Class, and Race. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critically examines gender, class and race and their intersections as they pertain to crime, offending, victimization, and punishment. This course will lead students to an understanding of how the criminal justice apparatus operates within larger social, political, and economic systems of oppression and domination over marginalized populations.

**CRJ 413. Addressing Mental Health and Substance Abuse Needs of Adult Offenders. (3 Credits)**

A. Formerly: COR 320. Cross-listed as COR 413. Examines etiology and effects of substance abuse/ mental health problems of adult offenders. Describes intervention strategies. Credit will not be awarded to students who have credit for COR 413 or COR 320.

**CRJ 422. Human Trafficking. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critically examines the global problem of human trafficking. Using a historical and comparative framework, this course reveals variation in human trafficking patterns in different regions of the world and efforts to combat human trafficking by means of prevention, protection, prosecution, and partnership.

**CRJ 423. Topical Seminar.\_\_\_\_. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Intensive study of selected topics related to criminal justice. May be retaken with different topics up to 12 credit hours.

**CRJ 424. Field Experience. (3 Credits)**

A. Prerequisites: instructor and departmental approval and CRJ 101 or PLS 103 or SJS 101 or COR 201. Designed to broaden the educational experience through appropriate observational work assignments. (Intended for pre-service students in non-sworn positions.) May be retaken 1 time for 6 total credit hours.

**CRJ 426. Victimology. (3 Credits)**

(3). A. Prerequisites: Sophomore standing. This course describes and examines victimization broadly including those of crime, their treatment by the criminal justice system, their resources, rights and needs, and situating the study of victims within larger social and power structures. Credit will not be awarded to students who have credit for CRJ 406 Critical Issues in Criminal Justice or CRJ 423 Topical Seminar in Victimology.

**CRJ 430. Crime and the Economy. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines capitalism as it contributes to crime. Demonstrates how cultural aspirations and structural barriers create a criminogenic society and socioeconomic bias in criminal justice.

**CRJ 440. Pathological Gambling and Crime. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. This course examines problem gambling and its relationship to crime and criminal justice. Special attention is given law, corrections, and offending. Credit will not be awarded for both CRJ 440 Pathological Gambling and Crime and CRJ 423 Topical Seminar: Problem Gambling.

**CRJ 460. Independent Study. (1-3 Credits)**

A. Prerequisites: departmental approval and instructor approval and CRJ 101 or PLS 103 or SJS 101 or COR 201. Individual study and/or research on a problem pertaining to criminal justice. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. May be retaken for a maximum of six hours.

**CRJ 490. Senior Seminar. (3 Credits)**

A. Prerequisites: senior standing and completion of CRJ 331, CRJ 388 and at least 21 hours of CRJ coursework or departmental approval. Capstone course consisting of development and production of a senior level research paper grounded in relevant criminal justice literature. Emphasis on integration of knowledge acquired in previous courses. Credit will not be awarded for both CRJ 490 and CRJ 490W.

**CRJ 490W. Senior Seminar. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or ENG 105 or HON 102 and senior standing and completion of CRJ 331, CRJ 388 and at least 21 hours of CRJ coursework or departmental approval. Capstone course requiring the production of a senior level paper grounded in relevant criminal justice literature. Emphasis on integration of knowledge acquired in previous courses. Credit will not be awarded for both CRJ 490 and CRJ 490W.

**CRJ 540. Special Problems in Crimin Law. (3 Credits)**

Advanced study of criminal law and criminal procedure. Consideration of problems relating to the police role in the administration of criminal justice and judicial enforcement of limitations upon police practices.

**CRJ 800. Advanced Crimi Justice Studies. (3 Credits)**

A. An orientation to our field of study as well as an examination of the criminal justice and crime control apparatus. Includes a review of the assumptions, theories, research, and normative orientations that underlie and drive criminal justice thinking and practice.

**CRJ 801. History of Criminal Justice. (3 Credits)**

A. An examination of the historical development of the criminal justice system.

**CRJ 802. Violence Against Women. (3 Credits)**

A. This course provides students with a human rights framework and cross-cultural understanding of violence against women, and efforts across societies to translate international knowledge into local justice for gender-based violence and female victims.

**CRJ 808. Analysis of Crimi Justice Data. (3 Credits)**

A. An examination of statistics and analysis in criminal justice research. Addresses epistemological presuppositions, statistical assumptions, results, and use of results for decision making.

**CRJ 810. Advanced Police Administration. (3 Credits)**

A. An examination of the functions of the police in the criminal justice system; concepts and principles of police organizational structure; concepts and principles of administration and management with an emphasis on the environment, change, conflict, strategy and evolution.

**CRJ 813. Analysis of Police Operations. (3 Credits)**

A. An analysis of the strategies and programs utilized in modern police work. Previous research studies and contemporary methods for assessing the effectiveness of police practices are examined.

**CRJ 814. Policing and Society. (3 Credits)**

A. Theoretical, historical and comparative perspectives on policing. Critical analysis of the function of police in modern society.

**CRJ 815. Policing Global Insecurity. (3 Credits)**

A. Examines global security threats (e.g. terrorism, transnational crime, ethnic cleansing) and the State and private sector's role in their construction and control. Late-modern social, political, and cultural movements are used to make theoretical sense of these phenomena.

**CRJ 821. Class, Race, Gender, & Justice. (3 Credits)**

A. Course will examine issues of justice related to race, gender, class and intersections inherent between multiple identities. Significant attention to marginalized populations/ disparate outcomes within particular institutions.

**CRJ 823. Social Justice and Music. (3 Credits)**

I, II. This course analyzes how American society and justice are reflected in popular music and its performance. The course examines connections between music, culture, history and society. A knowledge of music is not a pre-requisite.

**CRJ 829. Juvenile Justice. (3 Credits)**

A. This course presents a critical analysis of juvenile justice operations with particular emphasis placed on history and the role and effectiveness of police, court, and correctional responses to juvenile offenders.

**CRJ 833. Human Trafficking. (3 Credits)**

A. Critically examines the global problem of human trafficking and international legal frameworks, including obligations for prevention, protection, prosecution and partnership as it relates to addressing human trafficking.

**CRJ 840. Punishment and Society. (3 Credits)**

I. Beginning with the enlightenment and classical philosophers, students will examine historical and current trends in punishment and social control theory and practice. Addresses social control and punishment in late-modernity.

**CRJ 842. Human Rights & Justice. (3 Credits)**

A. Studies human rights movements, international law, and issues such as war on terrorism. Applies a paradigm of global human-rights justice to identify problem exemplars, exemplary problems solutions, and failing as well as failed paradigms.

**CRJ 843. Adv Issues in Criminal Law. (3 Credits)**

A. Advanced study of criminal law and procedure with emphasis upon judicial supervision of law enforcement and review of convictions.

**CRJ 844. Innocence Project Externship. (3 Credits)**

A. Corequisite and or Prerequisite: CRJ 843 and departmental approval. The externship is designed to teach students the fundamental components of effective criminal investigation. Students will have the opportunity to apply investigation skills and knowledge offered in the classroom to cases which may contain previously overlooked exculpatory evidence.

**CRJ 846. Legal Issues in Crim Just Admi. (3 Credits)**

A. Legal research methodology; examination of employment problems including labor-management relations and discrimination; administrative agencies; civil liability, including vicarious liability and related issues.

**CRJ 856. Legal & Ethical Issues in Corre. (3 Credits)**

An analysis of the impact of federal and state laws, court decisions, and moral and ethical issues in relation to treatment procedures for adult and juvenile offenders. Emphasis on offender's retention of constitutional guarantees.

**CRJ 864. Comparative & Intl Policing. (3 Credits)**

A. Examination of comparative and international policing focusing on the structure and processes of systems in other nations, their relative successes, failures, and effects on the world environment.

**CRJ 866. Law & the Juvenile Just System. (3 Credits)**

A study of laws relevant to the juvenile justice system with a major focus on further development of laws in terms of current needs and social situations of juvenile offenders.

**CRJ 870. Theories of Crime & Crim Just. (3 Credits)**

A. Examines the major theoretical perspectives in modern criminology and criminal justice, including classical statements and contemporary developments. Provides an exploration of theoretical arguments, underlying assumptions, philosophy of science commitments, and the sociohistorical context in which the theories were developed.

**CRJ 871. Crime, Victims and Criminals. (3 Credits)**

A. Examines the relationship between social inequality, crime, criminals and victims. Addresses the use of power in the construction of crime and the creation of law, as well as differential treatment by gender, race, ethnicity and class.

**CRJ 872. The Community Context of Crime. (3 Credits)**

A. Examines crime and synthesizes the body of theory and research examining community level effects on crime/crime control.

**CRJ 873. Social Construction of Crime. (3 Credits)**

A. Examines the social construction of crime including consideration of the process by which crime problems are generated.

**CRJ 874. Crime, Criminal Jus & Pop Cult. (3 Credits)**

A. Examines the interrelatedness of consumption, production, crime and popular culture. Examination of the social and symbolic construction of crime will be included through analysis of film, literature, music, and academic literature.

**CRJ 875. Crime and Public Policy. (3 Credits)**

A. Provides an overview of factors shaping crime policy. The concept of crime, the use of law to promote social control policies, policy responses related to crime control and the efficacy of those policies will be examined. Addresses conceptualizations of the modern state and the use of state power.

**CRJ 876. Organizational Crime. (3 Credits)**

A. This course explores empirical research, theories, and concepts related to crime committed within organizational contexts. Particular attention is paid to forms of syndicated crime, corporate crime, governmental corruption, and state crime.

**CRJ 877. Postmodernism and Justice. (3 Credits)**

A. An introduction to the ideas of postmodernism as applied to criminal justice. In contrast to the scientific model of inquiry most often used in criminal justice, the use of postmodernism brings to the field of criminal justice new models characterized by relationships, the importance of symbols, and assumptions that underlie our understanding of the concept of justice.

**CRJ 878. Ideology and Criminal Justice. (3 Credits)**

A. An assessment of the interrelatedness of crime and ideology. Includes an examination of the ideological construction of crime and crime control.

**CRJ 879. Vice and Criminal Justice. (3 Credits)**

A. A historical, analytic overview of America's response to vice. Particular topics will be chosen from the major vices in American society: prostitution, gambling, drugs and alcohol, as they relate to this country's relationship between morality and the criminal law.

**CRJ 888. Research Methods in Crim Just. (3 Credits)**

A. Prerequisites: undergraduate research methods and undergraduate statistics. Study of the philosophical foundations, design, and processes of criminal justice and criminological research: critical critique of current research issues in criminal justice.

**CRJ 889. Qualitative Research Methods. (3 Credits)**

A. A survey of qualitative research strategies and their epistemological presuppositions.

**CRJ 890. Topical Seminar in Crim Just. (1-3 Credits)**

A. May be retaken to a maximum of nine hours on different topics.

**CRJ 897. Independent Study in Crim Just. (1-9 Credits)**

A. Individual investigations in criminal justice. Under the supervision of a faculty advisor. Student must have the independent study proposal form approved by faculty supervisor and the criminal justice graduate program coordinator in the College of Justice and Safety prior to enrollment. May be retaken up to a maximum of nine hours.

**CRJ 898. Thesis I. (3 Credits)**

A. This course orients students toward the production of a proposal suitable for a thesis.

**CRJ 899. Thesis II. (3 Credits)**

A. Entails an oral presentation and defense of thesis.

## CSC Computer Science (CSC)

**CSC 101. The World of Code. (3 Credits)**

A. Prerequisite: Completion of all academic readiness requirements. Introduction to computational thinking through the exploration of code, its place in our lives, and the use of code for problem-solving. A beginning programming language will be used to explore key coding concepts such as making decisions and repetition.

**CSC 140. Introduction to Computer Game Design. (3 Credits)**

I, II. Prerequisite: a grade of "C" or higher in both CSC 185 and CSC 190. Introduction to computer game design, frame based animation, sound effects, program logic, game scripting, and object oriented programming.

**CSC 160. Introduction to Web Programming. (3 Credits)**

A. Prerequisite: MAT 112 A/B or higher with a grade of "C" or higher, or a minimum score of 22 on the mathematics portion of the ACT, or a minimum score of 530 on the math portion of the SAT, or a passing grade of the math Algebra placement test. Introduction to problem solving with computers and the Internet using an appropriate programming language. Basic concepts include data types, objects, control structures, functions, and input/output features. Gen. Ed. VII (QS).

**CSC 170. Intro to Game Programming. (3 Credits)**

A. Prerequisite: MAT 112 or 112B or 114 with a grade of "C" or better, or Math ACT score of 23 or higher, or Math SAT score of 560 or higher. Introduction to game programming using Python. Programming concepts including data types, input/output, and control structures will be introduced through the construction of various types of 2-D games. 3 Lecture/Lab.

**CSC 174. Introduction to Programming for Science & Engineering. (3 Credits)**

I, II. Prerequisite: MAT 122 or higher with a minimum grade of C, a minimum score of 25 on the mathematics portion of the ACT, or a minimum score of 590 on the math portion of the SAT. Introductory programming for scientific and engineering applications, input/output, decision, loops, arrays, subroutines, functions, files and simulation. Gen. Ed. VII (QS).

**CSC 177. Introduction to Visual Basic. (3 Credits)**

I, II. Prerequisite: MAT 112 A/B or higher with a grade of "C", or a minimum score of 22 on the mathematics portion of the ACT, or a minimum score of 530 on the math portion of the SAT, or a passing score on a math Algebra placement test. Introduction to programming in the event driven/graphical programming language Visual Basic. Topics include forms, common controls/objects, coding, procedures, file management and developing Windows applications. Gen. Ed. VII (QS).

**CSC 178. Introduction to \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: Minimum ACT Math score of 19, Minimum SAT math score of 510, or completion of MAT 105 or higher with a "C" or higher grade. Introduction to selected topics in computer science. May be retaken to a maximum of nine hours, provided the topics are different.

**CSC 185. Discrete Structures I. (3 Credits)**

I, II. Prerequisite: MAT 122 or higher with a grade of "C" or higher, or a minimum score of 25 on the mathematics portion of the ACT, or a minimum score of 590 on the math portion of the SAT. Introduce basic mathematical structures and logical principles for computer science. Practice step-by-step problem solving in support of good algorithm design and verification practices. Topics include basic counting, sequences, series and recurrence relations.

**CSC 189. Computing Concepts and Programming. (3 Credits)**

(3) A. Prerequisite: MAT 122 or higher (minimum grade of C) or a minimum of 25 on the mathematics portion of the ACT or a minimum of 590 on the mathematics portion of the SAT. Introduction to the computing concepts and programming. Topics include numbering systems, computing system concepts, problem solving with computers using an object-oriented programming language. 2 Lec/2 Lab.

**CSC 190. Object- Oriented Programming I. (3 Credits)**

I, II. Prerequisite: MAT 122 or higher with a grade of "C" or higher, a minimum of 25 on the mathematics portion of the ACT or a minimum of 590 on the mathematics portion of the SAT. Introduction to problem solving with computers using an object-oriented programming language. Concepts include data types, input/output, classes, control structures, and arrays. 3 Lec/2 Lab. Gen. Ed. VII (QS).

**CSC 191. Object- Oriented Programming II. (3 Credits)**

I, II. Prerequisite: a minimum grade of "C" in both CSC 185 and CSC 190. Object-oriented programming, recursion, arrays, inheritance, file input/output, exception handling, multi-thread programming, GUI, object-oriented analysis and design. 3 Lec/2 Lab.

**CSC 195. Discrete Structures II. (3 Credits)**

I, II. Prerequisites: a minimum grade of "C" in both CSC 185 and CSC 190. Develop foundation and analysis technique in mathematical structures for computing. Topics include sets, relations, functions; logic; algorithm design/ analysis, recursive algorithms, recurrence relations, mathematical induction, counting, probability. 3 Lec/2 Lab.

**CSC 210. Data Structures and Programming. (3 Credits)**

(3) A. Prerequisite: A minimum grade of "C" in CSC 189 or CSC 190. Object-oriented programming, inheritance, arrays, stacks, queues, trees, hashing, recursions, and exception handling. 3 Lec/2 Lab.

**CSC 250. Intro to Interactive Games/App. (3 Credits)**

A. Prerequisite: CSC 190 with a minimum grade "C". Introduction to multimedia programming and scripting. Topics include frame-based animation, video editing, sound effects, program logic, and object-oriented programming. Credit will not be awarded to student who have credit for for CSC 140.

**CSC 302. Introduction to System Environ. (3 Credits)**

I, II. Prerequisite: CSC 191 with a minimum of grade of C. Introduction to computer system environments, utilities, system programming, system administration, networking and operating systems.

**CSC 306. Ethics for the Comput Profess. (3 Credits)**

A. Prerequisite: CSC 191 with a minimum grade of C. Responsibilities of the computing professional, social implications of computing, privacy, crime and abuse, risk and liabilities, copyright, and patents.

**CSC 308. Mobile App Development for Apple iOS. (3 Credits)**

Prerequisite: A minimum grade of "C" in CSC 191 and CSC 195 or in CSC 210. Introduction to developing mobile applications for Apple iOS. Topics include development tools, APIs, user interfaces, mobile-specific technologies and application design.

**CSC 309. Mobile App Dev for Android. (3 Credits)**

(3) A. Prerequisite: A minimum grade of "C" in CSC 191 and CSC 195 or in CSC 210. Introduction to developing mobile device web sites and applications for Android. Topics include development tools, APIs, user interfaces, mobile-specific technologies and application design.

**CSC 310. Data Structures. (3 Credits)**

I, II. Prerequisites: CSC 191 and CSC 195 with a minimum grade of C in both. The application and implementation of data structures including arrays, stacks, queues, linked lists, and trees. Internal searching and sorting techniques. The analysis of algorithms.

**CSC 311. Algorithms I. (3 Credits)**

A. Prerequisites: CSC 191, CSC 195, and MAT 234 or MAT 234H with a grade of "C" or better in all three courses. Logic and proof, mathematical induction; order of magnitude, recurrence, relations, analysis of recursive algorithms; Boolean algebra and logic networks, networks for adding, merging and sorting; matrices; finite state machines, push-down automata, linear bound automata, Turing machines; formal languages.

**CSC 312. File Processing. (3 Credits)**

I, II. Prerequisite: CSC 310 with a minimum grade of C-. File organization and file storage devices. Topics include external sorting, sequential file processing, hashing, B+ trees, and introduction to databases.

**CSC 313. Database Systems. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 191 and CSC 195 or in CSC 210. Introduction to databases, storage and retrieval of data, report generation, interface and application development, online queries, XML, multimedia database, and database security.

**CSC 315. 3D Modeling. (3 Credits)**

A. Prerequisite: CSC 191 and CSC 195 with a grade of "C" or better in both courses. An introduction to geometric representations in 3D. Topics include polygon and spline modeling, texture mapping, materials, 3D scanning, and topics in animation including character rigging.

**CSC 316. 3D Game Engine Design. (3 Credits)**

A. Prerequisite: A grade of "C" or higher in CSC 310. Introduction to 3D animation and programming. Topics include coordinate systems, vertices, lines, polygons, geometric objects, 3D models, motion control, and interaction design.

**CSC 320. Algorithms II. (3 Credits)**

A. Prerequisites: CSC 310 and 311 with a minimum grade of "C" in both courses. Fundamental algorithms required in computer science; algorithm design/analysis methods, graph algorithms, probabilistic and parallel algorithms, and computational models.

**CSC 330. System Environments & Networks. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 191 or in CSC 210. Introduction to computer system environments, utilities, system administration, and networking.

**CSC 332. Digital Storage Device Forensics. (3 Credits)**

A. Prerequisite: a minimum grade of "C" in CSC 210 or CSC 310. Introduction to digital storage forensics. Topics include digital investigation fundamentals, fundamentals of storage devices (hard disk, optical, flash, consumer electronics devices, and mobile devices), disk volume analysis, and file systems analysis (FAT/NTFS, Ext 2/3/4, UFS 1/2, HFS/HFS+/HFSX).

**CSC 338. Fundamentals of Cybersecurity. (3 Credits)**

Pre-requisite: A minimum grade of "C" in CSC 210 or CSC 310. This course discusses the fundamentals of cybersecurity. Topics include information security principles, network and Internet basics, hacker techniques, cybersecurity technologies, encryption, security policies, cyber terrorism and information warfare, cyber detective, digital forensics, cybersecurity engineering, and society security.

**CSC 340. Ethics & Software Engineering. (3 Credits)**

A. Prerequisite: CSC 310 and 313 with a minimum grade of "C" in both courses. Responsibilities of software professionals, social implications of software such as privacy, crime and abuse, risk and liabilities, copyright, and patents, software project planning, software requirements analysis, software design, and software testing.

**CSC 349. Applied Learning in Computer Science. (0.5-8 Credits)**

I, II; (1-6) SUMMER ONLY. Prerequisite: students must have successfully completed 30 semester hours of course work including six hours of Computer Science major courses. In addition, transfer students must have completed at least one semester of full-time course work at EKU. Work in placements related to academic studies. A maximum of three hours may be applied toward the Computer Science technology option degree only. Credit does not apply to general Computer Science major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment is required for each semester hour of academic credit. Credit may only be awarded in the semester in which the work is completed.

**CSC 349A. Cooperative Study: Computer Science. (0.5-8 Credits)**

I, II; (1-6) SUMMER ONLY. Prerequisite: students must have successfully completed 30 semester hours of course work including six hours of Computer Science major courses. In addition, transfer students must have completed at least one semester of full-time course work at EKU. Work in placements related to academic studies. A maximum of three hours may be applied toward the Computer Science technology option degree only. Credit does not apply to general Computer Science major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment is required for each semester hour of academic credit. Credit may only be awarded in the semester in which the work is completed.

**CSC 349B. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349C. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349D. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349E. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349F. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349G. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 349H. Cooperative Study: Computer Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**CSC 350. Principles of Prog Languages. (3 Credits)**

I, II. Prerequisites: CSC 200 and 310 with a minimum grade of "C" in both courses. The principles used in the design and implementation of programming languages. Language descriptions, structural implementations, and specialized features of languages.

**CSC 360. Computer Org & Architecture. (3 Credits)**

(3) A. Prerequisite: CSC 191 with a minimum grade of "C" or CSC 210. Information representation, instruction set architecture, assembly language, instruction execution, basic processing units, input/output organization, memory and storage organization, overlap and pipeline processing, parallel processing, and performance evaluation. Credit will not be awarded for both CSC 360 and 370.

**CSC 390. Advanced Programming Techniques with \_\_\_\_\_. (3 Credits)**

A. Prerequisite: CSC 191, with a minimum grade of "C." Advanced programming with a selected programming language, with appropriate applications. May be taken to a maximum of six hours, provided the languages are different.

**CSC 400. Operating Systems. (3 Credits)**

I, II. Prerequisites: CSC 310 and 360 with a grade of "C" or higher in both courses. Overall structure of multiprogramming systems, details of addressing techniques, memory-management, file system design and management, traffic control, interprocess communication, system module design, interfaces.

**CSC 401. Network & System Programming. (3 Credits)**

A. Prerequisites: CSC 302, CSC 370 or EET 254. Technical programming in the UNIX and the Internet environments: shell scripts, TCP/IP, HTML, CGI, and JavaScript. Survey of Internet protocols.

**CSC 410. Cyber Networking and Security. (3 Credits)**

(3) A. Prerequisite: CSC 210 or CSC 310 with a minimum grade of "C". This course discusses the fundamentals of computer networking and cyber security. Topics include layered protocols of computer network, Internet architecture and applications, cyber security and defense technologies.

**CSC 440. Applied Software Engineering. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 340. Techniques and tools for software requirements, software design, software testing, and software project planning as a team project for majors in computer science.

**CSC 460. Computer Network & System Administration. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 210 CSC 310. Introduction to the subject of computer networks and layered protocols, architecture of data communication systems, point-to-point networks, local networks, end-to-end protocols and internetworking, and server-side technology to create interactive web pages.

**CSC 490. Seminar in \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. For advanced students in computer science. Subject announced when offered. May be retaken to a maximum of 12 hours, provided that the topics are different.

**CSC 491. Game Design Capstone. (3 Credits)**

A. Prerequisite: CSC 140 and INF 391 with a grade of "C" or higher. Level design, storyboarding, character modeling, game scripting, game interface design, audio effects, marketing, and ethics. Students will work in groups to develop a computer game term project. May be retaken to a maximum of 6 hours.

**CSC 494. Innovative Problem Solving. (1-3 Credits)**

Prerequisite: Departmental approval. An individually developed project related to an innovative solution of a problem provided by the software industry. The result is to be presented in open forum. May be retaken to a maximum of 6 hours provided the topics are different.

**CSC 495. Independent Work. (1-3 Credits)**

I, II. Prerequisite: A grade of "C" or higher in ENG 102, 105 (B), or HON 102 and departmental approval. Directed study/ research on a problem or area chosen in consultation with the instructor. Final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of twelve hours.

**CSC 496. Senior Seminar. (1 Credit)**

Prerequisite: CSC 340 with a minimum grade of "C". Critically evaluate current issues in computer science and effectively communicate creative ideas with professionals to foster collaborative problem solving.

**CSC 499. CS Career Preparation. (1 Credit)**

A. Prerequisite: CSC 310 with a grade of "C" or better. Career preparation for students seeking internship or permanent jobs. Job search, resume creation, interview techniques for application of computer science positions. 2 Lec.

**CSC 507. Special Topics:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics vary with offering. May be retaken to a maximum of six times, with advisor approval, provided the topics are different.

**CSC 520. Multimedia System and Forensics. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 210 CSC 310. Integration of multimedia technologies, signal processing and compression of images, audio, and video, multimedia forensics and message hiding.

**CSC 530. Programming and Data Structures. (3 Credits)**

A. Prerequisite: At least a "C" in CSC 190 and 191, or equivalent courses. The application and implementation of data structures including arrays, linked lists, stacks, queues, heaps, trees and graphs and their related algorithms, using an object-oriented programming language. Credit does not apply to the B.S. degree in Computer Science or the B.S. degree in Digital Forensics and Cybersecurity.

**CSC 535. Discrete Structures. (3 Credits)**

A. Prerequisite: MAT 112, 114 or equivalent. Corequisite: CSC 530. Logic, sets, functions, Boolean algebra, probability and their applications, number theory, recursion, math induction proofs with application of these topics to computer science.

**CSC 536. Incident Response I. (3 Credits)**

(3) A. Prerequisite: CSC 410 with a minimum grade of "C". This course discusses the details of various aspects of cybersecurity incident response. Topics include pre-incident preparation, incident detection and characterization, data collection and analysis, and remediation.

**CSC 537. Incident Response II. (3 Credits)**

(3) A. Prerequisite: CSC536 with a minimum grade of "C". This course discusses cybersecurity incident response in the context of various computing platforms. Topics include dead-box analysis, memory analysis, log analysis, and malware analysis in Windows, Linux and MacOS Systems.

**CSC 538. Computer Crime and Forensics. (3 Credits)**

A. Introductory course on computer crime and forensics. Computer criminal evidence collection, analysis and handling; computer forensics tools; data acquisition; digital evidence control; Windows and Linux systems investigation; email investigation; network forensics; computer forensic report writing.

**CSC 539. MAC Forensics. (3 Credits)**

(3) A. Prerequisite: INF 322. This course covers the basic knowledge and skills necessary to analyze MAC operating system artifacts for digital evidence recovery. The topics include: MAC OS overview, GPT partitioning system, MAC system acquisition, MAC directory structure and evidence, Property lists, User logon password recovery, Safari and Firefox artifacts, iChat artifacts, Apple mail analysis, and other related topics.

**CSC 541. Software Testing. (3 Credits)**

(3) A. Prerequisites: Senior standing and CSC 310 with a grade of "C" or higher. The purpose of this course is to study software testing process, methods, techniques and tools. Topics include black box testing, white box testing, integration testing, acceptance testing, regression testing, performance testing, stress testing, and testing of object-oriented software.

**CSC 542. Internet Forensics. (3 Credits)**

(A). Prerequisite: INF 322 with a minimum grade of "C". This course covers the basic knowledge and skills necessary to analyze Internet-based applications artifacts for digital evidence recovery. The topics include popular Web browsers, instant messengers, and social media apps.

**CSC 543. Windows Forensics. (3 Credits)**

(3) A. Prerequisite: INF 322. This course covers the basic knowledge and skills necessary to analyze MS Windows operating system artifacts for digital evidence recovery. The topics include: Windows OS overview, System bitlocker, GPT file system, Windows Security Model, Windows registry, USB devices, Windows event logs, Windows recycle bin, and other related topics.

**CSC 544. Database Admin and Security. (3 Credits)**

Prerequisite: A minimum grade of "C" in CSC 210 or CSC 310. This course covers database management system concepts, database system architecture, installation and setup, data management, performance monitoring and tuning, backup and recovery, database security models and management, database auditing.

**CSC 545. Theory of Database Systems. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 210 or CSC 310. Models and principles of information systems. Database languages. The logical and physical design as well as the implementation and use of database systems.

**CSC 546. Artificial Intelligence. (3 Credits)**

A. Prerequisite: A minimum grade of "C" in CSC 210 or CSC 310 and STA 270. The use of programming languages to model concepts selected from artificial intelligence. The application of heuristics to problem solving. Perception and pattern recognition.

**CSC 547. Network Forensic and Investigation. (3 Credits)**

A. Prerequisites: Senior standing and CSC 400 with a grade of "C" or higher. Introduction to Windows network forensics. Topics include: Windows network structure; Windows password/authentication mechanisms; Windows ports and services; Live-analysis techniques; Windows registry structure and evidence; Forensic analysis of events logs; Network forensics tools and reporting.

**CSC 548. Personal Electronic Device Forensics. (3 Credits)**

A. Prerequisite: CSC 332 with a grade of "C" or higher. Introduction to personal electronic device forensics. Topics include architecture, functionality, operating systems implementation of PEDs (cell phones, PDAs, iPod, MP3 music players, GPS devices), recovering evidence from PEDs, and hostile forensic and booby-trapping techniques.

**CSC 549. Computer Forensics Capstone. (3 Credits)**

A. Prerequisite: CSC 332 with a grade of "C" or higher. Project course. Students apply learned digital forensic knowledge, techniques, and software and hardware tools to work on a team project on a case for digital evidence collection, handling, analysis, and reporting.

**CSC 550. Graphics Programming. (3 Credits)**

A. Prerequisites: CSC 316 with a grade of "C" or higher. 3-D geometry, model transformation, matrices, computer algorithms and protocols, texture mapping, camera control, and collision detection.

**CSC 555. Topics in Multimedia:\_\_\_\_. (3 Credits)**

A. Prerequisite: departmental approval. For advanced students in computer science. Subject announced when offered. May be retaken to a maximum of six hours, provided that the topics are different.

**CSC 581. Machine Learning. (3 Credits)**

(3) A. Prerequisites: A grade of "C" or higher in CSC 210 or 310 and STA 270. Introduction to Machine Learning and its core models and algorithms. Hands-on R programming experiences of using machine learning/deep learning algorithms to analyze real-world data sets.

**CSC 582. Big Data. (3 Credits)**

(3) A. Prerequisites: A grade of "C" or higher in all CSC 310. Advanced cutting edge and state-of-the-arts knowledge and implementation in big data. Modern deep learning tools for analyzing real-world data sets.

**CSC 583. Data Visualization. (3 Credits)**

(3) A. Prerequisites: CSC 310. Principles and techniques for data visualization, including visual representation methods and techniques for increasing the understanding of complex data and models. Hands-on visual programming experiences in data collection and demonstration.

**CSC 707. Special Topics: Comp Sci:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topics vary with offering. May be retaken to a maximum of six hours, with advisor approval, provided the topics are different.

**CSC 720. Multimedia Systems & Forensics. (3 Credits)**

A. Prerequisite: admission to the master's degree program in computer science departmental approval. Integration of multimedia technologies, signal processing and compression of images, audio, and video, multimedia forensics and message hiding.

**CSC 730. Programming and Data Structure. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. The application and implementation of data structures including arrays, linked lists, stacks, queues, heaps, trees and graphs and their related algorithms, using an object-oriented programming language.

**CSC 735. Discrete Structures. (3 Credits)**

A. Prerequisite: MAT 107 or departmental approval. Corequisite: CSC 730. Logic, sets, functions, Boolean algebra, probability and their applications, number theory, recursion, math induction, proofs with application of these topics to computer science. Credit does not apply toward the M.S. degree in Mathematical Sciences.

**CSC 736. Incident Response I. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. This course discusses the details of various aspects of cybersecurity incident response. Topics include pre-incident preparation, incident detection and characterization, data collection and analysis, and remediation.

**CSC 737. Incident Response II. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. This course discusses cybersecurity incident response in the context of various computing platforms. Topics include dead-box analysis, memory analysis, log analysis, and malware analysis in Windows, Linux and MacOS Systems.

**CSC 738. Computer Crime and Forensics. (3 Credits)**

A. Study of computer crime and forensics. Computer criminal evidence collection, analysis, and handling; computer forensics tools; data acquisition; digital evidence control; Windows and Linux systems investigation; email investigation; network forensics; computer forensic reporting.

**CSC 739. MAC Forensics. (3 Credits)**

(3) A. Prerequisite: departmental approval. This course covers the basic knowledge and skills necessary to analyze MAC operating system artifacts for digital evidence recovery. The topics include: MAC OS overview, GPT partitioning system, MAC system acquisition, MAC directory structure and evidence, Property lists, User logon password recovery, Safari and Firefox artifacts, iChat artifacts, Apple mail analysis, and other related topics.

**CSC 741. Software Testing. (3 Credits)**

(3) A. Prerequisite: CSC 730. The purpose of this course is to study software testing process, methods, techniques and tools. Topics include black box testing, white box testing, integration testing, acceptance testing, regression testing, performance testing, stress testing, and testing of object-oriented software.

**CSC 742. Internet Forensics. (3 Credits)**

(A). Prerequisite: CSC 730 or departmental approval. This course covers the basic knowledge and skills necessary to analyze Internet-based applications artifacts for digital evidence recovery. The topics include popular Web browsers, instant messengers, and social media apps.

**CSC 743. Windows Forensics. (3 Credits)**

(3) A. Prerequisite: departmental approval. This course covers the basic knowledge and skills necessary to analyze MS Windows operating system artifacts for digital evidence recovery. The topics include: Windows OS overview, System bitlocker, GPT file system, Windows Security Model, Windows registry, USB devices, Windows event logs, Windows recycle bin, and other related topics.

**CSC 744. Database Admin and Security. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. This course covers database management system concepts, database system architecture, installation and setup, data management, performance monitoring and tuning, backup and recovery, database security models and management, database auditing.

**CSC 745. Theory of Database Systems. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. Models and principles of information systems. Database languages. The logical and physical design as well as the implementation and use of database systems.

**CSC 746. Artificial Intelligence. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. The use of programming languages to model concepts selected from artificial intelligence. The application of heuristics to problem solving. Perception and pattern recognition.

**CSC 747. Network Forensics & Invest. (3 Credits)**

A. Introduction to Windows network forensics. Topics include: Windows network structure; Windows password/authentication mechanisms; Windows ports and services; Live-analysis techniques; Windows registry structure and evidence; Forensic analysis of events logs; Network forensics tools and reporting.

**CSC 748. Personal Elec. Device Forensic. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. Introduction to personal electronic device forensics. Topics include architecture, functionality, operating systems, and implementation of PEDs (cell phones, PDAs, iPod, MP3 music players, GPS devices), recovering evidence from PEDs, and hostile forensic and booby-trapping techniques.

**CSC 749. Computer Forensics Capstone. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. Project course. Students apply learned digital forensic knowledge, techniques, and software and hardware tools to work on a team project on a case for digital evidence collection, handling, analysis, and reporting.

**CSC 750. Graphics Programming. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. 3-D geometry, model transformation, matrices, computer algorithms and protocols, texture mapping, camera control, and collision detection.

**CSC 755. Topics in Multimedia:\_\_\_\_\_. (3 Credits)**

A. Prerequisite: departmental approval. For advanced students in computer science. Subject announced when offered. May be retaken to a maximum of six hours, provided that the topics are different.

**CSC 781. Machine Learning. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Introduction to Machine Learning and its core models and algorithms. Hands-on R programming experiences of using machine learning/deep learning algorithms to analyze real-world data sets.

**CSC 782. Big Data. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Advanced cutting edge and state-of-the-arts knowledge and implementation in big data. Modern deep learning tools for analyzing real-world data sets.

**CSC 783. Data Visualization. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Principles and techniques for data visualization, including visual representation methods and techniques for increasing the understanding of complex data and models. Hands-on visual programming experiences in data collection and demonstration.

**CSC 801. Object-Oriented Programming. (3 Credits)**

(3) I, II. Prerequisite: Admission to the Master's degree program in Computer Science or Departmental approval. The problem solving and algorithm design through object-oriented programming. Topics include core concepts in a high-level programming language (data types, control structures, arrays, and exception handling) as well as object-oriented techniques (classes, objects, methods, inheritance and polymorphism.)

**CSC 812. Microc Architecture & Software. (3 Credits)**

A. Prerequisite: CSC 730 or departmental approval. Topics suitable for a microcomputer laboratory systems manager including IBM PC architecture and assembly language, local area networks, MS DOS, copyright law, viruses.

**CSC 815. Computer Admin and Security. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Operating system concepts, installation and setup system administration, managing system services, program security, viruses and worms, encryption, information database security, security policies, legal and ethical issues.

**CSC 825. Network Applic and Security. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Local Area Networks, TCP/IP, Internet Protocols, Client/Server applications. Dynamic web pages, Internet security, firewalls, virtual private networks, network attacks, Web and E-commerce security, wireless networking and security.

**CSC 831. Databases and Algorithms. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Models and principles of information systems and database languages. The logical and physical design as well as the implementation and use of database systems.

**CSC 833. Data Structure & Algorithms II. (3 Credits)**

A. Prerequisite: CSC 831. Pattern matching, graph theory algorithms, computational complexity, and cryptography.

**CSC 834. Software Engineering. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. Planning, organizing, monitoring, and controlling the implementation of a software project.

**CSC 835. Project Management. (3 Credits)**

A. Prerequisites: CSC 801 or departmental approval. A survey of current issues in Software Engineering, software testing, metrics, quality assurance, software reuse, and re-engineering.

**CSC 839. Co-op or Appl Lrn: Comp Scienc. (0.5-3 Credits)**

Prerequisite: departmental approval. May be retaken with approval to a maximum of three credit hours. Employment with faculty and field supervision in an area related to the student's academic interests. A Minimum of eighty hours of employment is required for each academic credit.

**CSC 839A. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 839B. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 839C. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 839D. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 839E. Coop Study: Computer Science. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**CSC 842. Parallel Algorithms. (3 Credits)**

A. Prerequisite: CSC 831. The design and analysis of parallel algorithms. Application to merging, sorting, combinatorics and numerical algorithms.

**CSC 860. System Prog & Administration. (3 Credits)**

A. Prerequisite: CSC 730. Operating system concepts, concurrent programming, scheduling, security, recovery, methods and languages for operating system management. Layering protocols for computer networks, inter-process communications, TCP/IP Internet protocols, Web programming, and Web server management. Credit does not apply toward the M.S. degree in Mathematical Sciences.

**CSC 880. Seminar in : \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Advanced topics in computer science. May be retaken to a maximum of six hours provided the topics are different.

**CSC 890. Independent Study in \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Independent study on a problem chosen by the student and instructor. Student must have the independent study form and course syllabus approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of nine hours, provided that the topics are different.

**CSC 895. Applied Computing Project in:\_. (3-6 Credits)**

A. Prerequisite: departmental approval. An individually developed project related to the solution of a typical problem in an applied computing environment. The result is to be presented in open forum. Credit does not apply towards the M.S. degree in Mathematical Sciences.

## CSD Comm Sciences & Disorders (CSD)

**CSD 250. Phonetics. (3 Credits)**

I. Formerly CDS 250. Prerequisite: admission to CDS program. Study of the articulatory postures and movements used to produce standard English and defective sounds. Introduction of the International Phonetic Alphabet and practice in using it to transcribe both normal and defective speech.

**CSD 273. Observation in Comm. Disorders. (1 Credit)**

II. Formerly CDS 273. Prerequisite: admission to CDS program. Supervised clinical observation of therapy and/or diagnostic services for individuals with communication disorders. Instruction in report writing and observing in various settings. Students must complete 25 clock hours of observation by the end of this semester.

**CSD 275. Intro Communication Disorders. (3 Credits)**

I. Formerly CDS 275. Introduction to the nature and causes of speech, language, and hearing disorders. An overview of the field of communication disorders and sciences.

**CSD 285. Anat. & Phys. Sp. Hearing Mech. (3 Credits)**

I. Formerly CDS 285. Prerequisite: admission to CDS program. Introduction to the anatomical and physiological bases of hearing, respiration, phonation, resonance, and articulation.

**CSD 311. CSD in Health Care Systems. (3 Credits)**

I, II. Review of the wellness-illness spectrum and the societal response in terms of health services. Topics to be covered include the nature and functions of health services agencies and professionals, and the impact of social, political, economic, regulatory, and technological forces. Also includes a discussion of major health problems and related health care programs.

**CSD 360. Normal Speech & Lang. Dev.. (3 Credits)**

II. Formerly CDS 360. Normal speech and language acquisition from birth through the developmental years; basic linguistic concepts and theories; language differences.

**CSD 365. Language Disorders: Assessment. (3 Credits)**

I. Formerly CDS 365. Prerequisite: admission to the CDS program. Prerequisite/Corequisite: CDS 360. Methods of assessing language content/form/use. Assessment techniques will include standardized tests, language sampling and analysis, and observational techniques and scales.

**CSD 372. Methods & Materials Comm. Dis.. (3 Credits)**

II. Formerly CDS 372. Prerequisite: admission to the CDS program. Overview of scope of practice and credentials for service delivery; management of therapy sessions; clinical policies and procedures; Code of Ethics; precautions for infectious disease control; development of therapy materials and oral mechanism examination kit.

**CSD 373. Articulation & Phon. Disorders. (3 Credits)**

II. Formerly CDS 373. Prerequisite: admission to the CDS program. Characteristics of articulation and phonological problems. Principles of identification and treatment.

**CSD 374. Practicum in Speech Pathology. (3 Credits)**

I. Formerly CDS 374. Prerequisites: 25 hours of observation in communication disorders and sciences, CDS 372 and 373, and overall 3.0 GPA, or Clinic Director approval. Supervised clinical practicum in communication disorders services. May be retaken to a maximum of six credit hours.

**CSD 380. Intro to Clinical Audiology. (3 Credits)**

I, II. Formerly CDS 380. Prerequisite: admission to CDS program. Physics of sound, anatomy & physiology of hearing, auditory pathologies, and introduction of basic audiological assessment.

**CSD 464. Lang. Disorders: Intervention. (3 Credits)**

II. Formerly CDS 464. Prerequisites: CDS 360 and 365. Study of language impairment in children and principles for remediation.

**CSD 465. Disorders of Fluency. (3 Credits)**

I. Formerly CDS 465. Prerequisite: admission to the CDS program. Lectures and selected readings in the theoretical, etiological, and developmental views of assessment and management of stuttering problems in children.

**CSD 474. Adv Practicum in Speech Path. (3 Credits)**

II. Formerly CSD 474. Prerequisites: Overall 3.0 GPA and CDS 374, or Clinic Director approval. Advanced supervised clinical practice in communication disorders services. May be retaken to a maximum of six credit hours.

**CSD 475. Voice Disorders. (3 Credits)**

I. Formerly CDS 475. Prerequisite: admission to the CDS program. Lectures and selected readings in etiological perspectives of functional and organic voices disorders; assessment, classification, and treatment designs for vocal pathologies in children.

**CSD 485. Audiologic Evaluation. (3 Credits)**

II. Formerly CDS 485. Prerequisite: CDS 380. Fundamentals of audiometric assessment, immittance measurement, and electrophysiology via lecture and integrated lab simulations. Techniques for audiometric data collection, interpretation, and reporting. Lec/Lab.

**CSD 487. Aural Rehabilitation. (3 Credits)**

I. Formerly 487. Prerequisite: CDS 380 or departmental approval. Fundamentals of aural habilitation/rehabilitation in the form of amplification (hearing aids, cochlear implants, assistive listening devices), speech reading, auditory-visual-kinesthetic perception, pediatric rehab techniques, educational management, counseling.

**CSD 488. Practicum in Audiology. (1 Credit)**

I, II. Formerly CDS 488. Prerequisites: Overall 3.0 GPA or Clinic Director approval. Supervised clinical practice in audiology. May be retaken to a maximum of two credit hours.

**CSD 520. Augment & Alterna Comm Systems. (3 Credits)**

A. An overview of various approaches to aided non-oral systems of communication. Various devices and symbol systems will be discussed.

**CSD 525. Literate Language. (3 Credits)**

I. Formerly CDS 525. Prerequisites: CDS 360, CDS 365, and CDS 464 or departmental approval. Study of language disorders in children and principles for remediation in written language.

**CSD 541. School Services in Comm Dis. (3 Credits)**

II. Formerly CDS 541. Prerequisites: Overall 3.0 GPA and Admission to the CDS program, or departmental approval. Organization and management of speech-language therapy services in the schools. Lec/Lab.

**CSD 571W. Neural Bases of Communication. (3 Credits)**

A. Prerequisite: Admission to the CDS program or instructor approval and ENG 102 or ENG 105(B) or HON 102. A study of neuroanatomic and neurophysiologic bases of communication including developmental issues and neurologic deficits resulting in communication disorders. Credit will not be awarded for both CDS 571W and CDS 571.

**CSD 572. Speech & Hearing Science. (3 Credits)**

II. Formerly CDS 572. Study of the physics of sound, acoustic characteristics and processes, perceptual correlates, production of speech, and psychophysical processes of communication.

**CSD 720. Augment & Alternat Comm System. (3 Credits)**

I. An overview of various approaches to aided non-oral systems of communication. Various devices and symbol systems will be discussed.

**CSD 725. Literate Language. (3 Credits)**

I. Formerly CDS 725. Prerequisites: admission to CDS program or by departmental approval. Study of language disorders in children and principles for remediation in written language.

**CSD 741. School Services in Comm Dis. (3 Credits)**

I, II. Formerly CDS 741. Prerequisites: Overall 3.0 GPA and Admission to the CDS program, or departmental approval. Organization and management of speech-language therapy services in the schools. (Lec/Lab). Minimum of 27 field/clinical experience required.

**CSD 771. Neural Bases of Communication. (3 Credits)**

I. Prerequisite: admission to the CDS program or instructor approval. A study of neuroanatomic and neurophysiologic bases of communication including developmental issues and neurologic deficits resulting in communication disorders.

**CSD 772. Speech and Hearing Science. (3 Credits)**

II. Formerly CDS 772. Prerequisite: admission to the CDS program or instructor approval. Study of the physics of sound, acoustic characteristics and processes, perceptual correlates, production of speech, and psychophysical processes of communication. Software applications and instrumentation are also covered.

**CSD 830. Counseling in Speech-Lang Path. (3 Credits)**

A. Prerequisite: Admission to CD program or departmental approval. Overview of the therapeutic relationship between individuals with disabilities, their families, and professionals. Emphasis on applying empathetic listening, interviewing skills, and change process.

**CSD 861. Comm Dis in Atypical Pop.. (3 Credits)**

A. Prerequisite: admission to communication disorders and sciences program or by departmental permission. An overview of associated speech, language, or hearing problems commonly identified in atypical or special populations that may be encountered by the speech-language pathologist.

**CSD 863. Motor Speech Disorders. (3 Credits)**

II. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Study of the neurophysiology, assessment, and treatment of various motor speech disorders, including dysarthria and apraxia.

**CSD 867. Advanced Language Disorders. (3 Credits)**

A. Formerly CDS 867. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Advanced study of formal and informal assessment and treatment approaches in child language without consideration of etiology. Emphasis on collaboration within the classroom, language and narrative sampling analysis techniques and use of language within the natural context. Minimum of eight hours field/clinical experience required.

**CSD 870. Prof Issues in Comm Disorders. (3 Credits)**

A. Formerly CDS 870. Prerequisite: admission to communication disorders and sciences program or by departmental permission. Scope of practice, professional Code of Ethics, trends in service delivery, pertinent legislation, legal concerns, and other issues which impact the field of communication disorders will be examined.

**CSD 873. Adv. Artic. & Phono. Disorders. (3 Credits)**

I. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Study of the research and principles associated with symptomatology, etiology, diagnosis, and treatment of articulation and phonological disorders. Issues related to accent enhancement and modification, including assessment and intervention are explored. Minimum of three hours field/clinical experience required.

**CSD 874. Grad Pract: Speech-Lang Path. (3 Credits)**

A. Formerly CDS 874. Prerequisite: admission to communication disorders and sciences program or by departmental permission. Supervised clinical practice in speech-language pathology. Must be retaken for a total of nine hours for the MA degree. Minimum of 145 field/clinical experience hours required across three semesters.

**CSD 875. Adult Neuro. Lang. Disorders. (3 Credits)**

II. Formerly CDS 875. The study of the neurophysiological bases of aphasia classification systems, evaluation procedures, and treatment strategies.

**CSD 876. Advanced Voice Disorders. (3 Credits)**

I. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Study of the research and bases of laryngeal phonation deviation, including etiology, diagnosis, and treatment of functional and organic voice disorders; assessment and use of clinical techniques with a variety of voice disorders. Minimum of three field/clinical experience hours required.

**CSD 877. Advanced Fluency Disorders. (3 Credits)**

II. Formerly CDS 877. Prerequisites: admission to communication disorders and sciences program or by departmental permission. Critical study of research literature on etiology, theory, assessment and intervention strategies for preschool, school age, and adult fluency disorders. Minimum of two field/clinical experiences required.

**CSD 878. Diagnosis of Comm Disorders. (3 Credits)**

I. Prerequisite: admission to communication disorders and sciences program or by departmental permission. Diagnosis of language and speech disorders with emphasis on the use of dynamic assessment and comprehensive test batteries to describe the communication skills of children and adults. Profile analysis will be utilized to determine relative strength and weakness. Minimum of 10 hours field/clinical experiences required.

**CSD 879. Dysphagia. (3 Credits)**

II. Formerly CDS 879. Prerequisite: admission to communication disorders and sciences program or by departmental permission. An introduction to dysphagia, including the anatomy, physiology, and development of normal swallowing, and evaluation, etiologies, and treatment of dysphagia. Minimum of five field/clinical experience hours required.

**CSD 880. Research Methodology Comm Dis. (3 Credits)**

I. Formerly CDS 880. Prerequisites: admission to MAED communication disorders program; or by departmental permission. Corequisite: CDS 878. Critical examination of research methodology in communication disorders and sciences. Students acquire the fundamental motivation, knowledge, and skills for conducting clinical and basic science research and for reading and critically evaluating research literature.

**CSD 885. Cognitive Rehabilitation. (3 Credits)**

A. Formerly CDS 885. Prerequisites: admission to communication disorders and sciences program and CSD 571 or 771 or by departmental permission. Study of the neurophysiological, cognitive, neuropsychological, and social/emotional issues associated with traumatic brain injury in children and adults, including principles of linguistic/cognitive assessment and intervention.

**CSD 895. Special Topics in CD. (3 Credits)**

Formerly CDS 895. Prerequisite: Department approval. Advanced study of various concepts, methods and materials in communication disorders. Topics may vary. Material will be taught using a combination of lecture, discussion and experiential learning.

**CSD 897. School Experiences in CD. (6 Credits)**

I,II. Formerly CDS 897. Prerequisites: CDS874 (9 credit hours), completion of CD core courses and admission to student teaching. Supervised 12-week, full-time clinical practice with a variety of communication disorders in selected school settings for a minimum of 70 school days. For CDS graduate seeking certificate in speech-language pathology.

**CSD 898. Externship in Comm Disorders. (6 Credits)**

I. Formerly CDS 898. Prerequisites: CDS 874 (nine credit hours) and completion of graduate core course work in communication disorders and sciences. Supervised 12-week, full-time clinical practice with a variety of communication disorders in selected externship sites.

**CSD 899. Research Project/Thesis Option. (3 Credits)**

II. Formerly CDS 899. Prerequisite: CDS 880 or instructor approval. Completion of a research project related to a special population that may lead to a thesis and/or to a professional presentation and publishable paper. May be retaken to a maximum of 9 credit hours. Credit not awarded for both SED 899 and CDS 899.

## CTE Career & Technical Educ (CTE)

**CTE 164. Orientation to Career and Technical Education. (3 Credits)**

A. Instruction to new technical teachers in areas of principles of instruction, lesson planning, oral instruction, instructional media, demonstrations, evaluation and follow-up. Satisfactory-unsatisfactory grading.

**CTE 204. Related Sci Math & Tech: Occ I. (3 Credits)**

Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 205. Manipulative Skills: Occ I. (3 Credits)**

A. Offered only through technical competence examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 206. Related Knowledge: Occ I. (3 Credits)**

A. Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 261. Foundations of Career and Technical Education. (3 Credits)**

A. For in-service career and technical teachers. A study of the historical, philosophical, economical, sociological, and psychological foundations of career and technical education related to elementary, secondary, and post-secondary education. Credit will not be awarded for both CTE 261 and 262.

**CTE 262. Foundations of Career and Technical Education (Pre-Service). (3 Credits)**

A. Co-Requisite: EDF 310 (1)-Enrollment in a late term section is preferred. For pre-service career and technical teachers. A study of the historical, philosophical, economical, sociological, and psychological foundations of career and technical education related to elementary, secondary, and post-secondary education. Credit will not be awarded for both CTE 262 and 261.

**CTE 302. New Developments in Industry. (1-6 Credits)**

A. Concurrent enrollment in approved industry sponsored course. One hour credit for each week of enrollment (minimum of 20 class hours per week). Student required to present proof of completion and to develop a teaching unit on the new development. May be retaken provided the industry sponsored school is different. Graded on a satisfactory-unsatisfactory basis. Only in-service vocational education teachers may enroll.

**CTE 303. Career and Technical Education Staff Exchange. (2-9 Credits)**

A. Prerequisite: departmental approval. For in-service career and technical teachers enrolled in an approved staff exchange program designed to update technical skills and knowledge in an occupational setting. Assignments include verifying contact hours, site visit, narrative summary, and lesson development. First week of exchange is equal to two semester hours of credit with one additional hour of credit for each additional week. Satisfactory-unsatisfactory grading.

**CTE 304. Rel Sci Math & Tech in Occ. (3 Credits)**

A. Offered only through written examination; applicant must be eligible for vocational/technical teaching certificate.

**CTE 305. Manip Skills Occupation II. (3 Credits)**

A. Offered only through technical competence examination; applicant must be eligible for vocational/ technical teaching certificate.

**CTE 306. Related Knowledge: Occ II. (3 Credits)**

A. Offered only through written examinations; applicant must be eligible for vocational/technical teaching certificate.

**CTE 361. Course Materials in Career and Technical Education. (3 Credits)**

A. The preparation of instructional materials and instructional techniques, including the development and use of instructional media. The content will include the development of curricula at appropriate levels of education and appropriate laboratory activities.

**CTE 363. Evaluation in Career and Technical Education. (3 Credits)**

A. Methods of evaluation, preparation of measuring devices; methods of assessing technical competency; interpretation of standardized test results; statistical analysis of test data and the improvement of instruction.

**CTE 364. Methods in Career and Technical Education. (3 Credits)**

A. Presentation and application of instructional materials, methods, techniques, and devices relevant to teaching technical subjects.

**CTE 463. Practicum in Career and Technical Education. (4-12 Credits)**

A. Prerequisites: CTE 361, 363, 364. Observation, participation and supervised teaching in vocational and technical education. Includes experiences in lesson planning, classroom management, record keeping, development and use of instructional materials and directed teaching in approved centers. Students are graded on a satisfactory-unsatisfactory basis.

**CTE 800. Occupational Tng Materials. (3 Credits)**

A. Instructional materials designed for the adult learner to include: the preparation and application of individualized learning packets; the identification and application of instructional computer software; the development and application of video instructional programs; organization and application of instructional sequences.

**CTE 801. Occupational Training Methods. (3 Credits)**

A. An examination and development of training methods in occupational programs. Content will include an analysis of learning student and occupational needs, objectives, syllabi and lesson preparation and an overview of teaching methods.

**CTE 802. Occupational Trng Practicum. (6 Credits)**

A. A course designed to allow the trainer the opportunity to provide instruction to trainees in a real life setting.

**CTE 810. Orientation to Occupational Ed. (3 Credits)**

A. Instruction for new technical teachers in the areas of learning theory, instructional design and delivery, assessment, and classroom/laboratory management.

**CTE 861. Supervision in CTE. (3 Credits)**

A. Principles, objectives, methods, techniques, and practices of supervision; selection and organization of instructional materials; planning and equipping facilities; and professional and in-service education as they relate to supervision of technical, vocational, and general industrial education programs.

**CTE 862. Philosophy of the CTE. (3 Credits)**

II. Background, purpose, history, and philosophies of career and technical education; relationship to general education; effects of legislation for career and technical education.

**CTE 863. Org and Admin of CTE. (3 Credits)**

A. Organization of career and technical education on the local, state, and national level; federal legislation in technical education; federal state relationships; types of technical education programs and schools.

**CTE 864. Tech Edu Facility Planning. (3 Credits)**

A. Principles and practices underlying the planning and designing of laboratories for technical education. Students are required to design a multilaboratory facility which complies with existing safety and health laws.

**CTE 865. Evaluation in Technical Edu. (3 Credits)**

A. Strategies and methods for evaluation in technical education; identification and analysis of context, input, process, and outcomes; preparations, use and analysis of measuring instruments.

**CTE 888. Occupational Information. (3 Credits)**

Occupational information associated with careers to include: Types of work performed, qualifications and preparation required, the type of organizations where employment is available, work conditions, annual earnings, and employment outlook.

## DES Design (DES)

**DES 121. The Interior Environment. (3 Credits)**

A. An orientation to the profession: relationship to allied fields, contemporary developments, professional organizations, career options and philosophical approaches. Introduction to the principles and elements of design, programming, space planning, and decorative ornamentation. Open only to non-Interior Design majors.

**DES 122. Graphic Communication in ID. (3 Credits)**

I. Emphasis on graphic communication as part of the design process for interior designers. Integration of drawing skills employed in graphic representational methods used to analyze and describe interiors and conceptual ideas. Studio.

**DES 225. Interior Materials. (3 Credits)**

II. An investigation of the interior finish materials and component systems used in the design profession; their properties, performances, sustainability, application and installation techniques, as well as health and life safety issues and the appropriate trade sources.

**DES 226. Interior Design Studio II. (3 Credits)**

II. Prerequisite: DES 222. The study of the concepts and requirements in residential interior design. Programming, human factors, space planning, and study of functional and aesthetic aspects of residential environments will be explored. Studio meets for 3 hours twice a week.

**DES 250. Introduction to Graphic Design. (3 Credits)**

A. Prerequisites: ART 100 and 152. Introduction to the field of professional graphic design and its conceptual and technical makeup. Credit Will not be awarded for both DES 250 and DES 256.

**DES 256. Graphic Design for Non-Majors. (3 Credits)**

A. Pre-prerequisite: ENG 101 of Departmental Approval. An introduction to principles and processes of graphic design as a form of visual communication through type, image, color and form. Credit will not be awarded to students who have credit for DES 250 or 251.

**DES 319. Seminar in Interior Design. (1-3 Credits)**

A. A study of technical information relevant to interior design. Course content to be determined by student interest and needs. May be retaken to a maximum of six hours provided the content is different.

**DES 322. Interior Design Studio III. (3 Credits)**

I. Prerequisites: DES 226 and 330, Major GPA 3.0, and admission to the BFA program. Corequisites: DES 325. Research, analysis, programming, space planning, and human factors in residential and/or small-scale commercial design. Laptops and CAD software required. Studio meets for 3 hours twice a week.

**DES 325. Professional Practice in ID. (3 Credits)**

I. Corequisite: DES 322. An examination of the profession of interior design including history, procedures, documents, organizations, trade resources, certification, management, and ethics.

**DES 327. History of Interior Design I. (3 Credits)**

I. Prerequisite or Corequisite: ARH 390 and 391. The study of the history and theory of architecture, interiors, and decorative arts from the Renaissance through the nineteenth century. An examination of the significance and application to current design problems.

**DES 328. History of Interior Design II. (3 Credits)**

II. Prerequisite: DES 327. The study of the history and theory of architecture, interiors, and decorative arts from the nineteenth century through the present day. An examination of the significance and application to current design problems.

**DES 330. Lighting Design. (3 Credits)**

II. Prerequisite: CON 250. Introduction to lighting with an emphasis on theory, codes, and practical application/selection of lighting to enhance interior space. Integration of lighting issues that are essential and specific to the industry and profession of interior design.

**DES 349. Applied Learning in Art & Design. (0.5-8 Credits)**

A. Work in a professional environment related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours employment required for each semester hour credit. Students must have successfully completed 30 semester hours of course work and transfer students must have completed at least one semester of full-time course work at EKU with a GPA of 2.5.

**DES 349A. Cooperative Study: Art & Design. (0.5-8 Credits)**

A. Work in a professional environment related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours employment required for each semester hour credit. Students must have successfully completed 30 semester hours of course work and transfer students must have completed at least one semester of full-time course work at EKU with a GPA of 2.5.

**DES 350. Typography. (3 Credits)**

II. Prerequisite: DES 250, Departmental approval and 2.5 GPA in ART, ARH, and DES courses. Corequisite: DES 351. Introduction to the use of letterforms in graphic design and visual culture. Students will research typographic terms and history and will develop an understanding of visual hierarchy in graphic design.

**DES 351. Sophomore Studio. (3 Credits)**

A. Prerequisite: DES 250, departmental approval and 2.5 GPA in ART, ARH, and DES courses. Corequisite: DES 350. An exploration of visual communication issues and applications in graphic design. The relationship of visual form to meaning, type and image relationships will be examined.

**DES 352. Image Making. (3 Credits)**

A. Prerequisites: DES 353 and 354, Major GPA 2.5 and admission to the BFA program. Corequisite: DES 451. An integration of various techniques and materials, both traditional and digital, to promote understanding of the importance of imagery within the field of graphic design.

**DES 353. Production for Graphic Design. (3 Credits)**

A. Prerequisites: DES 350, 351, Major GPA 2.5, and admission to the BFA program. Corequisite: DES 354. Exploration of materials, surface graphics, marketing, and production problems as the refinement and integration of many design principles.

**DES 354. Typography II. (3 Credits)**

A. Prerequisites: DES 350, 351, Major GPA 2.5, and admission to the BFA program. Corequisite: DES 453. Advanced study of typography as an expressive medium. Special attention to multi-page document work, advanced issues of typography in scale as well as its usage in new media and alternative situations.

**DES 421. Supervised Field Exp in ID. (6 Credits)**

SUMMER ONLY. Prerequisites: open to Interior Design BFA students only, DES 325 and 326, minimum 2.25 overall GPA, and 3.0 major GPA. Observation of an interior design firm's operation, with performance in assigned tasks. Students are placed with an architecture or interior design firm for a continuous full time ten-week experience.

**DES 422. Interior Design Studio V. (3 Credits)**

I. Prerequisites: DES 326, 328, Major GPA 3.0 and admission to the BFA program. Advanced studio experience in interior design with emphasis on one or more of the following: residential, exhibit/retail, hospitality, office, historic preservation and adaptiveuse. Studio meets for 3 hours twice a week.

**DES 450. Professional Practices in Graphic. (3 Credits)**

I, II. Prerequisites: DES 352, 451, Major GPA 2.5, and admission to the BFA program. Corequisite: DES 452. This course examines the professional standards and practices specific to the field of graphic design.

**DES 451. New Media. (3 Credits)**

A. Prerequisites: DES 353, 354 Major GPA 2.5, and admission to the BFA program. Corequisite: DES 352. Introduction to the artistic and technical issues of multimedia through website application.

**DES 452. New Media II. (3 Credits)**

A. Prerequisites: DES 352 and 451, Major GPA 2.5, and admission to the BFA program. Corequisite: DES 450. Advanced communication through multimedia applications.

**DES 453. Senior Workshop in Design. (3 Credits)**

I, II. Prerequisite: DES 450, 452 Major GPA 2.5 and admission to the BFA program. Exploration of current issues, technical procedures, and design products.

**DES 454. BFA Graphic Design. (3 Credits)**

A. Prerequisites: DES 453, Major GPA 2.75. Corequisite: ART 499. Final phases of the student designer's transition into the profession. Additional guidance towards portfolio and senior thesis development.

**DES 463. Problems in Design:\_\_\_\_. (3 Credits)**

I, II. Prerequisites: DES 354 and 451 or Departmental Approval. Individualized instruction in design builds on creative skills and techniques learned in prior design courses. This course stresses the development of a specialized study of techniques and concepts for a design portfolio. May be retaken with different topics to earn a maximum of nine hours.

**DES 521. Analytical Furniture Design. (3 Credits)**

A. Analysis of furniture design in terms of integration of function and styles with structure; coordination of furniture style with interior architectural expression.

**DES 721. Analytical Furniture Design. (3 Credits)**

A. Analysis of furniture design in terms of integration of function and styles with structure; coordination of furniture style with interior architectural expression.

**DES 850. Graphic Design for Learning. (3 Credits)**

(3) I, II. Introduction to the elements and principles of design, methods, tools and software used in the field of graphic design.

**DES 851. User Experience Design. (3 Credits)**

(3) I, II. Introduction to the processes and methods of User Experience Design, including user research, contextual design, design thinking, ideation, and prototyping of a service or product.

## DSC Data Science & Statistics (DSC)

**DSC 390. Sports Analytics. (3 Credits)**

A. Prerequisite: STA 340. Sports-related research questions; acquisition of appropriate data; data wrangling; data cleansing; analysis of large, complex data sets; use of statistical software to apply appropriate statistical tools; discovering insight; and clear communication of results.

**DSC 580. R and Introductory Data Mining. (3 Credits)**

A. Cross-listed as STA 580. Prerequisite: STA 270 with a minimum grade of "C" or STA 215 with a minimum grade of "B" and CSC 170 or 174 or 189 or 190. Data set manipulation, application of statistical techniques in R, statistical programming, and data mining skills. Credit will not be awarded to students who have credit for STA 580.

**DSC 780. R and Introductory Data Mining. (3 Credits)**

A. Cross-listed as STA 780. Data set manipulation, application of statistical techniques in R, statistical programming, and data mining skills. It is strongly recommended that students have completed a course in applied statistics and an introductory course in computer programming. Credit will not be awarded to students who have credit for STA 780.

## EAD Educational Administration (EAD)

**EAD 801. Intro to Ed Adm & Ld Rsch. (3 Credits)**

A. This course explores modern administrative theories, practices, and techniques in school leadership and administrative responsibilities. Emphasis on research based practices which create an organizational climate supportive of excellence in teaching, learning, and school improvement. Minimum of 5 hours field related experiences.

**EAD 803. Leadership in Higher Education. (3 Credits)**

Candidates will examine various rural leadership activities and theories, then use them to evaluate the leadership of their own organization. They will learn about the process of change and use this theory to develop a plan for a needed change in their organization. They will identify their own strengths and weaknesses and use those data to develop a leadership rubric.

**EAD 807. Ed Admin & Supervision:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: advisor/ departmental approval. Workshops, special topics, or seminars. May be retaken under different subtitles.

**EAD 808. Admin of Pupil Pers Services. (3 Credits)**

A. Prerequisite: departmental approval. Administrative problems relating to child accounting. Major areas emphasized will be attendance reports and records, school census, and social and economic factors influencing school attendance.

**EAD 816. Data Analytics in Higher Ed. (3 Credits)**

Designed to enable candidates to apply various data-analytic strategies and software tools to address important issues and topics within a higher-education framework, EAD 816 is intended specifically for candidates enrolled in the M.A. in Student Personnel Services in Higher Education program within the College of Education. The course will focus on using data analytics to inform decision-making within the context of one's administrative role in a college or university. Credit will not be awarded to students who have credit for EPY 816.

**EAD 819. Sch Lead & Inst. Super. (3 Credits)**

A. Leadership related to the evaluation of instructional programs, teacher effectiveness, and improvement of student learning. Includes building collaborative cultures, informed decision-making, communication skills, and conflict resolution related to curriculum, instruction, & assessment. Minimum of 10 hours field experience required.

**EAD 821. Pract in Admin & Supervision. (3 Credits)**

A. Prerequisite: professional certificate in administration and supervision. Field experiences with emphasis on organization and administration of schools. Seminars/workshops will be attended to analyze problems and experiences of the field activities.

**EAD 827. Finance and Support Services. (3 Credits)**

I, II. The study of assessment, improvement, and application of computer technology and effective leadership practices in education. The focus of the course will be upon the use of technology and knowledge of best practices for educational improvements.

**EAD 828. School Law and Ethics. (3 Credits)**

I, II. Legal principles and interpretations of constitutional and statutory laws. Judicial decisions and school policies based on those are emphasized. Special attention is given to the sitebased decision making process at the school level.

**EAD 829. Comm Relations & Ed Advocacy. (3 Credits)**

A. Emphasizes communication skills, understanding communities, as well as theories and techniques of school-community relations for educational leaders through critical reflection. Provisions are made for the development of guidelines, techniques and practices which facilitate collaborative relationships. Minimum of 10 hours field experience required.

**EAD 839. The School Superintendency. (3 Credits)**

A. The role of the school district superintendent is explored and analyzed with reference to job responsibilities and organizational structure. Knowledge, skills, and dispositions necessary to serve successfully in the position are also examined.

**EAD 840. Leadership for Safe Schools. (3 Credits)**

A. School safety course designed to develop skills and information to analyze school safety data. Students will evaluate and develop school procedures based on data and research.

**EAD 844. Stdnt Persnl Serv in Higher Ed. (3 Credits)**

I. Formerly COU 844. Study of student personnel services; emphasis upon relationship of these services to the total college program, research, and organization. Credit will not be awarded for both EAD 844 and COU 844.

**EAD 845. Intern Student Person Service. (3 Credits)**

(3) II. Supervised experience for student personal trainees. Opportunity provided to share responsibilities for all phases of student personnel services. Must be taken twice, once in the first 9 hours and once in the last 9 hours of the program.

**EAD 849. School Systems Administration. (3 Credits)**

A. Examination of school system operations including financial management, the administration of auxiliary services, human resources management, the management of federal and state programs, facilities planning and management, and the management of curriculum and instructional support.

**EAD 851. Assessment for Learning. (3 Credits)**

A. Candidates will develop skills to analyze data, including common assessments, to improve school learning environment and students achievement. Finally, candidates will develop an action research plan.

**EAD 852. Human Resource Leadership. (3 Credits)**

A. Candidates will evaluate school processes for selecting staff inducting staff, supervising staff, and providing staff professional development. Candidates will recommend ways to develop school human resources.

**EAD 853. Conditions of Learning. (3 Credits)**

A. Candidates will use data from surveys and interviews to evaluate a school's learning environment. Candidates will develop recommendations for improvement.

**EAD 854. Fair Learning Changes. (3 Credits)**

A. Candidates will complete an action research plan, working with school and community leaders to improve student learning or working conditions. Candidates will lead a team in developing, implementing, and evaluating the plan.

**EAD 856. Learning for At-Risk Students. (3 Credits)**

A. The course will provide knowledge and strategies for aspiring school leaders to support staff, programs, and initiatives to reduce the impact of risk factors on student learning.

**EAD 857. Principal Internship I. (3-6 Credits)**

(3-6) A. Prerequisite: EAD 801 and 851. Students engage in school administration work in school placement. In-field work is augmented by online modules to support candidates. The course is structured to provide opportunities to apply course content knowledge to real issues of administrative practice and to the development and refinement of leadership skills and competencies.

**EAD 858. Principal Internship II. (3 Credits)**

A. Prerequisite: departmental approval and EAD857. Candidates are principles, or have an approved plan, under the supervision of a mentor(s) to learn the principal role. In either case, candidates participate in seminars based on principal duties and responsibilities.

**EAD 859. Instruc Plnng for Stu Lrng. (3 Credits)**

(3) A. An examination of planning processes used by leaders to direct and focus educational change and improvement in student learning.

**EAD 860. Stdnt Dvlpmnt Theory in Hgh Ed. (3 Credits)**

I, II. This is a theoretical/development course in the introduction to student affairs profession. Credit will not be awarded for both EAD 860 and COU 860.

**EAD 861. Overview of Legal Issues in HE. (3 Credits)**

(3) I, II. Overview of the legal and ethical issues in the student affairs profession. Credit will not be awarded for both EAD 861 and COU 861.

**EAD 862. Policy & Finance in Higher Ed. (3 Credits)**

I, II. Analysis of governance, policymaking, and financial issues in the student affairs profession. Credit will not be awarded for both EAD 862 and COU 862.

**EAD 863. Working with College Students. (3 Credits)**

(3) A. Provides candidates with appropriate communication skills and methods to effectively facilitate the growth and development of college students in the context of college or university student personnel services.

**EAD 879. Systems for Change. (3 Credits)**

Prerequisite: departmental approval. Co-requisite: GRD 878r. Analysis of the school district administrator's role with emphasis on understanding district-wide complex systems change and how change impacts student learning. Minimum of 25 clinical hours required.

**EAD 897. Independent Study. (1-3 Credits)**

A. Designed for advanced graduate students who desire to investigate special problems relating to educational administration and/or supervision. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## ECO Economics (ECO)

**ECO 110. The Individual and the Economy. (3 Credits)**

A. Prerequisite: MAT 095 or ACT math score of 18 or SAT math score of 490 or higher. An examination of the nature and role of individual decision making in the economy; the economic environment and the individual's decisions; public policies and the decisions of the individual. Credit will not be awarded to students who have credit for ECO 230 or 231.

**ECO 120. Economic Reasoning and Issues. (3 Credits)**

I, II. Prerequisite: completion of all developmental math requirements. An excellent preparatory course for ECO 230 or 231, dealing with basic concepts of a market-based economy, including scarcity, opportunity cost, comparative advantage, demand and supply, marginal analysis, market failures, economic growth, unemployment, inflation, and international trade. Gen. Ed. E-5B.

**ECO 130. Contemporary Economic Problems. (3 Credits)**

I, II. Prerequisite: completion of developmental math requirements. An excellent preparatory course for ECO 230 or 231, dealing with such contemporary economic problems as unemployment, inflation, national debt, energy, health, pollution, education, crime, poverty, discrimination, and protectionism. Students who have completed ECO 230 or 231 with a grade of C or better, or are currently enrolled in ECO 230 or 231, will not receive credit for ECO 130. Gen. Ed. E-5B.

**ECO 220. Statistical Methods for Economics I. (3 Credits)**

A. Prerequisite: MAT 112 or 114. Business and economic applications of frequency distributions, measures of location, variation; probability, sampling, estimation, test of hypothesis, linear regression, index numbers, and time series analysis. Credit will not be awarded to students who have credit for CRJ 400 or EPY 842 or HEA 450 or PSY 310 or QMB 200 or STA 208 or STA 215 or STA 270.

**ECO 230. Fundamentals of Microeconomics. (3 Credits)**

(3) I, II. Prerequisite: Completion of developmental requirements. For students with a composite ACT score of less than 21, completion of ECO 120 or 130 is strongly recommended prior to taking this course. Microeconomic principles, including the study of opportunity cost, consumer and producer choices, market demand and supply, pricing and resource allocation, comparative advantage and international trade. Gen. Ed. VB, VC, or VII (SBS).

**ECO 231. Fundamentals of Macroeconomics. (3 Credits)**

(3) I, II. Prerequisite: completion of developmental requirements. For students with a composite ACT score of less than 21, completion of ECO 120 or 130 is strongly recommended prior to taking this course. Macroeconomic principles, including the study of measures of national economic performance, determinants of aggregate production, employment and prices, monetary and fiscal policy, balance of payments, economic growth and development. Gen. Ed. VB, VC, or VII (SBS).

**ECO 300. Managerial Economics. (3 Credits)**

A. Prerequisite: ECO 230. Economic concepts that are directly applicable to business decision making including cost and production, profits, demand and pricing, capital budgeting and investment, and forecasting.

**ECO 314. Sports Economics. (3 Credits)**

A. Prerequisite: ECO 230 or departmental approval. Economics applied to sports. Topics include collusive versus competitive behavior, pricing strategies, government subsidies of sports ventures and venues and sports labor markets.

**ECO 315. Economic Policy Analysis. (3 Credits)**

A. Prerequisite: ECO 230. Foundations and rationale for economic policy, including market failure and income inequality. Objectives, evaluation and analysis of selected policies in areas such as international trade, environment, education, health care, welfare, social security, and economic development.

**ECO 320. Research Methods in Economics. (3 Credits)**

I. Prerequisite: ECO 220, STA 270 or QMB 200; ECO 230 and 231; or departmental approval. Combining economic theory and statistical models in empirical work in economics; the linear statistical model and its extensions, application to production and cost, demand, and economic growth, forecasting, and policy analysis; classical time series analysis.

**ECO 324. Money and Banking. (3 Credits)**

A. Prerequisite: ECO 231. Functions of money, monetary systems, history of banking, functions of the commercial bank, bank assets and reserves, loans and discounts, bank supervision, the Federal Reserve System, central banking policies, monetary and fiscal policies.

**ECO 330W. Intermediate Microeconomics. (3 Credits)**

I. Prerequisite: ECO 230 or departmental approval; ENG 102 or ENG 105 (B) or HON 102. A writing-intensive intermediate course in economics. Analysis of consumer and producer behavior, market equilibrium, pricing and resource allocation under alternative market structures, risk aversion and information. Credit will not be awarded to students who have credit for ECO 330.

**ECO 331. Intermediate Macroeconomics. (3 Credits)**

II. Prerequisite: ECO 231. Analysis of aggregate economic activity; consumption, investment, employment, output, money and prices, exports and imports; stabilization policy.

**ECO 333. Human Resource Economics. (3 Credits)**

A. Prerequisite: ECO 230. Economics of human resource markets, including the demand for and supply of labor, human capital formation, household production, unions, discrimination, unemployment, and associated public policy issues.

**ECO 340. Environmental Economics. (3 Credits)**

A. Cross listed as APP 340 and ENV 340. Prerequisite: ECO 230. Applications of basic economic analysis to a study of the environment and environmental problems. Major topics include benefit-cost analysis for environmental decision making, the potential for market-based solutions to environmental problems, and the role and development of environmental policy. Credit will only be awarded for ECO 340 or APP 340 or ENV 340.

**ECO 345. Topics in Economics:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: to be announced. Selected topics for study. Variable topics across semesters. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**ECO 349. Applied Learning in Economics. (0.5-3 Credits)**

A. Prerequisite: minimum GPA 2.25. Cocurricular work experience under faculty and field supervisors. Training plan required. May be retaken to a maximum of six hours. Minimum 80 hours work required for each academic credit hour. May not count towards major.

**ECO 360. Industrial Organization. (3 Credits)**

A. Prerequisite: ECO 230 or equivalent. Studies the strategic interactions of firms in imperfectly competitive markets, market performance, and public policy.

**ECO 365. Public Finance. (3 Credits)**

A. Prerequisite: ECO 230. Economics of the public sector, including the scope of and rationale for government, public goods and externalities, voting schemes and public choice, taxes and subsidies, and transfer payments.

**ECO 370. Health Care Economics. (3 Credits)**

II. Prerequisite: ECO 230 or departmental approval. Introduction to health economics, including the study of the demand for and production of medical care, health care planning, regulation, finance and evaluation.

**ECO 394. International Economics. (3 Credits)**

A. Prerequisites: ECO 230 or 231 and Junior standing. An introduction to international trade and investment theory emphasizing international business, international trade theory, trade and investment patterns, payments system, balance of payments, international companies, and international issues.

**ECO 395. Economics of Developing Countries. (3 Credits)**

A. Prerequisite: ECO 230 or 231 and Junior standing. Economics of development including: theories of growth, income distribution, investment in human capital, alleviation of poverty, strategies for growth; study of selected countries. Credit will not be awarded for both ECO 395 and 395W.

**ECO 395W. Economics of Developing Countries. (3 Credits)**

(3) A. Prerequisites: ECO 230 or 231 and junior standing; ENG 102 or ENG 105(B) or HON 102. Economics of development including: theories of growth, income distribution, investment in human capital, alleviation of poverty, strategies for growth; study of selected countries. Credit will not be awarded for both ECO 395W and 395.

**ECO 410. History of Economic. (3 Credits)**

A. Prerequisites: three hours of ECO. The history of economic ideas from Adam Smith through J. M. Keynes.

**ECO 420. Research Methods II. (3 Credits)**

II. Prerequisite: ECO 320 or departmental approval. Problems of heteroscedasticity, serial correlation, and endogeneity in the linear statistical model; nonlinear models and modern time series analysis. Formulation and execution of empirical research project.

**ECO 430. Mathematical Economics. (3 Credits)**

A. Prerequisites: three hours of ECO and MAT 124, 211, or 261. Mathematical formulations of economic theories. Models of the consumer, the firm, markets, economic growth, and business cycles.

**ECO 492. Business Cycles. (3 Credits)**

A. Prerequisite: ECO 231. Growth, instability, inflation, business cycle theories, spending and saving decisions, government expenditures and tax patterns, prices, output, and employment, historical cyclical patterns, economic forecasting.

**ECO 560. Special Problems in Economics. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. Independent work, special workshop, special topics or seminar. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ECO 590. Regional Economics. (3 Credits)**

A. Prerequisite: three hours of ECO. Analysis of patterns of regional growth and development. Use of economic models for regional forecasting and policy evaluation; the problems of marginal areas in developed economies.

**ECO 760. Special Problems in Economics. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. Independent work, special workshop, special topics, or seminar. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ECO 780. Natural Resource & Envir Econo. (3 Credits)**

Economic tools used in the allocation of natural resources, including policy proposal criteria, resource allocation, conservation, the state's role, benefit-cost analysis, and environmental impact assessment.

**ECO 790. Regional Economics. (3 Credits)**

A. Prerequisite: three hours economics. Analysis of patterns of regional growth and development. Use of economic models for regional forecasting and policy evaluation; the problems of marginal areas in developed economies.

**ECO 807. Economics \_\_\_\_\_ (1-3 Credits)**

A. Prerequisite: advisor/departmental approval. Independent work, workshops, special topics, or seminars. May be retaken under different subtitles to a cumulative maximum of nine hours.

**ECO 810. Economics for Teachers. (3 Credits)**

A. A course designed to enhance teachers' understanding of economics. Study of microeconomic and macroeconomic principles; application to policy issues; introduction to economic literacy of students in schools.

**ECO 822. Survey of Economics. (3 Credits)**

A comprehensive study of basic micro and macro economic theory designed to prepare the student for graduate study in business administration.

**ECO 848. Stat Methods Business & Econom. (3 Credits)**

A. Prerequisite: ECO 220 or equivalent or consent of instructor. Application of statistical analysis in business and economics; probability, sampling distributions, estimation and hypothesis testing, regression, analysis of variance, chi-square analysis, and time series. Credit will not be awarded to students who have credit for QMB 850.

**ECO 850. Managerial Economics. (3 Credits)**

II. Prerequisites: ECO 230 and 231 or ECO 822. Economic concepts directly relevant to decision making, including demand, forecasting, cost analysis, production theory, and pricing under competitive and imperfect market conditions.

**ECO 854. Adv Statistical Applications. (3 Credits)**

A. Prerequisite: ECO 848 or equivalent. Develops business and economic applications emphasizing the general linear model. Includes statistical inference, regression models, non-parametrics, and analysis of variance. Emphasis upon description and prediction of business and economic phenomena. Credit will not be awarded to students who have credit for EPY 843 or QMB 300 or STA 500 or STA 700 or ECO 320 or PSY 301 or STA 320.

**ECO 855. Contemporary Economic Issues:\_. (1-6 Credits)**

A. Prerequisite: ECO 850 or equivalent. Application of economic analysis to such issues as international trade, health care, education, environmental policy, monetary and fiscal policy, and income distribution. May be retaken to a maximum of six hours if topics are different.

**ECO 860. Independent Study in Economics. (1-6 Credits)**

A. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken under different subtopics to a cumulative maximum of six hours.

## EDC Educational Core (EDC)

**EDC 106. Culturally Responsive Perspectives. (3 Credits)**

I, II. Students will reflect on how concepts of culture, cultural competency and responsiveness, inclusion, and equity intersect in social and professional settings. By better understanding marginalized populations, students can provide culturally responsive services in diverse communities. Gen. Ed. E-6.

**EDC 300. Differentiation in Inclusive Classrooms. (3 Credits)**

I, II. Prerequisites: Admission to professional education. Co-requisites: EMS 300W or EMS 300, CED 300. Differentiating instruction for diverse learners in all education settings. Collaboration and planning to address the needs of diverse learners including students with disabilities, English Language Learners, Gifted/Talented, SES. Credit will not be awarded to students who have credit for SED 402. (Clinical experiences are required: if students do not make the requisite passing grade of C in the content course, they must repeat that course, and also complete an additional corequisite clinical experience).

**EDC 314. Engineering in Classroom Context. (3 Credits)**

1, 11. Cross-listed as TEC 314. Prerequisites: Sophomore standing or above. Introduction of engineering and technology to promote problem solving skills, tool use, materials processing, design capabilities, and product completion. Applications for K-8 classrooms are emphasized. Credit will not be awarded to students who have credit for TEC 314.

**EDC 810. P12 ED/Tech: Critical Issues. (3 Credits)**

Online. Introduction to research about integration of technology into P-12 school systems. Students will also investigate current and future technology advancements in hardware, software, networking, support, and training. Basic issues relating to legal and ethical issues relative to technology will also be introduced.

**EDC 811. P12 Ed/Tech: multimedia Design. (3 Credits)**

Online. Corequisite: EDC 810. Introduction to multimedia-authoring approaches and research in electronic formats. Students will create web-based instructional courseware. All students will produce and publish a classroom, school, or other education related website.

**EDC 812. P12 ED/Tech: Online Learning. (3 Credits)**

Online. Corequisite: EDC 810. Understand and apply principles and best practices in online learning as a medium for adding online activities in the P-12 classrooms. Students will evaluate open source software and develop an online course or unit of study using a selected open source system.

**EDC 813. P12 ED/Tech: Capstone. (3 Credits)**

Online. Prerequisites: EDC 810, 811, and 812. Students will synthesize and integrate theories and practices learned from the three previous courses in the program and apply them toward the development of a culminating educational technology project appropriate to the P-12 environment.

## EDD Ed Leadership & Counsel Ed (EDD)

**EDD 901. Orientation to Doc Studies. (3 Credits)**

A. A required orientation course that introduces students to programs, faculty, resources, and expectations for individual and group scholarship.

**EDD 902. Intro to Quant Res Methods. (3 Credits)**

A. This course is an introduction to the use of quantitative research methods in education. Topics include measures of central tendency, measures of variability, correlation, regression, testing statistical hypotheses, and research design.

**EDD 903. Qualitative Research. (3 Credits)**

A. Orientation to philosophical foundations, major theoretical approaches, methodology, and analysis in qualitative research.

**EDD 904. App Res: Eval, Sur, & Gr Writ. (3 Credits)**

A. Applications of research methods to include elements of program evaluation, survey design, and grant writing approaches. The course emphasizes the development of specific program planning and evaluation concepts, research design, survey development and grant writing as related to the program planning process.

**EDD 905. Analysis of Research Lit. (3 Credits)**

A. A core doctoral course designed to instruct students on writing wellstructured, critical literature reviews. The course covers topic selection, searching and managing literature data, notetaking techniques, assessing and synthesizing extant literature, and writing, editing, and proofreading strategies.

**EDD 906. Dissertation Practicum. (3 Credits)**

A. Prerequisite: Admission to the doctoral program in educational leadership or counselor education, EDD 901,902,903, and 904; or department approval. Intended for advanced educational leadership and counselor education students, this course focuses on applying research methods and critiquing relevant literature for designing the doctoral dissertation proposal.

**EDD 907. Intermed Quant Research Meth. (3 Credits)**

A. Formerly EDL 812. Prerequisite: EDD 902 or departmental approval. Examination of intermediate quantitative research methods including multiple regression, analysis of variance and covariance, discriminant analysis, and factor analysis. This course emphasizes practice and application of statistical analysis for evidence-based decisions and research. Credit will not be awarded to students who have credit for EDL 812 or 952.

**EDD 908. Adv Qualitative Research Meth. (3 Credits)**

(3) A. Prerequisite: EDD 903 or departmental approval. Examination of intermediate qualitative research methods. Emphasis is on advancing techniques for data collection, data analyses, and write up with emphasis on practice and application. Includes practice with Qualitative Data Analysis (QDA) software. Credit will not be awarded for both EDL 953 and EDD 908. Part III.

**EDD 999. Dissertation. (1-3 Credits)**

A. Formerly EDL 999. Prerequisite: Departmental approval. Completion and defense of a research dissertation appropriate to concentration. Course is repeatable for a maximum of 24 hours. A minimum of 12 hours is required for degree completion.

## EDF Educational Foundations (EDF)

**EDF 103. Introduction to Education. (1 Credit)**

I, II. Corequisite: CED 100. An exploration of the professional qualities and expectations of a teacher/educator. Roles, responsibilities and challenges in the field of education will be reviewed. For pre-education and noneducation majors.

**EDF 200. Schools and Our Society. (3 Credits)**

I, II. Prerequisite: Score accepted by the Kentucky Education Professional Standards Board on one of the approved tests: ACT, PPST, SAT, GRE. An introduction to social and cultural influences on schools, the purposes of schooling, the governance, financing, and administration of schools, and the role of the individual as an educator. 15 hours of field experience required.

**EDF 203. Educational Foundations. (3 Credits)**

I, II. Co-requisite: CED 100. An introduction to social and cultural influences on schools, the purposes of schooling, the governance, financing, and administration of schools, and the role of the individual as an educator. Background check College approved procedure must be ordered and paid for by the first day of class.

**EDF 204. Emerging Instructional Technologies. (2 Credits)**

(2) I,II. technology applications to education, training, and instruction within educational and human services setting. Students examine, develop, and/or evaluate emerging instructional technologies. For individuals interested in exploring technological applications in teaching and learning.

**EDF 205. Creative Learning and Teaching. (3 Credits)**

(3) II. An Introduction to the basic theories and principles of creativity as applied to development of your own creative thinking and how teachers, professionals and parents can encourage creativity in others.

**EDF 219. Human Development and Learning. (3 Credits)**

(2) I, II. Corequisite: CED 200. The Study of theories and principles of human development and learning as applied to the classroom. Credit will not be awarded to students who have credit for EDF 320, EDF 219W or EDF 319.

**EDF 219W. Human Development and Learning. (3 Credits)**

(2) I, II. Prerequisite: ENG 101 or 101R and 102, or HON 105 with a minimum grade of "C", or ENG 105 with a minimum grade of "B".  
Corequisite: CED 200. The study of theories and principles of human development and learning as applied to the classroom. Credit will not be awarded to students who have credit for EDF 320, EDF 219 or EDF 319.

**EDF 310. Transition to Education. (1-3 Credits)**

I, II. Prerequisite: Completion of Background check prior to the first day of the semester. Candidates will follow the College of Education Licensure and Certification approved procedure. Corequisite: CED 150. EDF 310 is required of candidates who have an equivalent transfer course(s) for [EDF 203, CDF 203] or [EDF 219, CDF 235].

**EDF 320. Human Development and Learning for Vocational Education. (3 Credits)**

I, II. The study of theories and principles of human development and learning as applied within vocational-industrial technical education classrooms. Credit not awarded to students with credit for EDF 319.

**EDF 330. U.S. South and Black Education. (3 Credits)**

A. Cross listed as AFA 330. This course introduces the major themes of Black populations pursuing educational opportunities in Southern States. Students will acquire knowledge about historical events, people and policies shaping the evolution of Blacks in education. Credit will not be awarded to students who have credit for AFA 330. Gen. Ed. VIII.

**EDF 413. Assessment in Education. (2-3 Credits)**

I, II. Prerequisite: MAT 105 (or higher) or STA 215 (or higher)(C) admission to professional education. Corequisite: EMS 490 or SED 390 (for DHH/LBD education majors only); and CED 400. Principles and procedures in assessing and evaluating pupil growth in skills, attitudes, aptitudes, and understandings. Assessment construction, analysis, item analysis. Marking systems, and authentic assessment systems will be addressed. Course embedded and school-based clinical practice required: if students do not make the requisite passing grade of C in the content course, they must repeat that course and also complete an additional clinical experience.

**EDF 804. Teaching and Leading with Tech. (2 Credits)**

(2) I, II. Co-requisite: ETL 806. The applications of technology for teaching and learning in educational settings, including uses for promoting interactive engagement, reflection and inquiry, diversity and equity, and leadership.

**EDF 807. Educational Studies:\_\_\_\_\_ (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Independent work, workshop, special topics, or seminars. May be retaken under different subtitles.

**EDF 837. Comparative Education. (3 Credits)**

A. Study of the development of educational thought and practice in selected nations of Europe, Asia, Africa, and South America. Emphasis will be placed on intellectual, historical, and sociological factors.

**EDF 839. Human Development & Learning. (3 Credits)**

The study of various theories of human behavior, development, and learning. Emphasis is placed on current research and theories with special emphasis on different ethnic, cultural and social backgrounds and physical and mental exceptionality of children and youth.

**EDF 855. Found of Multicultural Educati. (3 Credits)**

A. Examination of the education implications of cultural pluralism in America and selected societies of the world.

## EDL ED Leadership & Policy Stu (EDL)

**EDL 811. Intro Qualitative Methods. (3 Credits)**

A. Introduction to qualitative data collection and analysis in educational research. Review of origins, theory, and design of method; issues of validity, reliability, and human subject ethics.

**EDL 820. Cultural Leadership. (3 Credits)**

A. Investigation of cultural and social influences on the development of leadership in educational settings. Emphasis is on place and the application of sociocultural concepts to leadership issues and problems in educational settings.

**EDL 822. Social Political Leadership. (3 Credits)**

A. Examination of social and political dimensions of the process and content of leadership from theoretical and practical perspectives. Emphasis is on the application of relevant theoretical constructs to leadership issues and problems in educational settings.

**EDL 823. Assessment for Ed Leaders. (3 Credits)**

A. Study and application of appropriate and effective uses of different types of assessment data in a variety of educational settings to guide leadership practice.

**EDL 826. Leadership for Change. (3 Credits)**

A. Prerequisite: EDL 810 or permission of instructor. The emphasis is on research design, the limitations of research design, and the analysis of data. Techniques include ANOVA, regression, and ANCOVA.

**EDL 830. College Teaching. (3 Credits)**

A. An introduction to teaching on the college level focusing on best practices in pedagogy and research.

**EDL 899. Thesis for Specialists in Educ. (3 Credits)**

A. Prerequisite: departmental approval. Completion and defense of a research thesis in educational leadership, policy studies, or a related field. May be retaken to a maximum of six hours.

**EDL 900. Ed.D. Field Experience. (3 Credits)**

A. Prerequisite: departmental approval. Minimum of eighty hours of field experiences relevant to the student's planned program of study, supported by skill development through symposia, tutorials, lectures, and assessments. May be retaken to maximum of six hours.

**EDL 925. Organizational Bhvr & Justice. (3 Credits)**

(3). A. Examines the dynamacs of educational organizations including the complex patterns of human dynamics and provides a rationale for principles of situational leadership. Facilitates understanding of organizations, their management, and implications for perceptions of fairness.

**EDL 930. Seminar on Rural Schools & Com. (3 Credits)**

A. Consideration of the relationship between schools and rural communities, including issues related to democratic localism, state and nationaleducation agendas, and economic development in rural areas.

**EDL 940. Social Political Leadership. (3 Credits)**

Examination of social and political dimensions of the process and content of leadership from theoretical and practical perspectives, emphasizing and examining the shape of education in the United States, and the effect of these forces. Formerly EDL 822. Credit will not be awarded to students who have credit for EDL 822.

**EDL 941. Exam Div, Race, & Cult Equity. (3 Credits)**

(3) A. Examines education as a social and cultural phenomenon. Students gain skills to critically analyze educational practice, promote inclusion in schools, lead for cultural equity within organizations, and work with varied communities to serve marginalized students.

**EDL 942. Leadership Theory and Practice. (3 Credits)**

A. Analysis of skills required for successful leadership in education organizations. Students evaluate established theories, compare management from leadership, and examine ethical decision-making in complex educational dilemmas. Aligning leadership to individual strengths, values will be considered., Formerly EDL 821. Credit will not be awarded to students who have credit for EDL 821.

**EDL 943. Capacity Bldg, Org Improv & In. (3 Credits)**

Focuses on the leader's role in changing educational organizations emphasizing the nature, characteristics, responsibilities, and contextual determinants of change. Course considers leadership practices used to build organizational capacity. Formerly EDL 826. Credit will not be awarded to students who have credit for EDL 826.

**EDL 944. Public Policy & Politics. (3 Credits)**

The course focuses on education policy formation, application, and impact on both P-12 and postsecondary education. The interaction between policy and politics is emphasized. Students will research and prepare policy briefs. Formerly EDL 924. Credit will not be awarded to students who have credit for EDL 924.

**EDL 945. Ed.D Field Experience. (3 Credits)**

(3) A. Formerly EDL 900. A diverse field experience relevant to the student's planned program of study and research focus, supported by a mentor through site visits, interviews, field investigations and peer information sharing.

**EDL 950. Educating and Supporting Diverse Student Populations. (3 Credits)**

(3) A. This course examines best practice approaches for educating and serving students marginalized due to environmental, developmental or behavioral conditions and circumstances. Students in this course will develop improvement plans and analyze strength-based leadership.

**EDL 951. Higher Ed Admin and Leadership. (3 Credits)**

A. Designed to examine major themes of higher education administration, organizational leadership and governance with special emphasis on contemporary leadership challenges in postsecondary educational settings. Formerly EDL 912. Credit will not be awarded to students who have credit for EDL 912.

**EDL 953. Adv Qualitative Res Methods. (3 Credits)**

(3) A. Prerequisite: EDD 903 or departmental approval. Examination of intermediate qualitative research methods. Emphasis is on advancing techniques for data collection, data analyses, and write up with emphasis on practice and application. Includes practice with Qualitative Data Analysis (QDA) software.

**EDL 954. Found & Cur Issues in Ed Leade. (3 Credits)**

(3) A. Students analyze leading theorists, historical development, legal and policy precedence, and contemporary issues in American P-20 education with emphasis on the examination of leader roles. Students will integrate theoretical, legal, and historical context to interpret current issues.

**EDL 955. Field Experience Elective. (3 Credits)**

(3) A. Formerly EDL 900. A field experience relevant to the student's planned program of study and research focus, supported by a mentor through site visits, interviews, field investigations and peer information sharing.

**EDL 956. Analysis of Research Lit. (3 Credits)**

(3) A. This is a doctoral course designed to instruct students on writing well-structured, critical literature reviews. The course covers topic selection, searching and managing literature data, note-taking techniques, assessing and synthesizing extant literature, and writing, editing, and proofreading strategies. Credit will not be awarded for both EDD 905 and EDL 956.

**EDL 999. Dissertation. (3 Credits)**

A. Prerequisite: departmental approval. Completion and defense of a research dissertation in educational leadership, policy studies, or related field. May be retaken to a maximum of twelve hours.

## EDO Acad Orientation - Educ (EDO)

**EDO 100. Student Success Seminar. (1 Credit)**

I. Designed to orient the student to university academic life and afford background for career choice and preparation. Included are University regulations and calendar, catalog details, registration and preregistration, various career opportunities, and program requirements. Open to all students during their first two semesters of enrollment at ECU; beyond that open to students with fewer than 30 semester hours earned.

## EES Essential Elements of Suc (EES)

**EES 220. Basic Facilitation Skills. (3 Credits)**

A. An introduction to facilitation and maximizing group potential students learn and practice basic methods for designing and planning effective meetings, creating and maintaining safe and engaging environments, and stimulating creative and critical thinking within groups.

**EES 250. Basic Social Intelligence Skills. (3 Credits)**

I, II. A focus on human relationships and research-based social skills. Students learn to operationalize theories into social intelligence skills and practice initiating, observing, listening, evaluating, and responding in ways that promote positive interactions and relationships. Gen. Ed. Element 1C [OC].

**EES 300. Advanced Social Intelligence Skills. (3 Credits)**

I, II. Prerequisite or Co-requisite: EES 250 or departmental approval. This is an advanced course that builds on the core skills presented in Basic Skills Intelligence Skills. It provides additional knowledge and skills for successfully engaging in more complex social and professional interactions and relationships. Junior standing required.

**EES 310. Applied Critical Thinking. (3 Credits)**

A. Prerequisite: Junior or Senior standing. This course will address the application of critical thinking skills within various fields of study. Students will learn critical thinking skills and how to integrate them into a successful career.

**EES 330. Applied Critical and Creative. (3 Credits)**

I, II. Prerequisite: Junior or Senior standing. This course addresses the application of critical thinking and creative thinking skills within multiple fields of study. Students will learn critical thinking and creative thinking skills and how to integrate those skills into a successful career.

**EES 360. Advanced Facilitation Skills. (3 Credits)**

A. Advanced methods and techniques to maximize group potential are taught and practiced, including problem solving, generating actionable ideas, decision-making, conducting meaningful conversations and safely and constructively addressing controversial issues.

**EES 450. Leaders Without Titles. (3 Credits)**

I, II. This course focuses on the personal dimensions that are needed to form the foundation of one's competencies and abilities to lead self and others.

**EES 460. The Science and Application of Leadership. (3 Credits)**

(3) II. Prerequisite: EES 450. This course provides students opportunities to examine, define, operationalize, and apply universal elements of leadership. Effective leaders need to be knowledgeable and skilled in these elements.

## EET Electricity/Electronics (EET)

**EET 251. Electricity and Electronics. (3 Credits)**

I, II. Prerequisite: Grade of at least "C" in MAT 095 or a minimum math ACT score of 18 or a minimum SAT math score of 490. Principles of basic electricity, circuit operation, and electronics. Topics include electrical components, measurements, power, characteristics of AC-DC, basic circuit laws, circuit simulation, magnetism, energy conversion, and sources. 2 Lec/2 Lab.

**EET 252. Digital Electronics. (3 Credits)**

I, II. Prerequisite: grade of at least "C" in MAT 090 or equivalent. A survey of digital electronics fundamentals and applications. Topics include number systems, digital mathematics, logic families, logic gates, multiplexers, demultiplexers, comparators, counters, decoders, displays, and converters. 2 Lec/2 Lab.

**EET 253. Microprocessor Control Systems. (3 Credits)**

A. Prerequisite: EET 251 and 252. The operation and application of microprocessor-based control systems in electro-mechanical project environments. Topics include data, address, and control signals; memory software; interfacing digital and analog devices; ports; and data communications. 2 Lec/2 Lab.

**EET 254. Machine Language/Microcontrol. (3 Credits)**

A. Prerequisite/Corequisite: EET 252. Machine language programming for ROM based microprocessor based industrial controllers. Emphasis on software manipulation of I/O control devices in real-time, interrupt driven, process control environments. 2 Lec/2 Lab.

**EET 257. Electronic Devices and Circuits. (3 Credits)**

A. Prerequisite: EET 251. An analysis of the characteristics of solid state devices and the common circuits that utilize these devices. Emphasis on problem solving supplemented by laboratory activities and demonstration of electronic circuits and devices. 2 Lec/2 Lab.

**EET 349. Co-op or Appl Lrn: CET/CEN. (1-8 Credits)**

II. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies in Computer Electronics Technology (CET) or Computer Electronic Networking (CEN). Transfer students must have completed at least 12 hours of coursework at EKU. A minimum of 80 hours work required for each academic credit.

**EET 350. Industrial Electronics I. (3 Credits)**

A. Prerequisite: EET 257. Principles of timing, power control circuitry, transducers, and programmable controllers in commercial and industrial applications. 2 Lec/2 Lab.

**EET 351. Programmable Logic Controllers. (3 Credits)**

A. Prerequisite: EET 251 or 252. The study of programmable logic controllers (PLCs). PLC functioning theory, selection, wiring, and programming. 2 Lec/2 Lab.

**EET 452. Electrical Power & Drives. (3 Credits)**

A. Prerequisites: EET 257; MAT 120 or higher and PHY 101. Principles of electromagnetic induction as applied to the generation, distribution, conversion, control, and measurement of electrical power. Analysis of the electronics used for electrical drives. Installation, programming and maintenance of digital drives. 2 Lec/2 Lab.

## EGC Education Grad Cert (EGC)

**EGC 820. Prof Stud I: Tchrs, Sch, & Soc. (3 Credits)**

A. Prerequisite: admission to the MAT program. Co-requisite: CED 810. An introduction to roles and responsibilities of teachers in standards-based schools, school organization, and relationship of school and society.

**EGC 826. Graduate Practicum in Ele Educ. (8 Credits)**

I. Prerequisites: EGC 820, 830, MAT Core I-IV, admission to student teaching. Corequisite: EGC 827. Elementary Master's of Arts in Teaching Practicum. Observation, participation, and responsibility for classroom teaching including related professional activities.

**EGC 829. Elementary MAT Capstone Sem. (3 Credits)**

I. Prerequisites: EGC 820 and 830, MAT Core I-III. Mediated presentation of action research project completed in Core III, completion and assessment of graduate portfolio, plan for continued professional growth based on experienced teacher standards.

**EGC 830. Prof Stud II: Lrns/Tchrs & Res. (3 Credits)**

A. Prerequisite: admission to MAT program. Co-requisite: CED 820. Focus on theories and principles of human development, curriculum and action research.

**EGC 835. Content Meth and Curr for EMG. (3 Credits)**

I. Prerequisites: admission to MAT in Middle Grade Education and Teacher Education; completion of EGC 820 (B), 830 (B). Co-requisite: CED 840. Examination of curriculum, responsibilities of teachers, appropriate methods and instructional materials for middle grades.

**EGC 836. Mid Grades Prac in Mid Gra Edu. (1-8 Credits)**

II. (1-8) Observation, participation, responsible classroom teaching including related professional activities.

**EGC 840. MAT Applied Learning in Ed. (3 Credits)**

(3) A. Corequisite: EGC 820 and EGC 830. Directed field experience in educational settings. Minimum of 200 hours field experience required.

**EGC 846. Grad Prac in the Sec/P-12 Sch. (1-8 Credits)**

A. (1-8) Observation, participation, responsible classroom teaching including related professional activities.

**EGC 889. M.A.T. Capstone Seminar. (3 Credits)**

A. Prerequisites: EGC 846 and 847; or departmental approval. Multi-media presentation of action research project completed in Core III, completion and assessment of graduate portfolio, plan for continued professional growth based on Experienced Teacher Standards.

## EHS Environmental Health (EHS)

**EHS 225. African/African-Amer Hlth Iss. (3 Credits)**

I. Cross listed as AFA 225. Provides the student with an understanding of the medical and public health issues relevant to the maintenance of health conditions both in the United States and Africa. Credit will not be awarded to students who have credit for AFA 225.

**EHS 230. Recreational Health. (3 Credits)**

II. Provides the student with an understanding of the biological, chemical and physical threats to health and life from the recreational, amusement, travel and tourist environments.

**EHS 280. One Health: Global Environmental Public Health. (3 Credits)**

A. Elements of global environmental health from a One Health Perspective, including water and waste treatment, air pollution, food sanitation, vector control, solid waste disposal, and general sanitation problems.

**EHS 290. Seminar in Environ Health. (2 Credits)**

A. Prerequisite: departmental approval. Discussion and analysis of literature related to selected current environmental health problems.

**EHS 300W. Water and Health. (4 Credits)**

I, II. Prerequisite: ENG 102 or 102R, 105(B), or HON 102, EHS 280, BIO 320 or MLS 209 and MLS 211. Drinking water safety in both individual private systems and larger public systems. Maintenance of raw water quality, water purification, delivery systems, and surveillance. Techniques for collection, treatment, and disposal of sewerage also discussed. Credit will not be awarded for students who have credit for EHS 300.

**EHS 335. Hazardous and Solid Waste Management. (3 Credits)**

II. Prerequisites: CHE 111, 111L and EHS 280; or departmental approval. Nature of toxic and hazardous wastes and methods for their disposal to protect health and the environment and to prevent contamination of groundwater. The environmental health and safety aspects of solid waste collection, treatment and disposal, and regulations governing waste management are also discussed.

**EHS 340. Total Worker Health Principles. (3 Credits)**

I, II. Prerequisites: BIO 111, CHE 111, 111L and EHS 280; or departmental approval. The impact of the workplace on safety and health, and methods for avoiding work-related illnesses. Emphasis will be on the evaluation and the control of the work environment to protect worker health.

**EHS 345. Applied Total Worker Health. (4 Credits)**

II. Prerequisite: EHS 340 or departmental approval. In-depth discussion of the chemical and physical hazards of the workplace and their evaluation and to provide hands-on experience in industrial hygiene sampling and analysis.

**EHS 349. Applied Learning in Environmental Health Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 349A. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 349B. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349C. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349D. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349E. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349F. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349G. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349H. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349I. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

Work in placements related to academic studies.

**EHS 349J. Cooperative Study: Environmental Health Science. (0.5-8 Credits)****EHS 349K. Cooperative Study: Environmental Health Science. (1-8 Credits)****EHS 349L. Cooperative Study: Environmental Health Science. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 349M. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 349N. Cooperative Study: Environmental Health Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to six hours credit per semester or summer. A minimum of 80 hours work required for academic credit.

**EHS 355. CBR Terrorism & Environmental Health. (3 Credits)**

II. This course will provide students with environmental health principles required to protect individuals and communities in times of war, general emergencies and disaster, both natural and human, due to chemical, biological and radioactive threats.

**EHS 360. Air Quality & Climate Change. (4 Credits)**

A. Prerequisites: CHE 112, 112L and EHS 280; or departmental approval. Health effects of air pollution, including a discussion of the primary sources of airborne pollutants, their transport and transformation, the control of air pollution, state and national standards.

**EHS 370. Environmental Disease Detectives: Epidemiology. (3 Credits)**

I, II. Prerequisites: EHS 280 and STA 215; or departmental approval. The use of data to define the health effects of exposed individuals or populations to hazardous materials and situations.

**EHS 380. Food Security and Sanitation. (3 Credits)**

I, II. Prerequisites: EHS 280 or departmental approval. A study of the health effects of food-borne disease, including an in-depth discussion of the physical, chemical, and biological contaminants that cause an estimated 76 million cases of food-borne illnesses annually in the U.S. An examination of the food processing and food service industry's failings and efforts to prevent food-borne illness will be the primary focus.

**EHS 390. EHS Special Problems in Environmental Health. (1-4 Credits)**

A. Prerequisite: departmental approval. For independent work, or special workshops, or special topics as they relate to environmental health issues and problems. May be retaken for maximum of eight hours.

**EHS 395. Environmental Problem Analysis. (3 Credits)**

II. Prerequisites: EHS 335, 340, and MAT 107 or 109; or departmental approval. Application of the student's knowledge gained from technical course work to analyze environmental problems. Emphasis is on logically solving environmental health issues that the student can expect when working in the field.

**EHS 425. One Health: Planning to Practical Application. (3 Credits)**

A. Prerequisites: EHS 280 and 335. Administration, planning, implementation, and evaluation of environmental health programs. Discussion of resources and promotional techniques, and the role of the environmental health specialist dealing with community, state, and regional agencies.

**EHS 440. Environmental and Industrial Toxicology. (3 Credits)**

II. Prerequisites: CHE 112, 112L and EHS 280; or departmental approval. Health effects and nature of toxic substances with discussion of dose-response relationships, latency, target organs, and potential exposures in the environment.

**EHS 460. Healthy Housing and Sustainability. (3 Credits)**

A. Prerequisite: EHS 280 or departmental approval. Corequisite: EHS 485. Discusses the requirements for healthful housing means of attaining and maintaining these requirements. Reviews environmental health concerns relating to day-care centers, schools, hospitals, nursing homes, and prisons. Describes surveillance, evaluative, and corrective methods.

**EHS 463. Field Experience in Environmental Health. (3 Credits)**

A. Prerequisites: EHS 300, 335, 380, and departmental approval. Supervised and directed field experience in local, state, regional environmental health agencies, or with appropriate industries. Eight to ten weeks full-time required depending on work place.

**EHS 485. Life After College: The Professional. (1 Credit)**

A. Prerequisite: 90 hours. Corequisite: EHS 460. Provides the graduating student a certification and licensure review for their required state and national exams. The student will also be taught how to develop professional success strategies and long range career plans.

**EHS 498. Independent Study in Environmental Health. (1-3 Credits)**

A. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department coordinator prior to enrollment. Opportunity for individual work on an environmental health research problem in a supervised situation.

**EHS 510. Radiological Health and Safety. (3 Credits)**

A. Provides the student with the principles of health effects from ionizing radiation, including radiation sources, detection, measurement, control, and safety devices. Student will be able to identify, evaluate and control radiation in the work environment; implement a radiation monitoring program; establish emergency plans for actions to be taken in event of radiological accident; develop risk assessment and communication program. Credit will not be awarded to students who have received credit for EHS 710.

**EHS 530. Emerging and Re-emerging Infectious Diseases. (3 Credits)**

I, II. Prerequisite: Senior Standing; BIO 111 and EHS 280. The student will acquire an understanding of the principles, biology, identification, evaluation, and control of vector borne diseases and other emerging/re-emerging diseases of public health concern.

**EHS 710. Radiological Health & Safety. (3 Credits)**

A. Provides the student with the principles of health effects from ionizing radiation, including radiation sources, detection, measurement, control, and safety devices. Student will be able to identify, evaluate and control radiation in the work environment; implement a radiation monitoring program; establish emergency plans for actions to be taken in event of radiological accident; develop risk assessment and communication program. Credit will not be awarded to students who have received credit for EHS 510.

**EHS 730. Emerging and Re- Infect Diseases. (3 Credits)**

I, II. The student will acquire an understanding of the principles, biology, identification, evaluation, and control of vector borne diseases and other emerging/re-emerging diseases of public health concern.

**EHS 839. Appl Learning in Env Hlth Sci. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839A. Co-op in Environmental Health. (0.5-6 Credits)****EHS 839B. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839C. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839D. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839E. Co-op in Environmental Health. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 839F. Appl Learning in Env Hlth Sci. (0.5-6 Credits)**

A. Cross listed with EHS 863. Supervised and directed field experience at official agencies at any level of government (local, state or national) or with a private industry. The EHS field practice course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 863.

**EHS 840. Total Worker Health. (3 Credits)**

A. A study of the impact of the work place on worker's health and the control of causative factors of disease.

**EHS 841. Occ Health Exposure Assessment. (3 Credits)**

A. Identify primary sources of potential chemical, physical and biological agents, identify techniques for assessing the risk of worker exposures and understand health impacts of occupational exposures to workers. (KYU and WEB course).

**EHS 855. Global Envir Crisis Management. (3 Credits)**

A. This course will provide students with environmental health principles required to protect the global environmental health of a community in times of emergency/disaster.

**EHS 860. Air Quality Assessment. (3 Credits)**

A. A study of health impacts of air pollution from both outdoor and indoor sources. The course will also provide information about methods of reduction, control, and elimination of air pollution.

**EHS 863. Field Experience in Env. Hea. (1-6 Credits)**

A. Cross listed with EHS 839. Supervised and directed field experience at official agencies at any level of government (state, local or national) or with private industry. The course administrator must approve all field-training sites before selection or assignment. Credit will not be awarded to students who have credit for EHS 839.

**EHS 865. Environmental Toxicology. (3 Credits)**

A. Toxicology, the principles, concepts and thinking that are its foundation. The mechanisms by which the substances enter the cells of the body, the physiological processes, the target organs, classes of toxic substances, and potential exposures.

**EHS 875. Principles of Ventilation. (3 Credits)**

A. Provides the student with the principles of ventilation including: design of fans, cleaners duct sizing: calculations, inspections, balancing the system, and overall maintenance. This course deals with use of ventilation to reduce or eliminate occupational exposures in the workplace.

**EHS 880. Food/Waterborne Sanitation. (3 Credits)**

A. The management of safety and disease hazards inherent in administering community programs of food hygiene, water supply, and wastewater treatment.

**EHS 885. Crisis Mgmt, Risk Com/Asmt. (3 Credits)**

A. Provides the student with the principles of Crisis Management and Risk Communication/Assessment by becoming familiar with laws that mandate risk communication, types, and approaches to risk communication, effective risk communication, importance of crisis management/communication, process of hazard risk assessment, and benefits of development and implementation of an emergency response program.

**EHS 890. Grad Project in Envrnmntl Hlth. (1-3 Credits)**

A. Research into a special topic in Environmental Health. Student must have approval of course faculty.

## ELE Early Elementary Education (ELE)

**ELE 101. Creative Thinking Through Performance Arts. (3 Credits)**

I,II. Study of Elementary Music and Movement activities/techniques. Perform, reflect, and implement essential age-appropriate musical instruction that highlights the importance of creative music making and the integration of the performing arts in other content areas.

**ELE 102. Creative Thinking Through Visual Arts. (3 Credits)**

I, II. Study of elementary art and media techniques. Create, reflect and implement essential age-appropriate art instruction that highlights the importance of art making and the integration of the visual and media arts in other content areas.

**ELE 201. Practical Living. (3 Credits)**

Elementary and dual certification (LBD + ELE or DHH + ELE) majors only. Explore personal wellness, nutrition, safety, psychomotor skills, and lifetime wellness for the elementary grades. Fulfills University Wellness Requirement.

**ELE 301. Mathematics Foundations P-5. (3 Credits)**

Prerequisite: Admission to professional education, MAT 107 with a minimum grade of "C". An overview of the mathematics state standards for teaching mathematics in grades K-5, and theories and research to teaching and learning mathematics. Minimum of ten field hours are required.

**ELE 302. Language Arts Foundations Grades P-5. (3 Credits)**

Prerequisite: Admission to professional education. An overview of the language arts, content and state standards for teaching the language arts, and theories and research related to teaching and learning the language arts. A minimum of 10 field hours are required.

**ELE 303. Classroom Music Methods. (2 Credits)**

(2). I. Cross-listed with MUE 302. Prerequisite: Admission to professional education. Corequisite: CED 300. Development of pedagogical skills and methods for teaching music concepts within the framework of a classroom music setting. Credit will not be awarded for both MUE 302 and ELE 303.

**ELE 314. Science Content, Pedagogy, and Assessment: Physical Sciences. (1 Credit)**

Prerequisite: Admission to professional education. Corequisite: CHE 100/PHY 102. Inquiry-based course focusing on content, pedagogy, assessment and materials for teaching physical science concepts in primary through grade five.

**ELE 322. Physical Education in the Elementary School. (2 Credits)**

I, II. Prerequisite: EDF 203 with a C or higher or EDF 310 with an S; Admission to Professional Education. Students who transfer the equivalent of EDF 203 must take EDF 310 as a pre-req or co-req. The study of the role of movement for the elementary school child; philosophy, principles, purposes, and programs of elementary physical education. Educational dance, educational gymnastics, and educational games are emphasized.

**ELE 361. Art in the Elementary Grades P-5. (3 Credits)**

I, II. Prerequisite: EDF 203 with a C or higher or EDF 310 with an S; Admission to Professional Education. Fundamental concepts of art education and those found in KERA. Exploration of art materials, processes, and activities for children in the elementary grades including those with special needs. Ten field/ clinical hours.

**ELE 362. Music Education for the Classroom Teacher. (3 Credits)**

I, II. Prerequisite: EDF 203 with a C or higher or EDF 310 with an S; Admission to Professional Education. Study and appraisal of teaching techniques, music literature, learning activities, curricular plans, and materials essential to the sequential development of musical learning in the elementary school. Ten field/clinical hours.

**ELE 365. Health Education P-5. (2 Credits)**

I, II. Prerequisite: EDF 203 with a C or higher or EDF 310 with an S; Admission to Professional Education. A study of curriculum design, teaching/learning strategies, resources, and evaluation procedures in elementary school health education. Topics include drugs, mental health, family living, nutrition, fitness, consumerism, environment, disease, and personal health. Ten field/clinical hours.

**ELE 401. Math Content, Pedagogy, & Assessment Grades 2-3. (3 Credits)**

Prerequisites: MAT 112 with a minimum grade of "C"; Admission to professional education. An examination of Mathematics for primary grades 2-3 and relevant standards, instructional practices, and assessments for learners at this developmental stage. Minimum of ten field hours are required.

**ELE 402. Language Arts Content, Pedagogy, and Assessment Grades 2-3. (3 Credits)**

Prerequisite: ELE 302 with a minimum grade of "C"; admission to professional education. An examination of beginning literacy and relevant content, standards, instructional practices, and assessments for learners at this development stage. A minimum of 10 field hours are required.

**ELE 403. Social Studies Content, Pedagogy, and Assessment: US History, Government, and Civics. (3 Credits)**

Prerequisite: Admission to professional education. An examination of relevant content, state academic standards, instructional practices, and assessments for US history government and civics for elementary P-5.

**ELE 404. Science Content, Pedagogy, and Assessment: Earth and Space Sciences. (1 Credit)**

Prerequisite: Admission to professional education. Corequisite: GLY 102. Inquiry-based course focusing on content, pedagogy, assessment, and materials for teaching earth and space science concepts in primary through grade five.

**ELE 411. Math Content, Pedagogy, & Assessment Grades 4-6. (3 Credits)**

Prerequisite: MAT 112 with a minimum grade of "C"; Admission to professional education. An examination of Mathematics for grades 4-6 and relevant standards, instructional practices, and assessments for learners at this development stage. Minimum of ten field hours are required.

**ELE 412. Language Arts Content, Pedagogy, and Assessment Grades 4-6. (3 Credits)**

Prerequisite: ELE 302 with a minimum grade of "C"; admission to professional education. An examination of fluent literacy and relevant content, standards, instructional practices, and assessments for learners at this development stage. A minimum of 10 field hours are required.

**ELE 420. Creative Thinking Lab. (1 Credit)**

I, II. Co-requisite: CED 450. Study of integrated elementary Arts Education. The course aims at defining, developing, and applying creative thinking skills as they relate to the integration of the Arts (art, music, drama, and dance) with other content areas (language arts, math, science, social studies, practical living, etc.) and state standards.

**ELE 421. Advanced Math Pedag & Assess. (2 Credits)**

Prerequisites: CED 400 (B); EME 301 (C) or MAE 302 (C); Admission to professional education. Corequisites: CED 450 and ELE 422. Methods and materials of teaching P-5 mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem solving.

**ELE 422. Advanced Language Arts Pedagogy and Assessment. (2 Credits)**

Prerequisites: [ELE 302 (C) and CED 400 (B) and Elem Ed major]; or [SED 260 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/ELE concentration]; or [SED 260 (C) and CED 400 (B) and DHH major w/ELE concentration]; admission to professional education. Corequisite: CED 450 and ELE 423. An examination of advanced pedagogical skills for teaching language arts with an emphasis on assessing, diagnosing, prescribing, and monitoring for student learning, differentiated instruction, and teacher and student use of technology for instruction and assessment.

**ELE 423. Advanced Social Studies Pedagogy and Assessment. (2 Credits)**

I, II. Prerequisite: [EDF 413 (C) and CED 400 (B) and Elem Ed major]; or [SED 350 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/ELE concentration]; or [SED 510 (C) and CED 400 (B) and DHH major w/ELE concentration]; admission to professional education. Corequisite: CED 450 and ELE 424. Examination of advanced pedagogical skills for teaching the social studies in grades P-5 with an emphasis on formative and summative assessment to monitor student learning, differentiated instruction, and teacher and student use of technology.

**ELE 424. Advanced Science Pedagogy and Assessment. (2 Credits)**

I, II. Prerequisite: [EMS 490 (C) and CED 400 (B) and Elem Ed major]; or [SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/ELE concentration]; or [SED 390 (C) or EMG 490 (C), and CED 400 (B), and DHH major w/ELE concentration]; admission to professional education. Co-requisites: CED 450 and ELE 421. Modern materials and methods for teaching inquiry-based science in primary through grade five.

**ELE 445. Foundations of Reading/ Language Arts. (3 Credits)**

I, II. Cross-listed as EMG 445. Prerequisites: Admission to professional education. Corequisite or Prerequisite: EDF 219, or 219W. An overview of reading/language arts components P-5, teacher competencies, organization and planning for instruction. Up to 10 clinical hours may be required. Credit will not be awarded to students who have credit for EMG 445, EMG 445W, ELE 445W, ELE 302, or SED 260.

**ELE 445W. Foundations of Reading/ Language Arts. (3 Credits)**

I, II. Cross listed as EMG 445W. Prerequisites: junior standing; 2.75 GPA; ENG 101 and 102, or HON 102 with a minimum grade of "C", or ENG 105 with a minimum grade of "B"; admission to professional education. Corequisite or Prerequisite: EDF 319, 319W, 219, or 219W. An overview of reading/language arts components P-5, teacher competencies, organization and planning for instruction. Twenty hours of field/clinical experiences. Credit will not be awarded to students who have credit for EMG 445, EMG 445W, ELE 445, or ELE 302.

**ELE 446A. Reading & Language Arts P-5. (3 Credits)**

I, II. Prerequisites: EDF 319, EDF 319W, EDF 413, ELE 490, ELE 445 with a grade of "C" or higher and admission to professional education. Prerequisite or Corequisite: SED 402. Corequisite: CED 450. Emphasis on theory, curriculum, teaching techniques and materials, instructional planning, assessment and use of results. Credit will not be awarded to students who have credit for ELE 446S and/or ELE 446W.

**ELE 446B. Reading & Language Arts P-5. (3 Credits)**

I, II. Prerequisites: EDF 319, EDF 319W, EDF 413, ELE 490, ELE 445 with a grade of "C" or higher and admission to professional education. Prerequisite or Corequisite: SED 402. Corequisite: CED 450. Emphasis on theory, curriculum, teaching techniques and materials, instructional planning, assessment and use of results. Credit will not be awarded to students who have credit for ELE 446S and/or ELE 446W.

**ELE 446C. Reading & Language Arts P-5. (3 Credits)**

Emphasis on theory, curriculum, teaching techniques and materials, instructional planning, assessment and use of results. Twenty field/clinical hours.

**ELE 475. Diagnosing & Remediating reading Difficulties. (3 Credits)**

I,II. Prerequisites: SED 260 or ELE 302 and admission to professional education. Corequisite: CED 400. A study of the procedures for assessing and diagnosing reading difficulties, and implementing reading instruction to assist struggling readers in grades P-5. Embedded Field/Clinical Experiences: 40 hours.

**ELE 491A. Mathematics in ELE Grades P-5. (3 Credits)**

Methods and materials of teaching P-5 mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem solving. Twenty field/clinical hours.

**ELE 491B. Mathematics in ELE Grades P-5. (3 Credits)**

Methods and materials of teaching P-5 mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem solving. Twenty field/clinical hours.

**ELE 491C. Mathematics in ELE Grades P-5. (3 Credits)**

Methods and materials of teaching P-5 mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem solving. Twenty field/clinical hours.

**ELE 492A. Science in ELE Grades P-5. (3 Credits)**

Modern materials and methods for teaching science in P-5. Five discussion-laboratory hours per week. Twenty field/clinical hours.

**ELE 492B. Science in ELE Grades P-5. (3 Credits)**

Modern materials and methods for teaching science in P-5. Five discussion-laboratory hours per week. Twenty field/clinical hours.

**ELE 492C. Science in ELE Grades P-5. (3 Credits)**

Modern materials and methods for teaching science in P-5. Five discussion-laboratory hours per week. Twenty field/clinical hours.

**ELE 493A. Soc Studies in ELE Grades P-5. (3 Credits)**

Theory, content, and practice of teaching Social Studies in grades P-5. Twenty field/clinical hours.

**ELE 493B. Soc Studies in ELE Grade P-5. (3 Credits)**

Theory, content, and practice of teaching Social Studies in grades P-5. Twenty field/clinical hours.

**ELE 493C. Soc Studies in ELE Grade P-5. (3 Credits)**

Theory, content, and practice of teaching Social Studies in grades P-5. Twenty field/clinical hours.

**ELE 507. Problems in Elementary Education. (1-3 Credits)**

A. Prerequisite: advisor/ departmental approval. Independent work, special workshops, special topics, or seminar.

**ELE 519. Teaching in the Kindergarten. (3 Credits)**

I, II. Focuses upon the kindergarten movement, organization, equipment, curriculum, and procedures; leaders and literature of kindergarten education. Opportunity for observing and participating in kindergarten.

**ELE 707. Problems in Ele Education. (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Independent work, special workshops, special topics, or seminar.

**ELE 719. Teaching in the Kindergarten. (3 Credits)**

A. Focuses upon leaders and literature of kindergarten education including historical movements, organizations, curricula, equipment, and procedures used with normal, developmentally different, and multicultural children.

**ELE 807. Elementary Education:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Independent work, workshops, special topics, or seminars. May be retaken under different subtitles.

**ELE 808. Reading Recovery in Elem Ed. (3 Credits)**

Independent work, workshops, or seminars related to the use of Reading Recovery® in Elementary Education. Course is restricted to the Reading Recovery® cohort.

**ELE 810. Elementary School Curriculum. (3 Credits)**

I, II. Study in depth of principles, materials, and procedures in current curriculum development and revision in the elementary school.

**ELE 820. Literacy Foundation P-5. (3 Credits)**

Intensive study of methods and materials appropriate for developing emergent, primary, and transitional literacy in grades P-5.

**ELE 821. Literacy Instr. & Assess P-5. (3 Credits)**

I, II. Pre-requisite: ELE 820. Co-requisite: CED 840. An examination of current trends and problems related to literacy instruction and assessment in grades P-5. Major emphasis on teaching and assessing reading, listening, writing, speaking, grammar, spelling, and handwriting.

**ELE 822. Mathematical Foundations P-5. (3 Credits)**

An overview of the mathematics state standards for teaching mathematics in grades K-5, and theories and research related to teaching and learning mathematics.

**ELE 823. Math Content, Ped, & Assessmen. (3 Credits)**

I, II. Prerequisite: ELE 822. Co-requisite: CED 840. An examination of mathematics for grades P-5 and relevant content, standards, instructional practices, and assessments for learners in this grade span.

**ELE 824. Science Cont, Ped & Asses P-5. (3 Credits)**

I, II. Co-requisite: CED 840. Inquiry-based course focusing on content, pedagogy, and materials for teaching science concepts in primary through grade five.

**ELE 825. Soc Stud Cont, Ped, & Assessme. (3 Credits)**

I, II. Co-requisite: CED 840. This course teaches the content and pedagogical content knowledge in geography, US and world history, government, and civics, cultures, and economics included in elementary state curricula and the Common Core State Standards.

**ELE 826. Integrating Arts, Hum, & Pract. (2 Credits)**

I, II. Study of integrated elementary arts, humanities and practical living skills. Create, reflect upon, and implement essential age-appropriate instruction integrated with elementary content area studies.

**ELE 827. Integrated Thematic Teaching. (2 Credits)**

I, II. Exploration of integrated thematic teaching curriculum focused on making connections through the unification of multiple subjects and experiences.

**ELE 871. Literacy Programs P-5. (3 Credits)**

A. Prerequisite: Admission to Master of Arts in Education, Master of Arts in Teaching, Rank 1, an Endorsement Preparation Program (Elementary Mathematics Specialist, English as a Second Language, Gifted Education, Literacy Specialist, or Reading), or a Certification Preparation Program (Elementary, Middle Grades, Secondary, School Media Librarian, Deaf and Hard of Hearing, Interdisciplinary Early Childhood Education, Learning and Behavior Disorders, or Moderate and Severe Disabilities). Intensive study of methods and materials appropriate for developing emergent, primary, and transitional literacy in grades P-5. (Minimum of 10 clinical hours required.)

**ELE 897. Independent Study. (1-3 Credits)**

I, II. Primarily for advanced graduate students who desire to investigate special problems relating to elementary education. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## EMC Emergency Medical Care (EMC)

**EMC 102. First Response Emergency Care. (2 Credits)**

I, II, A. Prerequisite or co-requisite: EMC 104. Emergency medical care techniques adhere to U.S. Department of Transportation curriculum for Emergency Medical Responder. Credit will not be awarded to students who have credit for HEA 202 or HEA 203. 2 Lec/2 Lab.

**EMC 104. Healthcare Basic Life Support. (1 Credit)**

A. Basic cardiac life support skills for healthcare student or professional in accord with peer-reviewed American Heart Association (AHA) scientific guidelines. Course completion documentation when AHA requirements met. Maximum 6 enrollments for renewal. 0.25 Lec/0.75 Lab.

**EMC 105. Survey of Medical Terminology. (1 Credit)**

A Cross-listed with CHS 105. Independent study, modular design paced by class meetings includes work roots, prefixes, suffixes, and general medical terms. Credit will not be awarded to students who have previously taken CHS 105 and MAS 200.

**EMC 110. Introduction to Emergency Medical Care. (3 Credits)**

I, II, A. Prerequisite or Corequisite: EMC 104 and EMC 110L. Prehospital basic life support concepts for entry level Emergency Medical Technician-Basic adhering to national curricula. Meets eligibility requirements for state certification and national registration cognitive examinations.

**EMC 110L. Introduction to Emergency Medical Care Laboratory. (2 Credits)**

A. Prerequisite or Corequisite: EMC 104 and EMC 110. Prehospital basic life support skills and field clinical experience for entry level Emergency Medical Technician-Basic adhering to national curricula. Meets eligibility requirements for state certification and national registration psychomotor examinations. 4 Lab.

**EMC 115. Basic Clinical/Field Experience. (2 Credits)**

I, II, A. Prerequisite: departmental approval and Certified EMT-Basic. Minimum of 64 hours supervised hospital emergency department and prehospital emergency care ambulance clinical experience. Preceptor evaluates basic life support knowledge and skills.

**EMC 130. Human Systems of Assessment. (3 Credits)**

A. Overview of human body and its systems as applied to rapid patient assessment and problem identification. Limited to certified paramedic students only.

**EMC 200. Introduction to Prehospital Advanced Life Support. (2 Credits)**

II, A. Role and responsibilities of EMT-Paramedic, components of EMS systems, medical/legal considerations, and communications in advanced and basic life support settings.

**EMC 205. Prehospital Management of OB/GYN Emergencies. (1 Credit)**

I, A. Pathophysiology and advanced level prehospital management of antepartum, parturition, postpartum, and gynecological emergencies. Assessment, care, and transportation of the neonate.

**EMC 212. Crash Victim Auto Extrication. (1 Credit)**

I, A. Survey of vehicle extrication procedures for emergency medical personnel. Adheres to U.S. Department of Transportation content and objectives. 1 Lec/1 Lab.

**EMC 215. Prehospital Management of Behavioral Emergencies. (1 Credit)**

I, A. Survey of vehicle extrication procedures for emergency medical personnel. Adheres to U.S. Department of Transportation content and objectives. 1 Lec/1 Lab.

**EMC 225. Introduction to Pharmacology. (3 Credits)**

I, II, A. Introduction to classification, nature, and uses of medications. Pharmacological agents utilized in prehospital health care setting emphasized.

**EMC 240. Introduction to Electrocardiography. (3 Credits)**

I, II, A. Cardiac anatomy, physiology, and electrophysiology related to ECG. Proficient ECG interpretation skills emphasized. EMC 270 EMT/ Theory/ Practicum I.

**EMC 300. Emergency Operations, and Behavioral Crisis. (3 Credits)**

Introduction to the emergency medical field. Topics include legal and ethical issues; infection control; disaster preparedness; and recognition and care of patients with behavioral emergencies. Credit will not be awarded to students who have credit for EMC 200 or EMC 215.

**EMC 303. Introduction to Cardiology. (3 Credits)**

Introduction to prehospital electrocardiography and use and classification of pharmacological agents. Credit not awarded to students who have received credit for EMC 225 and EMC 240.

**EMC 305. Prehospital Management of OB/GYN/Pediatric Emergency. (3 Credits)**

Pathophysiology and advanced level assessment and management of OB, GYN, and pediatric patients. Credit will not be awarded to students who have received credit for EMC 205.

**EMC 310. Advanced Cardiology. (3 Credits)**

(2) II, A. Prerequisites and/or co-requisites: EMC 303 and EMC 335; or departmental approval. Advanced diagnostics, interventions, and management of cardiovascular emergencies to include cardiac resuscitation adhering to the standards of the American Heart Association. AHA ACLS Provider required for course completion. 2 Lec/2 Lab.

**EMC 315. Pediatric Adv Life Support. (1 Credit)**

A. Assessment, recognition, and intervention for infant or child with cardiopulmonary arrest or shock. Adheres to American Heart Association and Academy of Pediatrics cognitive and performance standards. AHA PALS Provider evidence of course completion available.

**EMC 320. Adv Life Support: Trauma. (3 Credits)**

II, A. Prerequisites: EMC 115, 240, BIO 171, 301. Prehospital management of complex patients with multiple systems failure secondary to trauma related pathologies.

**EMC 335. Medical Emergencies I. (3 Credits)**

I, A. Prerequisites: EMC 240, BIO 171, 301, EMC 115, 225, and department approval. Pathophysiology and advanced level prehospital management of emergencies of the respiratory, cardiovascular, endocrine, nervous, gastrointestinal, genitourinary, and reproductive systems.

**EMC 336. Case Management. (1 Credit)**

I, II, A. Prerequisite or Co-requisite: EMC335 and 342 or departmental approval. Hands-on advanced case management of medical and trauma emergencies using low and high-fidelity patient care simulation.

**EMC 340. Advanced Life Support: Medical Emergencies. (3 Credits)**

II, A. Prerequisite: EMC 335. Pathophysiology and advanced level prehospital management of emergencies involving anaphylaxis, toxicology, alcoholism, drug abuse, infectious diseases, environmental hazards, and pediatric and geriatric patients.

**EMC 341. Case Management. (1 Credit)**

I, II, A. Co-requisite: EMC 340 and 352 or departmental approval. Advanced case management of medical and trauma emergencies requiring critical thinking, oral critical thinking, practical and didactic assessment.

**EMC 342. Advanced Clinical I. (3 Credits)**

I, A. Corequisite: EMC 335. Integration of basic and advanced life support concepts and psychomotor skills in patient care situations developed through supervised assignments in various clinical settings and through simulation.

**EMC 342L. Advanced Clinical I Lab. (0 Credits)**

Integration of basic and advanced life support concepts for psychomotor skills in patient care situations developed through supervised assignments in various clinical settings and simulation.

**EMC 349. Co-op or Appl Lrn: Em Med Care. (0.5-8 Credits)**

I, II, A. Work in placements related to academic studies. A minimum of 80 hours of employment is required for each semester credit hour.

**EMC 349A. Cooperative Study: Emergency Medical Care. (0.5-8 Credits)****EMC 349B. Cooperative Study: Emergency Medical Care. (0.5-8 Credits)**

Work in placements related to academic studies.

**EMC 352. Advanced Clinical II. (3 Credits)**

II, A. Prerequisite: EMC 342. Corequisites: EMC 320, 340 and 352L. Hospital assignments allow continued development and application of cognitive and psychomotor skills in critical situations. Autonomous decision-making skills developed under supervision through increased participation in patient care.

**EMC 352L. Advanced Clinical II Lab. (0 Credits)**

(0) Pre-requisite: EMC 342. Co-requisite: EMC 340 and EMC 352. Clinical assignments allow continued development and application of cognitive and psychomotor skills in critical situations. Autonomous decision-making and critical thinking skills in clinical situations developed under supervision through increased participation in patient care.

**EMC 360. Advanced Field Internship. (2 Credits)**

A. Prerequisites: EMC 205, 212, 215, 310, 320, and 352. Minimum 120 hours supervised experience on paramedic ambulance. Progresses from advanced emergency care delivery observation to beginning team member responsibilities.

**EMC 362. Advanced Field Internship II. (4 Credits)**

A. Prerequisite or Corequisite: EMC 200, 205, 215, and 360. Continuation of supervised experience on advanced life support ambulance. Assumes team member role with progression to team leader. Minimum advanced internship experience requires 75 ALS Contacts.

**EMC 380. Advanced Prehospital Theory Medical. (4 Credits)**

A. Prerequisites: Kentucky Certified EMT-Paramedic and admission to EMC major. Foundation course for paramedic students which focuses on pathophysiological basis for prehospital interventions and management. Includes in-depth history and assessment skills.

**EMC 382. Adv Prehospital Theory-Trauma. (4 Credits)**

A. Prerequisites: Kentucky Certified EMT-Paramedic and admission to EMC major. Foundation course for paramedic students which focuses on pathophysiological basis for prehospital interventions and management in trauma settings. Includes in-depth history and assessment skills.

**EMC 389. Topical Seminar.\_\_\_\_\_. (1-3 Credits)**

I, II, A. Prerequisite or Co-requisite: EMC 320, 335 and 342 or departmental approval. Development and presentation of research in contemporary methods, techniques, practices, and devices in the field. May be retaken under different topics to a maximum of 12 hours.

**EMC 400. Emergency Care Systems Management. (3 Credits)**

I, II, A. Prerequisites: ENG 300 or FSE 200. EMS systems design and typical agency divisions, including operations, communications, training and customer service. Projects focus on system design, training and efficiency.

**EMC 420. Emergency Services Design and Budget. (3 Credits)**

A. Prerequisite or Co-requisite: ENG 300 (or FSE 200) or departmental approval. Identify and compare issues with staffing, operations, communications, training and mission with various EMS systems models. Develop and revise sample budgets for EMS systems.

**EMC 430. Legal and Ethical Aspects of Emergency Services. (3 Credits)**

A. Prerequisite: departmental approval. Examine and apply moral and ethical decisions made in emergency services. Issues of diversity, expanded health care settings, aging population, and others will be explored.

**EMC 430W. Legal and Ethical Aspects of Emergency Services. (3 Credits)**

Prerequisite: departmental approval. Examine and apply moral and ethical decisions made in emergency services. Issues of diversity, expanded health care settings, aging population, and others will be explored. Credit will not be awarded for both EMC 430W and EMC 430.

**EMC 440. EMS Instruction. (3 Credits)**

A. Prerequisite: departmental approval. Introduction to the principles involved in EMS adult learning. Roles issues, domains of learning, and instruction models will be emphasized. Organization and planning for the EMS community including diverse learning populations and regulations.

**EMC 450. Disaster Medical Operations. (3 Credits)**

A. Emergency medical communications, cooperation and support in response to a natural or human-made disaster. Planning, delivery and recovery of medical systems by various local, state and federal agencies and the private sector.

**EMC 480. Topics in Emergency Medicine. (3 Credits)**

I, II, A. Investigation into the pathophysiology of traumatic and medical emergencies which applies to the latest trends in recognition and management.

**EMC 489. Introduction to Research Methods. (3 Credits)**

A. Prerequisites: ENG 300 or FSE 300, and FSE 200. Introduction to basic research methods for professionals in emergency services and public agency practitioners and educators. This includes foundational principles of statistical analyses and application, as well as human subjects protections.

## EME Early Elem/Middle School (EME)

**EME 301. Mathematical Concepts for P-9 III. (3 Credits)**

I,II. Cross-listed as MAE 302. Prerequisites: Admission to professional education; MAT 112 or higher and MAE 201 each with a grade of "C" or better. Pre- or Co-requisite: MAE 202 with a grade of "C" or better. Concepts beyond algorithmic computation are emphasized. Topics include algebraic thinking, basic algebra topics (i.e. variables, expressions, equations, graphs and linear problems solving) and geometry. Credit will not be awarded to students who have credit for MAE 302.

**EME 313. Interdisciplinary Approach to Social Studies Teaching. (3 Credits)**

I, II. Prerequisite: EDF 203. World history, economics, geography, anthropology and sociology content in an interdisciplinary context and researched instructional strategies appropriate for the P-9 classroom. Credit will not be awarded to students who have credit for ELE 313.

**EME 361. Art Teaching Grades P-5. (3 Credits)**

I. Cross listed as AED 361. Prerequisites: AED 360 or department approval, and Admission to Professional Education. Developmentally appropriate curriculum, materials, and methods for grades P-5. Minimum of 10 field/clinical hours. Credit will not be awarded for both EME 361 and AED 361.

**EME 378. Teaching Music in Grades P-8. (3 Credits)**

II. Cross-listed with MUE 378. Prerequisites: admission to professional education, major in music. Co-requisite: CED 400. Developmentally appropriate materials and methods for teaching P-8 music. Credit will not be awarded to students who have credit for MUE 378.

**EME 442. Teaching Foreign Language in Grades P-8. (3 Credits)**

I. Prerequisites: admission to professional education, major in foreign language. Developmentally appropriate curriculum, materials, and methods for the P-8 foreign language program. Minimum of 20 field/clinical hours.

**EME 452. Teaching Grammar and Punctuation P-8. (3 Credits)**

(I.II.) Pre-requisite: admission to professional education, ENG 101 (C) and 102 (C), or ENG 105 with a grade of "B" or higher or HON 102 (C). EMS 300 or EMS 300W. Prerequisite/corequisite: ELE 302, SED 260, or EMG 445. Review, practice and reflect on research-based instructional approaches to instruction and develop instructional plans to improve elementary and middle grades students' use of standard written and oral English. Credit will not be awarded to students who have credit for EME 552.

**EME 465. Teaching Physical Education in P-8. (3 Credits)**

A. Prerequisites: admission to professional education, PHE 323, major in physical education. Developmentally appropriate materials and methods for teaching P-8 physical education. Minimum of 20 field/clinical hours.

**EME 510. Art in the Curriculum. (3 Credits)**

A. Elements of the discipline, creativity, aesthetics, theory, philosophy, and instructional facilities. Individual explorations into theory and media.

**EME 551. Linguistics in the Curriculum. (3 Credits)**

A. Prerequisite: Admission to the Professional Education. Investigation of elements in the science of linguistics and their application to communication of students.

**EME 586. Health Education P-8. (3 Credits)**

A. Prerequisites: admission to professional education, major in school health. Developmentally appropriate curriculum, materials, and methods for the health P-8 program. Minimum of 20 field/clinical hours.

**EME 596. P E for Children and Youth. (3 Credits)**

A. Comprehensive review of techniques used in teaching physical education in the early elementary and middle grades. Emphasis placed on health evaluation, fitness testing, tumbling, rhythmical, game, and self-testing activities.

**EME 710. Art in the Curriculum. (3 Credits)**

A. Elements of the discipline, creativity, aesthetics, theory, philosophy and instructional facilities will be explored. Individual explorations of research and media.

**EME 751. Linguistics in the Curriculum. (3 Credits)**

A. Investigations of elements in the science of linguistics and their application to communication skills of students.

**EME 786. Teaching of Health in P-8. (3 Credits)**

A. Prerequisites: admission to teacher education and major in school health. Developmentally appropriate curriculum, materials, and methods for the health P-8 program. Minimum of twenty field/clinical hours.

**EME 796. P E for Children and Youth. (3 Credits)**

A. Comprehensive review of techniques used in teaching physical education in the early elementary and middle grades. Emphasis placed on health, evaluation, fitness testing, rhythmical activities, game activities, tumbling and self-testing.

**EME 843. Mathematics Intervention Strat. (3 Credits)**

A. Cross-listed as MAE 843. In-depth analysis of teaching resources, teaching strategies, and appropriate mathematics curriculum content for intervention. Credit will not be awarded for both EME 843 and MAE 843.

**EME 852. Teaching Grammar and Punct.. (3 Credits)**

(II.) Explore linguistic diversity and its impact on language development. Develop and evaluate contextualized, research-based language instructional approaches. Develop instructional plans to improve elementary and middle grades students' use of standard written and oral English. Credit will not be awarded to students who have credit for EME 752.

**EME 861. Art in Elem & Middle Grade P-8. (3 Credits)**

Pre-requisites: Admission to MAT program, concentration in art. Developmentally appropriate curriculum, materials, and methods for the P-8 Art program. Minimum of 10 clinical hours are required.

**EME 863. Social Sci in the Curriculum. (3 Credits)**

A. Emphasis on social science disciplines in the curriculum. New developments in social studies curricula are explored.

**EME 865. Investigations in Reading. (3 Credits)**

A. Prerequisite: ETL 802 or 805; Chair approval. Refine and implement a literacy focused action inquiry project. (Up to 40 hours of field experience may be required within candidates' own classroom or educational setting). Credit will not be awarded for EME 865 and ETL 804 or ETL 806.

**EME 866. Investigations in Mathematics. (1-3 Credits)**

A. Critical study of investigative and theoretical literature dealing with the teaching of mathematics.

**EME 870. Trends in Science Education. (3 Credits)**

A. Exploration of modern trends, practices, and foundation programs drawn from appropriate disciplines which relate to the teaching of science.

**EME 872. Mathematics in the Curriculum. (3 Credits)**

A. Cross-listed as MAE 872. Exploration of trends, concepts, and issues involved in modern mathematics programs. Research findings are examined and multi-sensory materials are presented. Credit will not be awarded to students who have credit for MAE 872.

**EME 873. Research Based Rdg. Inst.. (1-3 Credits)**

A. Advanced study of methods, materials, and organizational procedures appropriate for teaching developmental reading.

**EME 874. Lang Arts in the Curriculum. (3 Credits)**

A. Examination of current trends and curriculum problems related to teaching of language arts. Emphasis on listening, oral and written expression, spelling and handwriting. (Minimum of 10 clinical hours required.)

**EME 876. Investgtns in Sci.Ed/Ind.Study. (3 Credits)**

A. Prerequisite: instructor approval. Individual research and study of investigative and theoretical literature dealing with the teaching of science. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**EME 877. Practicum for Read Specialists. (3 Credits)**

A. Prerequisites: EMS 868 and 875. Supervised experience for reading specialists in diagnosing and instructing students with reading difficulties.

**EME 878. Teaching Music in Grades P-8. (3 Credits)**

Prerequisites: Admission to MAT program, major in music concentration. Developmentally appropriate materials and methods for teaching P-8 music. Minimum of 20 clinical hours are required.

## EMG Middle Grade Education (EMG)

### EMG 430. Middle Grade Curriculum. (3 Credits)

I. Prerequisites: admission to professional education, EDF319 with a C or higher. Corequisite: EMS 349R. An examination of the curriculum and the responsibilities of teaching in the middle grade.

### EMG 445. Foundation of Reading/Language Arts. (3 Credits)

I, II. Cross listed as ELE 445. Prerequisites: junior standing, 2.7 GPA; Admission to Professional Education. Prerequisite/Corequisite: EDF 319, 319W, 219, or 219W. An overview of reading/language arts components 5-9, teacher competencies, organization and planning for instruction. Twenty hours of field/clinical experiences. Credit will not be awarded to students who have credit for ELE 445, EMG 445W, ELE445W, or ELE 302.

### EMG 445W. Foundation of Reading/Language Arts. (3 Credits)

I, II. Cross listed as ELE 445W. Prerequisites: junior standing and 2.75 GPA, ENG 101 and 102, or HON 105 with a minimum grade of "C", or ENG 105 with a minimum grade of "B"; admission to professional education program. Prerequisite/Corequisite: EDF 319, 319W, 219, or 219W. An overview of reading/language arts components P-5, teacher competencies, organization and planning for instruction. Twenty hours of field/clinical experiences. Credit will not be awarded to students who have credit for ELE 445W, ELE 445, EMG 445, or ELE 302.

### EMG 447. Disciplinary Literacy in the Middle Grades. (3 Credits)

I. Prerequisites: EMG 445 or EMG 445W; and admission to professional education. Corequisite: CED 450. The theory, content and practice of teaching reading and language arts in the middle grades utilizing disciplinary literacy materials.

### EMG 491. Mathematics in the Middle Grades. (3 Credits)

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/EMG concentration]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG concentration]. Corequisite: CED 450. Appropriate materials and methods for teaching mathematics in the middle grades. Candidates must have completed (or be completing) at least 18 hours of math content in order to be eligible for this.

### EMG 492. Science in the Middle Grades. (3 Credits)

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/EMG conc]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG conc]. Corequisite: CED 450. Introduces prospective teachers to the modern materials and methods of teaching science in the middle grades. Candidates must have completed (or be completing) at least 18 hours of science content in order to be eligible for this methods course.

### EMG 493. Social Studies in the Middle Grades. (3 Credits)

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/EMG conc]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG conc]. Corequisite: CED 450. Appropriate materials and methods for teaching social studies in the middle grades. Candidates must have completed (or be completing) at least 18 hours of social sciences content in order to be eligible for this methods course.

### EMG 494. English and Communication in the Middle Grades. (3 Credits)

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/EMG conc]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG conc]. Corequisite: CED 450. Study of effective teaching techniques, strategies and materials for middle grade English/communication skills. Credit will not be awarded for both EMG 494 and EMG 494W. Candidates must have completed (or be completing) at least 18 hours of English/Language Arts content in order to be eligible for this methods course.

### EMG 494W. English and Communication in the Middle Grades. (3 Credits)

I, A. Prerequisites: Admission to professional education and [EDF 413 (C) and EMS 490 (C) and CED 400 (B) and Middle Grades major]; or [SED 350 (C) and SED 390 (C) and CED 400 (B) and Spec Ed/Teaching major w/LBD/EMG conc]; or [SED 510 (C), SED 390 (C) or EMS 490 (C), CED 400 (B), and DHH major w/EMG conc]; and grade of "C" or higher in ENG 101 and 102, or HON 102; or ENG 105 with a grade of "B" or higher. Corequisite: CED 450. Study of effective teaching techniques, strategies and materials for middle grade English/communication skills. Credit will not be awarded for both EMG 494 and 494W. Candidates must have completed (or be completing) at least 18 hours of English/Language Arts content in order to be eligible for this methods course.

### EMG 507. Problems in Middle Grade Education:\_\_\_\_. (1-3 Credits)

A. Prerequisite: advisor approval. Independent work, workshops, special topics, or seminar. May be retaken to a maximum of six hours under different subtitles.

### EMG 707. Problems in Middle Grade Educ.:. (1-3 Credits)

A. Prerequisite: approval of advisor. Independent work, workshops, special topics, or seminar. May be taken for a maximum of six hours under different subtitles.

### EMG 806. Read Instruction Middle School. (3 Credits)

A. Prerequisite: a course in foundations or reading/language arts instruction. Comprehensive study of materials and strategies for teaching reading in the middle grades with special emphasis on reading in the content areas. (Minimum of 10 clinical hours required)

### EMG 807. Middle Grade Education: \_\_\_\_\_. (1-3 Credits)

A. Independent study, special workshops, topics, or seminars. May be retaken for a maximum of six hours under different subtitles.

### EMG 810. Curriculum in Middle School. (3 Credits)

A. A study of the physical, social, emotional, and intellectual needs unique to the middle grade student and their implications for courses of study, the learning environment, and teacher characteristics.

### EMG 897. Independent Study. (1-3 Credits)

A. Offered for advanced graduate students who desire to investigate special problems related to middle grade education.

## EMS Early Elem/Mid/Sec Educ (EMS)

### EMS 200. Exploring Africa Through Play. (3 Credits)

(3) I. II. Prerequisite: ENG 102, Cross-Listed with AFA 200. An exploration of the diversity of Sub-Saharan Africa through an immersion in pre-colonial children's songs and games. The course aims at developing a deeper understanding and sensitivity to cultural diversity in Africa. Credit will not be awarded for both EMS 200 and AFA 200. Gen. Ed. E-6.

**EMS 300W. Curriculum and Instructional Design. (1-3 Credits)**

Pre-requisites: ENG 101 (C), 101R (C), 102 (C), or HON 105 with a minimum grade of "C", or ENG 105 with a minimum grade of "B" or HON 102(C), EDF 203, 219, or 219W, and admission to Professional Education, Co-Requisite: CED 300 and EDC 300. In depth review of national and state curriculum, balanced assessment, and effective teaching strategies for birth-12. Backward design will be used to plan instruction. Methods and materials related to students' academic emphases will be stressed. (Course embedded and school-based clinical practice required: if students do not make the requisite passing grade of C in the content course, they must repeat that course, and also complete an additional corequisite clinical experience).

**EMS 431. Language Arts Content, Pedagogy, and Assessment Grades 6-8. (3 Credits)**

Prerequisite: ELE 302 with a grade of "C" or higher and admission to professional education. An examination of advanced literacy and relevant content, standards, instructional practices, and assessments for learners at this developmental stage. A minimum of 10 field hours are required.

**EMS 432. Language Arts Content, Pedagogy, and Assessment Grades 9-12. (3 Credits)**

Prerequisites: ELE 302 with a minimum grade of "C", and admission to professional education. An examination of adolescent literacy and relevant content, standards, instructional practices, and assessments for learners at this developmental stage. A minimum of 10 field hours are required.

**EMS 474. Disciplinary Literacy. (1-3 Credits)**

Prerequisite: EDF 413 (C), EMS 490 (C), CED 400 (B), and admission to professional education, Corequisite: CED 450, 499 or departmental approval. Emphasis on development of disciplinary literacy competencies, selection of appropriate materials, instructional strategies and assessment.

**EMS 490. Classroom & Behavior Management. (1-3 Credits)**

I, II. Prerequisite: EMS 300W (C), EDC 300 (C), and Admission to Professional Education. Corequisites: EDF 413 or SED 350 (for LBD education majors) or SED 450 (for DHH majors); and CED 400. Critical analysis of the components of an effective classroom environment including establishing rules, procedures, and routines and organizing space. Emphasis on strategies to assess and monitor individual student behavior to support achievement. Course embedded and school-based clinical practice required: if students do not make the requisite passing grade of C in the content course, they must repeat that course and also complete an additional clinical experience.

**EMS 502. Music Tech Teaching Methods. (2 Credits)**

I. Cross listed with MUE 502/702. Prerequisite: Instructor approval. Corequisite: CED 450. Development of strategies and techniques for teaching music through digital pedagogy. Methods for developing musicianship through hands-on student involvement, as well as the use of technology to aid in instruction and delivery in the music classroom. Credit will not be awarded for both MUE 502 and EMS 502.

**EMS 561. Environmental Education Essentials. (3 Credits)**

A. Prerequisites: Junior-level standing, ENG 102 or ENG 105 (B) or HON 102, and MAT 105 or higher, or departmental approval. This course delves into the philosophy, historical development, resource identification and curriculum development of environmental education. Credit will not be awarded to students who have credit for ENV 561.

**EMS 563. Teaching Environmental Education. (3 Credits)**

(3) Summer Only. Appropriate methods and materials for effective environmental education in a variety of settings. Credit will not be awarded for both EMS 563 and EMS 763.

**EMS 564S. Service Learning as Pedagogy. (3 Credits)**

(3) A. Prerequisites: Junior-Level standing, ENG 102 or ENG 105(B) or HON 102, and MAT 105 or higher, or departmental approval. Classroom service learning strategies and techniques will be modeled. Discussion about practical application and reflection on class activities will follow. An environmental service learning project will be planned and carried out during the course. Credit will not be awarded to students who have credit for ENV 564S.

**EMS 565S. Teaching in the Outdoors. (3 Credits)**

(3) Summer Only. Basic Principles of outdoor teaching will be combined with outdoor skills and an environmental service learning investigation. Due to its content, this will be taught in workshop format during the summer semester. Credit will not be awarded for both EMS 565s and EMS 765S.

**EMS 575. Methods for Multilingual Learners. (3 Credits)**

A. The study of effective methods of Teaching English as a Second Language (TESL). Thirty hours of field experiences are required. This course aims to enable you to critically examine, analyze, and apply theories and methodologies used in multilingual teaching. The ultimate purpose/objective of this course is to help you acquire the pedagogical competency repertoire needed to enhance and maximize learning for your multilingual learners.

**EMS 576. Assessment Methods for ELLs. (3 Credits)**

(3) (II). Prerequisite: EDF 413 This course is designed to examine the major principles and methods of assessment for English Language Learners, including standardized testing, classroom-based performance, and alternative assessment. Sociocultural issues related to assessment will also be explored. (20 hours of clinical experience required). Credit will not be awarded to students who have credit for EMS 776.

**EMS 577. Culturally and Linguistically Responsive Teaching. (3 Credits)**

(3) (II). The purpose of this course is to help educators develop awareness of the implications of cultural and linguistic diversity for school success as well as effective techniques for collaborating with immigrant students and families. Credit will not be awarded to students who have completed EMS 777.

**EMS 702. Music Tech Teaching Methods. (2 Credits)**

I. Cross listed with MUE 702. Prerequisite: Instructor approval. Development of strategies and techniques for teaching music through digital pedagogy. Ideas for developing musicianship through hands-on student involvement, as well as the use of technology to aid in instruction and delivery in the music classroom. Credit will not be awarded for both EMS 702 and MUE 702.

**EMS 761. Environmental Education Essen. (3 Credits)**

(3) I. This course delves into the philosophy, historical development, resource identification and curriculum development of environmental education. Credit will not be awarded for both EMS 761 and EMS 561.

**EMS 763. Teaching Environmental Educati. (3 Credits)**

(3) Summer Only. Appropriate methods and materials for effective environmental education in a variety of settings. Credit will not be awarded for both EMS 563 and EMS 763.

**EMS 764S. Service Learning as Pedagogy. (3 Credits)**

(3) A. Classroom service learning strategies and techniques will be modeled. Discussion about practical applications and reflection on class activities will follow. An environmental service learning project will be planned and carried out during the course.

**EMS 765S. Teaching in the Outdoors. (3 Credits)**

(3) Summer Only. Basic Principles of outdoor teaching will be combined with outdoor skills and an environmental service learning investigation. Due to its content, this will be taught in workshop format during the summer semester. Credit will not be awarded for both EMS 565S, EMS 864s, and EMS 765S.

**EMS 775. Methods for Multilingual Learners. (3 Credits)**

A. The study of effective methods of Teaching English as a Second Language (TESL). Thirty hours of field experiences are required. This course aims to enable you to critically examine, analyze, and apply theories and methodologies used in multilingual teaching. The ultimate purpose/objective of this course is to help you acquire the pedagogical competency repertoire needed to enhance and maximize learning for your multilingual learners.

**EMS 776. Assessment Methods for ELLs. (3 Credits)**

(3) (II) This course is designed to examine the major principles and methods of assessment for English Language Learners, including standardized testing, classroom-based performance, and alternative assessment. Sociocultural issues related to assessment will also be explored. (20 hours of clinical experience required). Credit will not be awarded to students who have credit for EMS576.

**EMS 777. Culturally and Linguistically Responsive Teaching. (3 Credits)**

(3) (II). The purpose of this course is to help educators develop awareness of the implications of cultural and linguistic diversity for school success as well as effective techniques for collaborating with immigrant students and families. Credit will not be awarded to students who have completed EMS 577.

**EMS 810. Emerging Instructional Technol. (3 Credits)**

I, II. Technological applications to education, training, and instruction within educational settings. Students examine, develop, and/or evaluate emerging instructional technologies.

**EMS 818. Effective Inst Models & Pract. (3 Credits)**

A. A course designed to help students examine, evaluate, and apply recent research findings related to effective instruction and schools.

**EMS 830. Multicultural Pop/School Curr. (3 Credits)**

A. Exploration of ethnic and family backgrounds, class structure, patterns of living, language characteristics, and teacher-pupil attitudes as they relate to the school experience.

**EMS 842. Discipline & Classroom Mgt. (3 Credits)**

A. Knowledge and skills necessary for establishing and maintaining positive relationships in the classroom; disciplinary concerns of teachers. Theoretical and tested knowledge in personal behavior and communication skills systems examined for practical and effective application.

**EMS 846. Social Studies Investigation. (3 Credits)**

(3) A. Critical study and application of investigative and theoretical literature dealing with the teaching of social sciences.

**EMS 850. Curr. for Leaders in Education. (3 Credits)**

A. A course focusing on definition, planning, implementation, and assessment of P-12 curricula. Designed for students pursuing programs in Instructional Leadership.

**EMS 853. Creativity in the Classroom. (3 Credits)**

A. Designed to offer students experience with creativity as a necessary component in learning for the gifted as well as all children. Creativity will be modeled in class format and teaching strategies.

**EMS 854. Soc & Emotional Dev of Gifted. (3 Credits)**

A. Focuses on the need for affective education of gifted students in a classroom context. Candidates will examine social and emotion issues, review models, and practice differentiated classroom strategies.

**EMS 855. Gifted and Talented Youth. (3 Credits)**

A. Survey of the unique characteristics of gifted and talented youth, methods of identification, and educational needs.

**EMS 856. Curr in Gifted/Talented Educat. (3 Credits)**

A. Models for gifted and talented curriculum development, gifted and talented curriculum projects and teaching strategies, state and national curricular guidelines for gifted and talented instruction, program delivery options, and technological support are major topics.

**EMS 857. Model Prog-Gifted/Talented Edu. (3 Credits)**

A. Examination of school and district wide programs for gifted and talented students including program delivery options, staff development, and development of critical and creative thinking skills.

**EMS 858. Practicum-Gifted & Talented Ed. (3 Credits)**

A. Prerequisites: EMS 855, 856, 857. Supervised teaching experience with gifted/ talented students. Provides students opportunities to apply knowledge and skills in classroom settings. Students will participate in program planning, implementation, and evaluation.

**EMS 861. Environmental Educ Essentials. (3 Credits)**

A. Exploration of the philosophy, historical development, resource identification and curriculum development of environmental education.

**EMS 863. Teaching Environmental Educ. (3 Credits)**

A. Appropriate methods and materials for effective environmental education in a variety of settings.

**EMS 864S. Teaching in the Outdoors. (3 Credits)**

A. Basic principles of outdoor teaching combined with outdoor skills and an environmental issue service-learning investigation. Due to its content, this will be taught in workshop format during the summer. Service learning activities required.

**EMS 868. Inst Tech & Mat for St Rdg Dif. (3 Credits)**

A. Prerequisite: ELE 871, EME 873, EMG 806, or ESE 884. Methods, materials and techniques appropriate for correction of reading problems.

**EMS 870. Literacy Consulting. (3 Credits)**

A. An introduction to the roles, skills, responsibilities and dispositions needed for successful literacy consulting in grades 4-12.

**EMS 871. Literacy Consulting Practicum. (3 Credits)**

A. Prerequisite: EMS 870. Supervised experiences for literacy consultants working in schools to provide instructional support and professional development in the language arts to teachers across the curriculum.

**EMS 873. Trends & Issues in ELA. (3 Credits)**

(3) I. A study of current trends and issues in the six language arts: reading, writing, speaking, listening, viewing, and visually representing. Current theories, relevant research and practical applications are considered in relation to language arts in the K-12 classroom. (Minimum of 10 clinical hours required.)

**EMS 874. Disciplinary Literacy. (3 Credits)**

I II. Prerequisites: EGC 820 and EGC 830. Corequisite: CED 830. Emphasis on developmental and content area reading skills, appraisal of content reading abilities, appropriate materials, instructional strategies and assessment.

**EMS 875. Literacy Assess and Instruct. (3 Credits)**

A. Prerequisite: ELE 871, or, EMG 806, or by departmental approval. Theory and implementation of assessment and instruction teaching students with a range of abilities in reading. Emphasis on assessing types and degree of reading strengths and needs, identifying contributing factors., and planning/implementing instruction to meet students' diverse needs and skills. Field/Clinical Experiences: 10 hours.

**EMS 876. Lit., Lead. & Advocate. (3 Credits)**

(3) II. Prerequisites: EMS 875. A culminating course for the program, this is the study of models of literacy leadership (e.g., coaching, mentoring) and how to create need-based literacy plans to assist practicing teachers in P-12 literacy. Field/Clinical Experiences: 20 hours.

**EMS 878. Mathematics Assessment P-12. (3 Credits)**

(3) A. Theory of application of a constructivist approach to mathematics assessment. Emphasis on accessing types and degree of math disabilities, identifying how children construct mathematical knowledge, and planning/implementing instruction to address students' needs.

**EMS 880. Early Ele/Middle Grd/Second Ed. (3 Credits)**

A. Prerequisite: teaching experience. For school and college personnel concerned with improving student teaching experiences.

**EMS 889. Specialist in Ed Capstone. (3 Credits)**

A. Prerequisites: ETL 802 or EDL 810 and EDL 811. Completion of minimum of 24 hours in Ed.S. program. Multimedia presentation of a research project related to. Reflections on individual professional development related to Advanced Kentucky Teacher Standards.

## ENG English (ENG)

**ENG 080. Academic Reading and Writing I. (3 Credits)**

A. This course emphasizes integration of skills and strategies for academic reading and writing, including comprehension, vocabulary, fluency and development, and the conventions of academic texts. Taken by referral only. 3 Lec/2 Lab.

**ENG 085. Academic Reading & Writing II. (3 Credits)**

A. This course emphasizes integration of skills and strategies for academic reading and writing, including reading critically, writing analytically, and reading and writing to learn. Taken by referral only. 3 Lec/2 Lab.

**ENG 090. Basic Writing. (3 Credits)**

I, II. Focuses on academic writing. Provides strategies for improving content, organization, voice, reading to write, and editing from sentences to essays. Exit exam required. ACT English subscore 14 or lower.

**ENG 090I. Basic Writing. (3 Credits)**

For international students only. A remedial course in composition emphasizing selected sentence basics and fundamental rhetoric to prepare students for ENG 095I and ENG 101I. Exit exam required. Taken by referral or placement. Credit earned is institutional and cannot be used for graduation.

**ENG 095I. Developmental Composition. (3 Credits)**

For international students only. An introductory course in composition emphasizing selected sentence basics and rhetoric for short essays and reports, to prepare students for ENG 101I. Exit exam required. Taken by referral or placement. Credit earned is institutional and cannot be used for graduation.

**ENG 095R. Devel Read and Writ II. (3 Credits)**

Prerequisite: ENG 090 or ACT English and Reading Sub-Scores of 16 or above. Focuses on critical reading and academic writing. Provides strategies for comprehending and analyzing source material and integrating sources with written work, with an emphasis on thesis development, organization, voice and style.

**ENG 099. Intensive Writing Review. (3 Credits)**

A. An intensive review of writing skills with special emphasis on audience analysis, invention of ideas, composing, writing, and editing strategies for the production of a substantial portfolio. Taken only by recommendation of college dean. Institutional credit when exit level attained; cannot be used for graduation.

**ENG 100. English for Non- Native Speakers. (3 Credits)**

A. Review and practice of English for non-native speakers. Review of English grammar with intensive practice of academic language skills in listening, speaking, reading, and writing. Required of non-native speakers on basis of department placement exam. 2 Lec/2 Lab.

**ENG 101. Reading, Writing, and Rhetoric. (3 Credits)**

(3) I, II. Prerequisite: ENG 090 or an ACT subscore of 18 or higher ACT English subscore of 18 or higher and ACT Reading subscore of 20; or SAT writing score of 430 or higher and SAT reading score of 470 or higher; or SAT Evidence-Based Reading & Writing score of score of 480 or higher. A writing course developing critical reading skills which integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for different audiences. Credit will not be awarded to students who have credit for ENG 101R. Gen. Ed. E-1A [WC].

**ENG 101R. Reading, Writing, and Rhetoric. (4 Credits)**

(3) I, II. Prerequisite: SAT Evidence-Based Reading & Writing score of 430-479, or ACT score of 14-17 on English and 14-19 on Reading. Additionally, students with an English ACT score of 18 or higher will be placed in ENG 101R if their ACT Reading Score is 14-19. A writing course developing critical reading skills while integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for different audiences. Students are required to meet 1 hour per week outside of class time with a Course Embedded Consultant. Students must pass ENG101R with an A to move into ENG102; students passing ENG101R with a B or C must enroll in ENG102R. Students who fail the class will retake ENG 101R. Credit will not be awarded to students who have credit for ENG 101. General Education Element 1A [WC].

**ENG 101RZ. Rding Wrting & Rhtrc Support. (4 Credits)**

(3) I, II. Prerequisite: ACT score of 17 on English and 17-19 on Reading. Additionally, students with an ACT score of 18 or higher will be placed in ENG 101R if their ACT Reading Score is 15-19. A writing course developing critical reading skills while integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for different audiences. Students who fail the class will retake ENG 101R. Credit will not be awarded to students who have credit for ENG 101. General Education Element 1A.

**ENG 101Z. Reading, Writing, & Rhetoric. (3 Credits)**

(3) I, II. A writing course developing critical reading skills which integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for different audiences. Gen. Ed. E-1A; Gen. Ed. IA [WC].

**ENG 102. Research, Writing, and Rhetoric. (3 Credits)**

(3) I, II. Prerequisite: ENG 101 (C) or ENG 101R (A). A writing course refining component of ENG 101/101R studying information sources and research methods; accessing, critically reading, evaluating, integrating, and documenting primary and secondary sources; utilizing information technology for inquiry, analysis, and argumentation. Credit will not be awarded for both ENG 102 and ENG 102R. Gen. Ed. E-1B [WC].

**ENG 102R. Research, Writing, and Rhetoric. (4 Credits)**

(4) I, II. Prerequisite: ENG 101R (C). A writing course refining components of ENG 101R studying information sources and research methods; accessing, critically reading, evaluating, integrating, and documenting primary and secondary sources; utilizing information technology for inquiry, analysis, and argumentation. Students are required to meet 1 hour per week outside of class time with a Course Embedded Consultant. Students who fail the class will retake ENG 102R or ENG 102RZ. Credit will not be awarded to students who have credit for ENG 102. Gen. Ed. E-1B [WG].

**ENG 102RZ. Resrch, Writg, & Rhetoric Supp. (4 Credits)**

(4) I, II. Prerequisite: ENG 101R (C). A writing course refining components of ENG 101R studying information sources and research methods; accessing, critically reading, evaluating, integrating, and documenting primary and secondary sources; utilizing information technology for inquiry, analysis, and argumentation. Students are required to meet 1 hour per week outside of class time with a Course Embedded Consultant. Students who fail the class will retake ENG 102R. Credit will not be awarded to students who have credit for ENG 102 or ENG 102R. Gen. Ed. E-1B [WG].

**ENG 105. First Year Writing Seminar. (3,6 Credits)**

I, II. Prerequisite: ACT English subscore of 28 or SAT verbal score of 660 or above. Accelerated writing course emphasizing critical reading and rhetorical approaches for various purposes and audiences. Students will access, evaluate, integrate, and document primary and secondary sources while utilizing information technology for inquiry, analysis, and argumentation. Proficiency exam required. Students graded "A" or "B" will receive six hours credit for ENG 105; students with "C" or "D" will receive three hours credit for ENG 105 and must take ENG 102. Gen. Ed. Element 1A; Gen. Ed. IA (IB) [WC].

**ENG 106. Writing Workshop:\_\_\_\_\_. (1 Credit)**

I, II. Prerequisite: ENG 101, 101R, 105, or departmental approval. A course intended to develop writing abilities through practice in writing processes for varied topics; reading and discussion of rhetoric, grammar, etc. appropriate for the selected topic. Primarily individualized instruction in workshop conditions. May be retaken with different topics to a maximum of three credit hours.

**ENG 110. Introduction to Literature. (3 Credits)**

I, II. Prerequisite: completion of developmental reading and writing requirements. Developing reading strategies to better engage with and appreciate a range of literacy texts from a variety of cultures and historical periods. Gen-Ed. E-3B [AH].

**ENG 200. Topics in English:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Introduction to areas of literature, writing, and language use through selected topics. Designed primarily for non-English majors; may be retaken with different topics to a maximum of six hours.

**ENG 208W. Literature and the Environment. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Writing-intensive study of the human-environmental connection as expressed in literature, including attention to environmental sustainability and personal responsibility to the natural world within larger social and ethical values. Credit will not be awarded for both ENG 208W and ENV 208W. Gen Ed. Element 3B.

**ENG 210. Enjoying Literature. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. Understanding and enjoying the distinctive aesthetic qualities, forms and meanings of literary works within ethical and cultural contexts. Credit will not be awarded to students who have credit for ENG 210W. Gen. Ed. Element 3B.

**ENG 210W. Enjoying Literature. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. Understanding and enjoying the distinctive aesthetic qualities, forms and meanings of literary works within ethical and cultural contexts. Credit will not be awarded to students who have received credit for ENG 210. Gen. Ed. Element 3B.

**ENG 211. Survey of World Literature I. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. Selected readings from masterpieces of world literature from ancient times through the Renaissance. Credit not awarded for students with credit for ENG 211W. Gen. Ed. Element 3B.

**ENG 211W. Survey of World Literature I. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. Selected readings from masterpieces of world literature from ancient times through the Renaissance. Credit not awarded for students with credit for ENG 211. Gen. Ed. Element 3B.

**ENG 212. Survey of World Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. Selected readings from masterpieces of world literature from the 17th century to the present. Credit will not be awarded to students who have credit for ENG 210W. Gen. Ed. Element 3B.

**ENG 212W. Survey of World Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. Selected readings from masterpieces of world literature from the 17th century to the present. Credit will not be awarded to students who have received credit for ENG 212. Gen. Ed. Element 3B.

**ENG 242. Introduction to a Genre:\_\_\_\_\_. (2 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Readings in either the novel, poetry, or short story; special emphasis on understanding and enjoying the literature. Designed primarily for non-English majors; may be retaken with different topics to a maximum of six hours.

**ENG 299W. Research in History & English. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or 105 (B) or HON 102. Cross listed with HIS 299W. Collaboration focusing on disciplinary research methodology and recognizing disciplinary differences in approach by exploring a particular theme from various perspectives. Information literacy, reflection, research, and writing emphasized. This course will not be accepted for History or English non-teaching or teaching major requirements. May be retaken for a maximum of 6 credits, provided the topic differs each time. Credit will not be awarded for both ENG 299W and HIS 299W.

**ENG 300. Introduction to Technical and Professional Writing. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Introductory course in principles of effective writing for professions and technical fields. Experience in writing with technology for various purposes and audiences relevant to students' career interests. Special sections arranged in cooperation with professional programs. Credit will not be awarded for both ENG 300 and 300S.

**ENG 300S. Intro to Tech/Prof Writing. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. Introductory course in principles of effective writing for professions and technical fields. Experience in writing with technology for various purposes and audiences relevant to students' career interests. Students will work on writing projects with schools or other non-profit organizations. Credit will not be awarded for both ENG 300 and ENG 300S.

**ENG 301. Advanced Composition. (3 Credits)**

I, II. Prerequisites: ENG 102 or 105 or HON 102. Refinement of writing skills; application of rhetoric in expository and argumentative writings; planning and writing a research paper.

**ENG 302. Principles of Literary Study. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. Introduction to the genres of poetry, short fiction, and drama, as well as to the traditional literary devices, the major critical approaches, and several bibliographical tools.

**ENG 303. Advanced Composition for Teachers. (3 Credits)**

I, II. Prerequisites: ENG 101 and 102 (or 105). Develops students as writers and as teachers of writing through experiences in writing workshop, portfolio assessment, teaching strategies for writing, and career-oriented inquiry in theoretical context. Credit will not be awarded to students who have credit for ENG 301.

**ENG 306. Introduction to Creative Writing. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Introduction to fundamentals of short story, poetry, play, or personal essay writing.

**ENG 308. Autobiographical Literature. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Discussion of American, British, Continental, and non-Western autobiographies and modern theories of autobiographical writing.

**ENG 310. Introduction to English Studies. (3 Credits)**

Prerequisites: ENG 102 or 105 (B) or HON 102. Introduces students to broad areas of English as a discipline; literature; composition and rhetoric, creative writing, and technical writing. Course will culminate in a final research project. Credit will not be awarded to students who have credit for ENG 302.

**ENG 311. Early British Literature Survey. (3 Credits)**

Prerequisites: ENG 102 or 105 (B) or HON 102. A study of selected significant texts, genres, historical trends, and cultural influences in British literature from its beginnings to the 17th century. Credits will not be awarded to students who have credit for ENG 352.

**ENG 312. British and American Literature Survey I. (3 Credits)**

Prerequisites: ENG 102 or 105 (B) or HON 102. A study of selected significant texts, genres, historical trends, and cultural influences in British and U.S. literature in English from the 17th to the 19th centuries.

**ENG 313. British and American Literature II. (3 Credits)**

Prerequisites: ENG 102 or ENG 105 (B), or HON 102. A study of selected significant texts, genres, historical trends, and cultural influences in British and U.S. literature in English from the 19th century to the present.

**ENG 334. Modern Poetry. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Survey of representative British and American poets from Hopkins and Dickinson to the present.

**ENG 335. Modern Drama. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of representative modern plays from Ibsen to the present. Gen. Ed. IIIA or VII (AH). Credit will not be awarded for both ENG 335 and ENG 335W. Gen. Ed Element 3A.

**ENG 335W. Modern Drama. (3 Credits)**

(3). Prerequisite: ENG 102 or 105 (B) or HON 102. Study of representative modern plays from Ibsen to the present. Gen. Ed. Element 3A. Credit will not be awarded for both ENG 335W and ENG 335.

**ENG 337. The Bible as Literature. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of selected stories and poetry from the Bible from distinctly literary perspectives.

**ENG 340. Mythology. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Study of selected myths through historical, psychological, and literary approaches.

**ENG 343. Science Fiction. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. A survey of science fiction from Mary Shelley to the present.

**ENG 344. Mystery and Detective Fiction. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. History of mystery and detective fiction. Study of the genre's basic characteristics as well as its cultural ramifications.

**ENG 345. Literature and Film. (3 Credits)**

A. Cross listed as COM 345. Prerequisite: ENG 102 or 105 or HON 102. An examination of the relationship between film and literature through a comparative study of the stylistic and technical elements of the two media. Credit will not be awarded to students who have credit for COM 345.

**ENG 346. Fantasy Literature. (3 Credits)**

(3) A. Prerequisite: ENG 102, 105(B), or HON 102. A study of selected works of fantasy from the nineteenth century to the present. May include study of subgenres such as *kunstmärchen*, epic fantasy, "weird" fiction, dark fantasy/horror and magical realism.

**ENG 347. Special Studies in English: \_\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Specialized study of selected topics not available in more traditional course offerings. Designed primarily for English majors/minors. May be retaken with different topics to a maximum of six hours.

**ENG 349. Applied Learning in English. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**ENG 349A. Cooperative Study: English. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**ENG 349B. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349C. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349D. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349E. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349F. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349G. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 349H. Cooperative Study: English. (0.5-8 Credits)**

Work in placements related to academic studies.

**ENG 350. American Literature I. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. A study of selected works by representative authors reflecting the chronological development of American literature from its beginnings to 1865.

**ENG 351. American Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 or HON 102. A study of selected works by representative authors reflecting the chronological development of American literature from 1865 to the present. Credit will not be awarded to students who have credit for ENG 351W.

**ENG 351W. American Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. A study of selected works by representative authors reflecting the chronological development of American literature from 1865 to the present. Credit not awarded for students with credit for ENG 351.

**ENG 352. English Literature I. (3 Credits)**

I. Prerequisite: ENG 102 or 105 or HON 102. A study of selected works by representative authors reflecting the chronological development of English literature from its beginnings through the eighteenth century.

**ENG 353. English Literature II. (3 Credits)**

II. Prerequisite: ENG 102 or 105 or HON 102. A study of selected works by representative authors reflecting the chronological development of English literature from the Romantic period to the present. Credit will not be awarded to students who have credit for ENG 353W.

**ENG 353W. English Literature II. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102. A study of selected works by representative authors reflecting the chronological development of English literature from the Romantic period to the present. Credit will not be awarded to students who have credit for ENG 353.

**ENG 359. Kentucky Literature. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Study of Kentucky's literary tradition from its beginning to the present; emphasis on Elizabeth Madox Roberts, Allen Tate, Harriet Arnow, and Robert Penn Warren.

**ENG 360. Literatures of Africa. (3 Credits)**

A. Cross listed as AFA 360. Prerequisite: ENG 102, 105 (B), or HON 102. Survey of the genres and components of African literature, oral and written; study of how key concepts in African thought, culture and experiences are reflected in the literatures composed by writers from Africa or of African origin. Credit will not be awarded to students who have credit for AFA 360. Gen. Ed. Element 6.

**ENG 361. African-American Literature. (3 Credits)**

A. Cross listed as AFA 361. Prerequisite: ENG 102, 105 (B), or HON 102. Survey of selected works of African-American literary traditions. Credit will not be awarded to students who have credit for AFA 361 or ENG 342. Gen. Ed. Element 6.

**ENG 362. North American Native Literature. (3 Credits)**

A. Prerequisite: ENG 102, 105 (B), or HON 102. A study of representative literature written by North American Native authors. Gen. Ed. Element 6.

**ENG 363. Latin American/Latino Literature. (3 Credits)**

A. Prerequisites: ENG 102 or ENG 102R or 105 (B) or HON 102. Survey of Latin American literature in translation and selected works by Latina/o writers.

**ENG 364. Women's Literature. (3 Credits)**

A. Cross listed as WGS 364. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of selected literature by women writers from varying cultures, genres, and periods. Credit will not be awarded to students who have credit for WGS 364 or ENG 535. Gen. Ed. Element 6.

**ENG 365. Appalachian Literature. (3 Credits)**

(3) I. Cross-listed as APP 365. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of selected Appalachian artists, with emphasis on interdisciplinary, cultural, and aesthetic concerns raised in works by writers such as Arnow, Berry and Still. Credit will not be awarded to students who have credit for : ENG 365W, APP 365, or APP 365W. Gen. Ed. Element 3B and 6.

**ENG 365W. Appalachian Literature. (3 Credits)**

Cross-listed as APP 365W. Prerequisite: ENG 102 or 105(B) or HON 102. Writing-intensive study of selected Appalachian artists, with emphasis on interdisciplinary, cultural, and aesthetic concerns raised in works by writers such as Arnow, Berry, and Still. Credit will not be awarded to students who have credit for ENG 365, APP 365 or APP 365W. Gen. Ed. Element 3B and 6.

**ENG 366. Queer Theory and Literatures. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Examination of trends in Queer Theory; study of major contributors to the field such as Foucault, Butler, and Sedgwick; application of theoretical models to literary and cinematic texts. Gen. Ed. Element 6.

**ENG 367. African Caribbean Literatures. (3 Credits)**

A. Cross listed as AFA 367. Prerequisites: ENG 102 or 105 (B) or HON 102. A study of selected literatures written by Caribbean writers of African descent. Credit will not be awarded for both AFA 367 and ENG 367.

**ENG 374. Shakespeare at War. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. An exploration of the causes and consequences of war in a selection of Shakespeare's plays. Students will also examine how political power is gained, kept, and lost through warfare in these plays.

**ENG 386W. War & Peace in Lit Since 1900. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. An exploration of themes of war and peace in literature since 1900, structured chronologically, beginning with World War I and moving into the contemporary world.

**ENG 400. Advanced Technical Writing and Document Production. (3 Credits)**

A. Prerequisites: ENG 102 or 105 or HON 102; ENG 300. Advanced in technical communication. Emphasis on theories of technical writing and writing with technology, document development using electronic literacies.

**ENG 402. Crit. Theory & Research Meth. (3 Credits)**

A. Prerequisite: ENG 310. Introduction to literary/critical theory with an historical framework, and to research methods for the academic professional. Particularly recommended for students planning to go on to graduate school.

**ENG 405. Introduction to Composition. (3 Credits)**

A. Prerequisite: ENG 310. An introductory course surveying theories of composition and applying these theories to the instruction of composition.

**ENG 406. Topics in Creative Writing:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 306. Specialized study of a selected genre (e.g., poetry, short story, screenplay) or approach to creative writing. Theory and practice. May be retaken to a maximum of nine hours provided each topic is different.

**ENG 407. Poetry Writing Workshop. (3 Credits)**

A. Prerequisite: ENG 306. Advanced study in the techniques of writing poetry.

**ENG 408. Advanced Fiction Workshop. (3 Credits)**

A. Prerequisite: ENG 306. Advanced writing workshop in fiction, with supplementary reading in genre. Weekly writing and critiques of student work. Analysis of the writing market.

**ENG 409. Creative Nonfiction Workshop. (3 Credits)**

A. Prerequisite: ENG 306 or departmental approval. Theory, models, and advanced practice in such areas as autobiographical writing, the personal essay, on assignment research projects, and interviewing techniques.

**ENG 410. Grammar, Traditional and Modern. (3 Credits)**

A. Prerequisite: ENG 102 or 105 or HON 102. Grammatical structure of American English and present-day terminology used to describe that structure; analysis of the linguistic and grammatical theories underlying contemporary grammar texts.

**ENG 420. Stylistics, Editing, Publishing. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Development of prose style through analysis, practice, and editing. Fundamentals of online and hard-copy publishing, including surveying the markets, and preparing and submitting manuscripts.

**ENG 430. Dramatic Literature. (3 Credits)**

A. Cross listed as THE 430. Prerequisite: ENG 310 or departmental approval. Survey of the major periods and genres of world dramatic literature, from the Greeks to the present; selected readings from the major playwrights, critics, and theorists. Credit will not be awarded to students who have credit for THE 430.

**ENG 440. Young Adult Literature. (3 Credits)**

A. Prerequisite: ENG 310 departmental approval. A survey of literature for young adults intended for Secondary English Teaching majors. Critical approaches will be applied to contemporary and significant early texts. Pedagogical approaches will be modeled.

**ENG 452. American Romanticism. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of the 19th century Romantic movement, concentrating on selected major authors through Whitman.

**ENG 454. American Realism. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of the American Realistic movement from the late nineteenth century through the 20th century, concentrating upon selected major authors from Twain to the present.

**ENG 455. American Fiction Since 1900. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Survey of representative American novels and short stories of the 20th century.

**ENG 470. Chaucer and His Age. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of selections from Chaucer, the Pearl poet, Langland, Malory, medieval drama, and lyrics.

**ENG 472. Renaissance Literature. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of Tudor poetry and prose and Elizabethan and early Stuart drama, exclusive of Shakespeare.

**ENG 474. Shakespeare. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Study of Elizabethan England as a background for Shakespeare's works; extensive reading of several plays; intensive reading of selected drama and poetry.

**ENG 476. Milton and His Age. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. A study of Milton's works, Cavalier and Metaphysical Poetry, the masque, and prose of the period.

**ENG 478. Restoration and Eighteenth Century Literature. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. British poetry, prose, and drama of the Restoration and 18th century with emphasis on Dryden, Swift, Pope, and Johnson.

**ENG 480. Romantic Literature. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Survey of British poetry, essays, and fiction of the Romantic period.

**ENG 482. Victorian Literature. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Survey of British poetry, essays, and fiction of the Victorian period.

**ENG 485. British Fiction Since 1900. (3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Survey of representative British novels and short stories of the twentieth and the twenty-first centuries.

**ENG 490. Creative Writing Capstone. (3 Credits)**

I, II. Prerequisites: ENG 306 and at least 3 hours from the following courses: ENG 406, 407, 408, 409, 502, 503, 504. Portfolio creation, assessment, and career guidance.

**ENG 491. Technical Writing Capstone. (3 Credits)**

I, II. Prerequisites: ENG 300 and junior status. Provides professional technical writing experience by placing students in appropriate positions with area businesses and industries.

**ENG 492. English Literature Capstone. (3 Credits)**

A. Prerequisites: senior status. A review of literary figures, periods, and concepts. Study of techniques of literary criticism and/or theory. Major revision of an analytical paper. Discussion of graduate school and career options in the major.

**ENG 495. Independent Study. (1-3 Credits)**

A. Prerequisite: ENG 310 or departmental approval. Individual study and/or research on a problem pertaining to literature or language. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ENG 499. Senior Capstone Experience. (1 Credit)**

A. Prerequisites: senior status and departmental approval. A service learning project within the University community for all English majors, involving planning and participating in the Association of English Majors Annual Conference, and reflecting on that professional experience.

**ENG 500. Topics in Professional Writing: \_\_\_. (3 Credits)**

A. Prerequisites: ENG 310 and one additional upper level ENG course; or departmental approval. Familiarizes students with visual communication as applied in popular culture, business, science, and technology. Students learn visual design principles, and apply them by creating a variety of visual projects, from icons to infographics.

**ENG 502. Advanced Creative Writing. (3 Credits)**

A. Prerequisites: ENG 306. Special topics and workshop course for advanced or specialty genres and for students who desire to have their manuscripts critiqued. Guest lectures by and discussion with writers in residence. May be taken with different topics for a maximum of six hours.

**ENG 503. Creative Writing Workshop. (3 Credits)**

SUMMER ONLY. A. Prerequisites: ENG 306 or departmental approval. Held in conjunction with Bluegrass Writers Studio's eight-day summer residency on EKU-Richmond campus, followed by asynchronous online work. Includes craft lectures, panels, and readings by visiting writers. Students must submit an original creative writing manuscript before the residency.

**ENG 510. Introduction to Linguistic Theory. (3 Credits)**

A. Prerequisites: ENG 102 or 105 or HON 102, and one additional ENG course. An introduction to current linguistic theory and practice.

**ENG 515. English as a Second Language. (3 Credits)**

A. Prerequisites: ENG 102 or 105(B) or HON 102; or departmental approval. Study of theories advanced to explain the learning of English as a second language.

**ENG 520. History of the English Language. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or 105 or HON 102, and one additional upper level ENG course. Study of the history of the English language in terms of social, historical, and linguistic forces from which it developed into modern English, with an emphasis on English in contemporary contexts.

**ENG 530. Topics in a Genre:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 310 and one additional upper level literature course; or departmental approval. Study of a particular genre or comparison of related genres. These can include traditional literary genres contemporary popular literature genre genres; or digital multimodal genres. May be retaken with different topics to a maximum of six hours.

**ENG 550. Topics in Literature:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 310 and one additional upper level literature course or departmental approval. An intensive study of a particular aspect of textual production, transmission, or reception such as a movement, an author, historical contexts, or contemporary directions/experiments. May be retaken with a different topic to a maximum of six hours.

**ENG 700. Topics in Professional Writing. (3 Credits)**

A. Familiarizes students with visual communication as applied in popular culture, business, science, and technology. Students learn visual design principles, and apply them by creating a variety of visual projects, from icons to infographics.

**ENG 702. Topics in Creative Writing. (3 Credits)**

A. Special topics and workshop course for advanced or specialty genres and for students who desire to have their manuscripts critiqued. Guest lectures by and discussion with writers in residence. May be taken with different topics for a maximum of six hours.

**ENG 703. Creative Writing Residency. (3 Credits)**

SUMMER ONLY. A. Prerequisite: departmental approval. Held in conjunction with Bluegrass Writers Studio's eight-day summer residency on EKU-Richmond campus, followed by asynchronous online work. Includes craft lectures, panels, and readings by visiting writers. Students must submit an original creative writing manuscript before the residency. Students having received credit for this course at the 500 level may take this course for a maximum of six hours, including the undergraduate credit.

**ENG 710. Intro to Linguistic Theory. (3 Credits)**

A. An introduction to current linguistic theory and practice.

**ENG 715. English as a Second Language. (3 Credits)**

A. Prerequisite: Study of theories advanced to explain the learning of English as a second language.

**ENG 720. History of English Language. (3 Credits)**

A. Study of the history of the English language in terms of social, historical, and linguistic forces from which it developed into modern English, with an emphasis on English in contemporary contexts.

**ENG 730. Topics in a Genre:\_\_\_\_\_. (3 Credits)**

A. Study of a particular genre or comparison of related genres. These can include traditional literary genres contemporary popular genres; or digital multimodal genres. May be retaken with different topics to a maximum of six hours.

**ENG 750. Topics in Textual Studies:\_\_\_\_. (3 Credits)**

A. An intensive study of a particular aspect of textual production, transmission, or reception such as a movement, an author, historical contexts, or contemporary directions/experiments. May be retaken with a different topic to a maximum of six hours.

**ENG 800. Seminar on Writing Pedagogy. (3 Credits)**

I. An introduction to best practices in writing studies with practical application, problem solving, and research especially relevant to college-level teaching and consulting.

**ENG 801. Introduction to Graduate Study. (3 Credits)**

I. Introduction to professional expectations, issues, techniques, and tools of graduate-level study and research in disciplines related to literacy, written communication, and textual criticism. Must be taken before 12 hours earned in the program.

**ENG 803. Approaches to Creative Writing. (3 Credits)**

A. Study in depth of the various approaches to pedagogy of creative writing (e.g., Atelier, Great Works, Workshop) culminating in a major project demonstrating both mastery and synthesis of the approaches covered.

**ENG 804. Seminar in Creative Writing:\_\_\_\_. (3 Credits)**

A. Writing and study in depth of a particular genre (e.g., fiction, poetry, drama) resulting in a coordinated project. May be retaken with different topics to a maximum of six hours, only upon advisor recommendation.

**ENG 805. Writing Prjct Summer Institute. (1-6 Credits)**

A. Prerequisite: Departmental approval. Collaborative, intensive experience in writing and teaching writing, focusing on writing process and development of best practice pedagogy for writing and literacy instruction in all content areas and grade levels, K-16.

**ENG 806. Topics in Modern Rhetoric:\_\_\_\_. (3 Credits)**

A. Study in depth of selected major concepts, theories, research and/or pedagogical approaches in twentieth-century rhetoric and writing studies, with attention to application. May be retaken with a different topic to a maximum of six hours.

**ENG 807. Adv Stdy Lang: Knowledge & Use. (3 Credits)**

A. Prerequisite: ENG 510/710 or equivalent. An advanced course in language knowledge (competence) and use (performance) from the perspective of language theory, focusing on aspects of language acquisition and literacy development.

**ENG 808. Studies in Modern Composition. (3 Credits)**

A. An advanced course in modern writing theories, suitable for students of writing and for students interested in writing professions; includes theory, practice, and administrative application.

**ENG 809. Seminar in Scholarship & Writ.. (3 Credits)**

A. Study of the range of scholarly tools and methods for research and writing, including print and electronic sources. Special emphasis on practical application to a specific research project.

**ENG 810. Advanced Grammar. (3 Credits)**

(3) A. In-depth analysis of linguistic and grammatical theories informing contemporary style rules in academic and professional contexts.

**ENG 812. Sem in Comp Resrch Methods. (3 Credits)**

A. Study of research methodology for rhetoric and composition, focused on gathering primary and secondary source material, ethics, collaboration, and reporting findings. Emphasis on practical application to a specific research project conduct as a class.

**ENG 814. Writing Across the Curriculum. (3 Credits)**

(3) A. A study of how literacy and writing programs function at the institutional level in higher education. Special focus on first-year writing, writing center, and general education administration practices.

**ENG 827. History of Rhetoric. (3 Credits)**

A. A study of theories of rhetoric over time, with a focus on rhetoric's application to writing studies.

**ENG 830. Textual Studies Seminar. (3 Credits)**

A. An intensive study of selected texts. May include examinations of textual production, applications, and appropriations in popular and political contexts, especially as those phenomena occur within transcultural, transhistorical, and transmedial flows. May be retaken with different topics to a maximum of six hours.

**ENG 833. Multimodal Criticism. (3 Credits)**

A. Study of selected major critical approaches (such as Multimodal Criticism, New Criticism, Marxist Criticism, Psychoanalytic Criticism, Deconstruction, New Historicism, Feminist Criticism, LGBTQ Criticism) and their application to multimodal texts.

**ENG 839. Professional English Project. (0.5-6 Credits)**

A. Prerequisite: Departmental approval. Work under faculty and field supervisors in cooperative placement related to literacy, writing, or media studies. One to six hours credit per semester or summer session. Minimum of eighty hours work required for each academic credit. Maximum of three hours credit may apply toward an M.A. degree in English. Credit will not be awarded for both ENG 839 and ENG 898.

**ENG 839B. Cooperative Study in English. (1-6 Credits)**

Work under faculty and field supervisors in cooperative placement related to English graduate studies. Maximum of three hours credit can apply toward MA in English degree.

**ENG 840. Foundations in ProTech Writing. (3 Credits)**

(3) A. Focuses on workplace writing in networked environments for technical, scientific, business, and other professional contexts. Emphasizes context and user analysis, data analysis and display, project planning, document management, usability, ethics, and research.

**ENG 850. Crit. Studies Contemp. Texts. (3 Credits)**

A. Study in depth of texts produced after 1840, paying attention to technological and socioeconomic contexts as well as poetic and rhetorical trends. May be retaken with different topics to a maximum of six hours, only upon advisor recommendation.

**ENG 860. Topics in Reading & Teaching. (3 Credits)**

A. Study of topics related to reading and teaching literature. May focus on informational, narrative, and/or poetic texts, and should address engaging with texts in digital, oral, and print modes. Designed for current and prospective 5-12 teachers, as well as students interested in post-secondary and professional instructional environments. (Counts towards MA, MAT, MAED, and Extension Certificate). May be retaken with different topics to a maximum of six hours, upon advisor approval.

**ENG 863. Writing & Teaching Writing. (3 Credits)**

A. Study of writing practices and writing instruction to develop K-16 students' writing skills and strategies. Designed for current and prospective K-12 teachers, as well as students interested in post-secondary and professional instructional environments. (Counts toward MA, MAT, MAED, Extension Certificate.) Students who already have credit for ENG 805 will not receive credit for ENG 863.

**ENG 870. Seminar in Medieval Literature. (3 Credits)**

A. Study of texts and textual production prior to the Industrial Revolution. May include syntheses with contemporary texts or with applications and appropriations in modern popular and political contexts. May be retaken with different topics to a maximum of six hours.

**ENG 880. Seminar in 20th Cen Brit Lit. (3 Credits)**

A. A study in depth of several major authors, or of a significant literary movement, in modern British literature. May be retaken with different topics to a maximum of six hours, only upon advisor recommendation.

**ENG 890. Special Studies. (1-3 Credits)**

A. Independent research and writing designed to fulfill individual needs and interests of advanced students. Student must have the graduate special studies proposal approved by faculty supervisor, graduate program coordinator, and department chair. ENG 898 Thesis I. (3) A. ENG 899 Thesis II. (3) A.

**ENG 898. Thesis. (3 Credits)**

A. An intensive research project related to critical textual studies, literacy, or written communication. Students are required to contact faculty and propose course of study in semester prior to taking this course. Credit will not be awarded for both ENG 839 and ENG 898.

## ENR English Reading (ENR)

**ENR 090. Developmental Reading I. (3 Credits)**

I, II. Focuses on improving reading skills by developing vocabulary and active reading strategies such as previewing, organizing information, and identifying main ideas and supporting details. ACT reading subscore 14 or lower.

**ENR 095. Developmental Reading II. (3 Credits)**

I, II. Prerequisite: ENR 090 or ACT reading subscore 15-17. Focuses on developing comprehension skills. Systematic methods for learning college-level vocabulary, analyzing structure and ideas of written materials, and developing critical reading skills.

**ENR 112. Academic Literacy and Learning. (3 Credits)**

I, II. Prerequisite: completion of all ENR developmental requirements and 59 hours or fewer. Provides practice in critical reading of arts and humanities texts. Students examine ways that writers express culturally relevant themes and concepts in various genres. Emphasis on strategic reading, writing, and learning practices. Gen. Ed. VII (AH).

**ENR 115. Learning Dynamics. (1 Credit)**

I, II. Five-week course concentrates on learning techniques for efficient and effective study of college reading materials. Emphasis on learning, storing, and retrieving information. Credit not available for students with credit for ENR 112.

**ENR 201. Vocabulary Development. (2 Credits)**

I, II. Mastery of wide range college-level vocabulary for reading, writing, speaking, and listening. Instruction in using context and Greek and Latin elements to unlock meaning. Includes practice in solving verbal analogies.

**ENR 205. Topics in Reading:\_\_\_\_\_. (1-3 Credits)**

A. Instruction focused on specific areas of reading and studying through selected topics.

## ENV Sustainability & Stewardship (ENV)

### ENV 700. Environmental Studies. (3 Credits)

II. Cross-listed as BIO 700. Students will learn to identify, investigate and evaluate environmental issues as well as plan appropriate action based on their analysis. Credit will not be awarded to students who have credit for BIO700, ENV500 or CNM 800.

### ENV 790. Ecology for Teachers. (3 Credits)

I. Cross-listed as BIO 790. This course introduces ecology and the environment through an interdisciplinary approach beginning with the physical environment progressing to whole ecosystems and onto analyses of ecological sustainability. Classroom strategies and techniques will be modeled. Credit will not be awarded to students who have credit for BIO 790, ENV 590, or CMN 799.

## ENW English Creative Writing (ENW)

### ENW 800. Winter MFA Residency.\_\_\_\_. (3 Credits)

A. Ten to fourteen-day writing residency involving intensive workshops, held off-campus during early January. May be taken up to four times. Topic/content must vary.

### ENW 801. Summer MFA Residency. (3 Credits)

A. Ten to fourteen-day writing residency involving intensive workshops, held off-campus during summer term. May be taken up to four times. Topics/content must vary.

### ENW 810. Topics in Creative Writing:. (3 Credits)

A. ONLINE ONLY. A literature course for creative writers; topic focus determined by instructor. Students take this course four times. Topic/content must vary.

### ENW 820. MFA Writing Workshop. (6 Credits)

A. Online Only. Students work closely with instructor on drafts, revisions, and critical responses to contemporary literature. Students may take course up to four times. Content must vary.

## EPY Educational Psychology (EPY)

### EPY 816. Tests and Measurements. (3 Credits)

I, II. Study of concepts, principles, and methods involved in the use of current tests and inventories. Emphasis on measurement theory underlying construction, use, and interpretation of data from standardized tests.

### EPY 839. Human Growth & Development. (3 Credits)

A. A theoretical examination of human development across the lifespan. Emphasis is placed on developmental norms, diagnosis and interventions over the lifespan found in the population.

### EPY 854. Mental Health & Per Adj. (3 Credits)

A. Study of the personal and social factors related to the development of individual mental health and mental illness.

### EPY 869. Research & Program Evaluation. (3 Credits)

(3) A. This course is designed to provide an understanding of research methods, statistical analysis, needs assessment, and program evaluation principles, models, and applications.

## ESE Secondary Education (ESE)

### ESE 307. Clinical Experiences for Teachers. (1-3 Credits)

A. Prerequisite: departmental approval. Provides clinical experiences such as observations, participation, and tutoring for prospective teachers in locations such as the learning lab. May be retaken to a maximum of six hours.

### ESE 402. Performing Ensembles Teaching Methods. (2 Credits)

(2) II. Cross listed with MUE 402. Prerequisite: Admission to professional education. Co-requisite: CED 400. Pedagogy for instrumental and vocal performing ensembles. Ideas for developing musicianship through hands-on student involvement, ensemble pedagogy and techniques, literature and performance, and incorporation of technology. Credit will not be awarded for both MUE and ESE 402.

### ESE 490. Secondary Curriculum, Classroom Organization and Management. (3 Credits)

II. Prerequisites: EDF 319 or 319W admission to professional education. Emphasis on questions and problems encountered in secondary teaching including classroom management, state and national curriculum trends, and legal issues.

### ESE 507. Problems in Secondary Education. (1-3 Credits)

A. Prerequisite: advisor/ departmental approval. Independent work, special workshops, special topics, or seminars.

### ESE 540. Teaching Art in the Schools. (3 Credits)

I. Cross-listed as AED540. Prerequisites: admission to professional education; EDF 413 (C), EMS 490 (C), CED 400 (B), and 90 hours in the BA in Art Education program. Corequisite: AED 561 and CED 450. Developmentally appropriate materials and methods for teaching art in the schools. Minimum of 40 field/clinical hours. Credit will not be awarded for both ESE540 and AED540.

### ESE 543. Teaching of Language Arts in the Secondary School. (3 Credits)

A. Prerequisites: EDF 413 (C), EMS 490 (C), CED 400 (B), and admission to professional education. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching language arts in secondary schools.

### ESE 549. Teaching Social Studies in the Secondary School. (3 Credits)

I. Prerequisites: EDF 413 (C), EMS 490 (C), CED 400 (B), and admission to professional education. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching social sciences in the secondary school.

### ESE 550. Teaching Mathematics in the Secondary School. (3 Credits)

I. Cross-listed as MAE 550. Prerequisites: EDF 413 (C), EMS 490 (C), CED 400 (B). Admission to professional education. Pre/Corequisites: MAE 475. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching mathematics and computer science in secondary schools. field/clinical hours. Credit will not be awarded to students who have credit for both ESE 550 and MAE 550.

### ESE 552. Teaching of Career and Technical Education in Middle and Secondary Schools. (3 Credits)

I. Prerequisites: EDF 413 (C), EMS 490 (C), CED 400 (B), and admission to professional education. Pre/Corequisites: CTE. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching technology and career and technical education in the middle and secondary schools.

**ESE 553. Family and Consumer Sciences Education Curriculum. (4 Credits)**

I. Prerequisites: Family and Consumer Science Education major, EDF 413 (C), EMS 490 (C), CED 400 (B), and admission to professional education. Corequisite or Prerequisite: EDF413 and SED 402. Corequisite: CED 450. Current curricular trends and methodology for teaching FCS in middle/secondary grades. Program philosophy, legislation, curriculum and assessment.

**ESE 561. Teaching Science in Secondary School. (3 Credits)**

I. Prerequisites: EDF 413 (C), EMS 490 (C), CED 400 (B), and admission to professional education. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching science in secondary schools.

**ESE 566. Teaching of Health and Physical Education in Schools. (3 Credits)**

I, II. Prerequisites: EDF 413 (C), EMS 490 (C) CED 400 (B). Pre/Corequisites: PHE 575, PHE 562. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching health and physical education in secondary schools.

**ESE 573. Teaching Business and Marketing in Middle and Secondary Schools. (3 Credits)**

I. Prerequisites: EDF 413 (C), EMS 490 (C), CED 400 (B), and admission to professional education. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching business education.

**ESE 574. Teaching Reading in the Secondary School. (1-3 Credits)**

A. (1-3) Prerequisites: education core and admission to professional education. Emphasis on developmental and content area reading skills, appraisal of reading abilities, appropriate materials, assessment, and organization of secondary reading programs.

**ESE 579. Music Education: Principles and Practices. (3 Credits)**

I. Cross listed as MUE 579. Prerequisite: EDF 413 (C), EMS 490 (C) CED 400 (B), Admission to Professional Education. Corequisite or Prerequisite: EDF413 and SED 402. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching music education in secondary schools. Credit will not be awarded for students who have credit for MUE 579.

**ESE 587. Teaching of Health Education in the Secondary School. (3 Credits)**

I. Prerequisites: EDF 319 with a minimum grade of "C", admission to professional education. Pre/Corequisites: EDF 413, SED 402. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching health education in secondary schools. Minimum of 40 field/clinical hours.

**ESE 707. Problems in Secondary Edu. (1-3 Credits)**

A. Prerequisite: advisor/ departmental chair approval. Independent work, special workshops, special topics, or seminars.

**ESE 740. Teaching Art in the Schools. (3 Credits)**

I. Cross-listed as AED 740. Prerequisite: admission to the MAT program. Corequisite: CED 840. Developmentally appropriate materials and methods for teaching art in the schools. Maximum number of repeatable hours: 6. Credit will not be awarded for both ESE 740 and AED 740.

**ESE 743. Teach/Lang Arts in the Sec Sch. (3 Credits)**

I. Prerequisites: admission to the MAT program. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching language arts in the secondary school.

**ESE 749. Teach/Soc Stud in the Sec Sch. (3 Credits)**

I. Prerequisites: admission to the MAT program, a "B" or higher in EGC 820 and EGC 830, and a major in the social sciences. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching social sciences in the secondary school.

**ESE 750. Teach of Mat in the Sec Sch. (3 Credits)**

I. Cross-listed as MAE 750. Corequisite: CED 840. Developmentally appropriate materials and methods for teaching mathematics and computer science in secondary schools. Credit will not be awarded to students who have credit for MAE 750 and ESE 750.

**ESE 752. Teach/Car/Tech Edu/midd/Sec Sc. (3 Credits)**

I. Prerequisite: admission to the MAT program. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching career and technical education in the middle and secondary schools.

**ESE 753. Family & Consumer Sci Edu Cur. (4 Credits)**

I. Prerequisite: admission to the MAT program. Corequisite: CED 840. Developmentally appropriate materials and methods for teaching family and consumer sciences education curriculum in the secondary schools.

**ESE 761. Teach Sci in Secondary School. (3 Credits)**

I. Prerequisite: Admission into the secondary MAT program. Co-requisite: CED 840. Designed to introduce prospective teachers to the modern materials and methods of teaching biological and physical science at the secondary level.

**ESE 766. Teach Hlth/Phy Educ in Schools. (3 Credits)**

I. Prerequisites: admission to the MAT program with a major in health and physical education. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching physical education in the secondary schools.

**ESE 773. Teach Bus & Mar in Midd & Sec. (3 Credits)**

I. Prerequisite: admission to the MAT program. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching business and marketing education.

**ESE 779. Music Educ: Principles & Pract. (3 Credits)**

I. Cross-listed with MUE 779. Prerequisites: admission to the MAT program or a music certification program and MUS 750. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching music education in secondary schools. Credit will not be awarded to students who have credit for MUE 779.

**ESE 787. Teach of Health Educ in Sec Sc. (3 Credits)**

I. Prerequisites: admission to the MAT program with a major in health education. Developmentally appropriate materials and methods for teaching health education in secondary schools. Minimum of 96 field/clinical hours.

**ESE 807. Secondary Education:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Independent work, workshops, special topics, or seminars. May be retaken under different subtitles.

**ESE 849. Trends and Mat in Soc Stu. (3 Credits)**

A. Designed to broaden the horizons of secondary social studies teachers. Attention focused on new curriculum materials, simulation, videotaped microteaching. Participants will be actively involved, and consultants will assist in areas of particular interest.

**ESE 850. Trends in Secondary Math. (3 Credits)**

I Crosslisted as MAE 850. An examination of curricular trends, modern programs, appropriate strategies, and innovative materials in secondary mathematics. Credit will not be awarded to students who have credit for MAE 850.

**ESE 863. Secondary School Curriculum. (3 Credits)**

II. Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

**ESE 864. Special Problems in FCS Ed.. (1-3 Credits)**

Formerly: ESE 766. Student must have independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ESE 884. Content Literacy. (3 Credits)**

A. Prerequisites: Admission to Master of Arts in Education or Master of Arts in Teaching or any teacher certification (Rank I or endorsement) programs. Emphasis on developmental and content area reading skills, appraisal of reading abilities, appropriate materials, assessment, and organization of secondary reading program. Minimum of 10 clinical hours.

## ESS Exercise and Sport Science (ESS)

**ESS 180. Lifetime Wellness. (3 Credits)**

I, II. Formerly PHE 180. Interactive learning and laboratory experiences for individual assessment, practice of exercise systems, and improvement of body function. This course offers a comprehensive discussion of the critical areas of health, physical fitness, and wellness. Gen. Ed. VI. Fulfills University Wellness Requirement.

**ESS 190. Wellness Experience: \_\_\_\_\_. (1-2 Credits)**

I, II. Formerly PHE 190. Wellness activities of current interest and/or need for students. May be retaken to a maximum of six hours, if subtitles are different. Credit will not be awarded to students who have received credit for HPR 190.

**ESS 200. Dance and Culture. (3 Credits)**

I. Formerly PHE 200. Introduction to dance and its role as a non-verbal means of expression. The course examines several dance forms and their cultural context including folk, social, ethnic, entertainment, and dance as an art form. Gen. Ed. Element 3A.

**ESS 201. Foundations of Sport Science. (3 Credits)**

I, II. Formerly PHE 201. Introduction to the profession, exposure to professional standards in the field, and historical perspective and philosophies in physical education and sports science.

**ESS 212. Care and Prevention of Athletic and Exercise Injuries. (3 Credits)**

I, II. Formerly PHE 212. Overview of the mechanism, prevention, management, and rehabilitation of athletic and exercise injuries.

**ESS 220. Team Sports I. (2 Credits)**

I. Formerly PHE 220. Basic skills, strategy, rules, officiating, and teaching techniques related to various team sports.

**ESS 224. Team Sports II. (3 Credits)**

I, II. Formerly PHE 224. Prerequisite: Open only to majors in Physical Education, Sports Management, those who have declared a coaching minor, coaching/personal training certificate, or those with departmental approval. Basic skills, strategy, rules, officiating, and teaching techniques related to basketball, volleyball, soccer, and track and field.

**ESS 230. Social Dance I. (1 Credit)**

I, II. Formerly PHE 230. This course introduces the basic movement concepts of social dancing. Rhythm, style and variations of several popular social dances are covered as well as leading and following skills. Some of the dances covered include: swing, salsa, merengue, tango, waltz and hustle.

**ESS 241. Introduction to Swimming. (1 Credit)**

A, I, II. Develop swimming skills and endurance to intermediate level; study of fundamental mechanical principles; basic safety skills; ability to conduct a variety of aquatic activities.

**ESS 250. Modern Dance. (1 Credit)**

I, II. Formerly PHE 250. A beginning level modern dance technique class designed to introduce the student to basic modern dance skills and concepts including some improvisation and choreographic skills. No prior dance experience is necessary. May be retaken up to a maximum of 3 hours.

**ESS 261. Coaching Baseball and Softball. (2 Credits)**

I, II. Formerly PHE 261. Theory and practice in coaching the fundamentals of baseball and softball; team offense and defense.

**ESS 271. Ballet I. (1 Credit)**

A. Formerly PHE 271. A beginning ballet class designed to introduce the student to the art of ballet. Basic barre, center floor and across the floor combinations are performed. Ballet history and terminology are covered through the textbook readings and videos.

**ESS 300. Dance Activities in the Schools. (3 Credits)**

II. Formerly PHE 300. Teaching creative and social forms of dance in the educational and recreational setting.

**ESS 301. Foundations of Coaching. (3 Credits)**

I, II. Formerly PHE 301. Coaching communication, organization, motivational skills, sports skills, tactics, and philosophy. American Sport Education Program (ASEP) certification awarded to those who qualify.

**ESS 305. Individual and Dual Sports I. (3 Credits)**

I, II. Formerly PHE 305. Prerequisite: Open only to majors in Physical Education or Sport Management, those who have declared a Coaching minor, Coaching/Personal Training Certificate, or those with departmental approval. Basic skills, strategy, etiquette, rules, and teaching techniques related to tennis, golf, and badminton.

**ESS 306. Individual and Dual Sports II. (3 Credits)**

A. Formerly PHE 306. Basic skills, strategy, etiquette, rules, and teaching techniques related to archery, bowling, and racquetball.

**ESS 310. Physical Activity and Child Development. (3 Credits)**

II. Formerly PHE 310. Prerequisite: EDF 219 or 219W with a minimum grade of "C". Understanding of motor development and the improvement of human movement through developmental movement activities which are basic to readiness for performance at school.

**ESS 313. Lifeguard Training. (3 Credits)**

I, II. Formerly PHE 313. Prerequisite: ability to pass American Red Cross swimming test. Advanced technique of water safety and rescue; American Red Cross certification awarded to those who qualify.

**ESS 315. Physical Fitness Concepts and Applications. (3 Credits)**

(3) I, II. Formerly PHE 315. Prerequisite: Open only to majors in Physical Education or those with departmental approval. Discussion, demonstration, practice of fitness concepts and various methods of developing physical fitness.

**ESS 320. Biomechanics. (3 Credits)**

I, II. Formerly PHE 320. Prerequisite: BIO 107 or 301. Qualitative study of human movement through anatomical, physiological, and biomechanical concepts; analysis and application.

**ESS 322. Legal Issues in Sport. (3 Credits)**

I. Formerly PHE 322. Prerequisite: GBU204. Legal issues involved in the supervision, management, and business operations of sport. A critical perspective of the American legal system as it applies to sport.

**ESS 323. Movement Concepts and Skill Themes. (3 Credits)**

I. Formerly PHE 323. Prerequisites: physical education major, CED 100 and EDF 203. Motor skill themes and movement concepts required for planning and teaching the appropriate sequence and scope for achievement of learner outcomes through elementary physical education.

**ESS 324. Policy and Governance in Sport. (3 Credits)**

I. Formerly PHE 324. Designed to encourage students to integrate management theory with governance and policy development. Provides an overview of the sport industry from the perspective of the sport management professional.

**ESS 325. Physiology of Activity. (3 Credits)**

I, II. Formerly PHE 325. Prerequisite: BIO 171 OR 307 and 301 OR 308. Effects of physical activities on various systems of the human body. Credit will not be awarded for both ESS 325 and PHE 325.

**ESS 327. Sport in American Society. (3 Credits)**

II. Formerly PHE 327. Impact of sport in American society with attention to relationship of political, economic, ethnic, and institutional forces operating within the phenomenon of sport.

**ESS 328. Sport Finance. (3 Credits)**

II. Formerly PHE 328. Course will examine all aspects of successful sport business operations, including budgeting, legal issues, marketing, competitive positioning, regulatory compliance, and strategies for success in sport and recreation industry.

**ESS 330. Social Dance II. (1 Credit)**

A. Formerly PHE 330. This course will build on skills learned in Social Dance I. New dances covered will include: Triple Swing, West Coast Swing, Bolero, Samba and Quickstep. More variations will also be introduced for dances learned in Social Dance I.

**ESS 340. Water Safety Instructor. (3 Credits)**

I, II. Prerequisite: proficient swimming ability. This American Red Cross course will train students to become certified swimming instructors. Course consists of lecture, lab, technique instruction, and practice teaching. WSI certification for those who qualify.

**ESS 343. Lifeguard Instructor. (3 Credits)**

A. Requires American Red Cross Lifeguard certification and age of 17 years or older. Course is designed to teach students who are already certified as American Red Cross Lifeguards to become American Red Cross lifeguard Instructors (LGIs), allowing them to instruct American Red Cross Lifeguard Training, First Aid and CPR for the Professional Rescuer/AED. Focuses on classroom and in-water instruction, planning, organizing, sequencing, skill development, and Red Cross operation policies and procedures.

**ESS 345. Dance Choreography. (2 Credits)**

II. Formerly PHE 345. Basics of dance choreography, applicable to entertainment and art forms of dance.

**ESS 349. Applied Learning in Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349A. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349A. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349B. Cooperative Learning: Physical Education. (0.5-8 Credits)**

**ESS 349C. Cooperative Learning: Physical Education. (0.5-8 Credits)**  
A. Formerly PHE 349C. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349D. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349D. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349E. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349E. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349F. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349F. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349G. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349G. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349H. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349H. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349I. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349I. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349J. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349J. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349K. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349K. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349L. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349L. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349M. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349M. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 349N. Cooperative Learning: Physical Education. (0.5-8 Credits)**

A. Formerly PHE 349N. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**ESS 350. Modern Dance I, II. (1 Credit)**

A. Formerly PHE 350. An intermediate level Modern Dance technique class including floor, center floor and across the floor dance combinations. The course is designed to help the student improve his/her alignment, technique, improvisation and choreographic skills.

**ESS 355. Ethnic Dance Forms. (1 Credit)**

A. Formerly PHE 355. A beginning/intermediate dance class in a particular ethnic form of dance. Basic steps and rhythms characteristic of the dance form will be learned as well as information about the culture from which it is derived.

**ESS 360. Coaching Basketball. (2 Credits)**

I, II. Formerly PHE 360. Theory and practice in coaching the fundamentals of basketball; team offense and defense.

**ESS 361. Coaching Volleyball. (2 Credits)**

I, II. Formerly PHE 361. Theory and practice in coaching the fundamentals of volleyball; team offense and defense.

**ESS 362. Coaching Track and Field. (2 Credits)**

II. Formerly PHE 362. Theory and practice in coaching fundamentals involved in track and field.

**ESS 383. Sports Officiating. (1 Credit)**

I, II. Formerly PHE 383. Technique and skill of officiating, structure of officiating, and relationship between performance, behavior, and the official's duties.

**ESS 390. Lifetime Activity Series:\_\_\_\_. (0.5-2 Credits)**

I, II. Formerly PHE 390. A series of activities suitable for participation throughout life. Includes rules, skills, techniques, and strategies. May be retaken to a maximum of four hours toward graduation requirements. Credit will not be awarded to students who have received credit for HPR 390.

**ESS 400. Management of Sport Organizations. (3 Credits)**

I, II. Formerly PHE 400. Aspects of sport management including disciplinary foundations of sport, theoretical and applied foundations of organization and management, opportunities available in various segments of the sport industry, and professional preparation and development.

**ESS 407. Strength and Conditioning Programming. (3 Credits)**

I, II. Formerly PHE 407. Advanced skills in developing, implementing, and evaluating strength training programs. Knowledge of strength and resistance training, spotting techniques, and safety techniques, exercises and associated anatomy, periodization, and general guidelines for all fitness levels and ages.

**ESS 415. Outdoor and Lifelong Leisure Motor Activities. (3 Credits)**

II. Formerly PHE 415. Prerequisites: EDF 203. Knowledge and skills needed to conduct cooperative, leisure, adventure, and outdoor motor activities for achievement of important personal and educational goals in the school system.

**ESS 418. Dance Science. (3 Credits)**

A. Formerly PHE 418. Application of functional anatomy, basic physiology and physics to dance movement. Offers knowledge base for teachers to instruct safe and effective dance classes and prevent injury. Requirement for Dance Certification.

**ESS 420. Coaching Football. (2 Credits)**

I, II. Formerly PHE 420. Theory and practice in coaching the fundamentals of football; team offense and defense.

**ESS 423. Psychology of Coaching. (3 Credits)**

I. Formerly PHE 423. Study of the dynamics of coaching including performance enhancement and understanding the functions of the coaching process.

**ESS 430. Fitness Program Administration. (3 Credits)**

I. Formerly PHE 430. Prerequisites: ESSC majors and junior or senior standing. Students will learn aspects of fitness and wellness program administration, including management skills, risk management, member tracking, promotion, and record keeping. Additionally, students will be introduced to clinical exercise electrocardiography.

**ESS 433. Adult Physical Fitness Programs. (3 Credits)**

II. Formerly PHE 433. Prerequisites: ESSC Physical Fitness & Wellness Concentration and junior or senior standing. Practice and study of exercise programs meeting the guidelines of the American College of Sports Medicine (ACSM) for improving health-related fitness.

**ESS 435. Group Fitness Instruction. (3 Credits)**

I. Formerly PHE 435. Prerequisites: PHE 320 and 325. A methods class for teaching group fitness classes. Students will learn movement and rhythmic fundamentals, effective teaching methods, how to develop appropriate and creative choreography, injury prevention, marketing techniques, and legal issues involved in starting and running a group exercise class.

**ESS 450. Modern Dance III. (1 Credit)**

I, II. Formerly PHE 450. An advanced level modern dance technique class including floor, center floor and across the floor dance combinations. The course is designed for the dancer that has had several years of dance training and is prepared for more challenging and complex dance skills. May be retaken to a maximum of three hours.

**ESS 467. Skill Acquisition. (3 Credits)**

I. Formerly PHE 467. Practical application of principles of learning and performing motor skills taught in the physical activity environment and the influence of historical events on research in the area of skill acquisition.

**ESS 470. Internship: Sport Management. (1-6 Credits)**

A. Formerly PHE 470. Prerequisite: 2.0 GPA, completion of sport management core and supporting courses. Students are required to document a minimum of 50 hours of sport management related experiences prior to enrollment in PHE 470. Supervised experiences in the directing of sports and physical activities in various settings. May be retaken to a maximum of six hours.

**ESS 471. Practicum in Teaching Dance. (3 Credits)**

A. Formerly PHE 471. Practical experience creating lesson plans and teaching dance in the P-12 school system. Practicum students will teach primary, elementary, middle and secondary students, dance as an art form along with ethnic, folk and social dance. Required for Dance Certification.

**ESS 472. Internship: Physical Fitness and Wellness Management. (1-6 Credits)**

A. Formerly PHE 472. Prerequisite: 2.0 GPA; completion of physical education core courses and physical fitness and wellness option courses. Students are required to document a minimum of 50 hours of physical fitness and wellness related experiences prior to enrollment in PHE 472. Supervised experiences in the directing of wellness and physical fitness activities in various settings. May be retaken to a maximum of six hours.

**ESS 485. Independent Study. (1-3 Credits)**

I, II. Formerly PHE 485. Individual work on a physical education related problem in supervised situation. Restricted to undergraduate physical education major or minor student. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ESS 490. Experiences in Research. (1-3 Credits)**

I, II. Formerly PHE 490. Prerequisites: ATR 100 or PHE 201 and departmental approval. Directed research experience in athletic training, physical education or sports management. May be retaken to a maximum of 9 hours. Students must have research proposal form approved by faculty supervisor and department chair prior to enrollment.

**ESS 517. Bioenergetics in Physical Activity. (3 Credits)**

A. Formerly PHE 517. Prerequisite: Junior/senior standing in major or with departmental approval. Study of bioenergetics processes and the relationship to energy storage, transformation and utilization in biological systems. Study of energy metabolism during different physiological conditions and the applications to clinical exercise science and sport.

**ESS 520. Advanced Strength and Condition. (3 Credits)**

I, II Prerequisites: ESS 407 with a minimum grade of "C"; or Instructor approval. Course is an advanced education in the field of strength and conditioning, principles, organization, and techniques. Higher level understanding of human physiology will be gained with specific emphasis on optimizing adaptation response.

**ESS 530. Sport Communications. (3 Credits)**

II. Formerly PHE 530. Students will explore and apply communication theories to the sport and exercise industry. Emphasis will be on examination of public and media relations with a special focus on organizational communication to external and internal publics.

**ESS 562. Adapted Physical Activity. (3 Credits)**

I, II. Formerly PHE 562. Principles and practices of adapted physical education emphasizing the needs of people with disabilities. Emphasis will be placed on the importance of physical activity, recent legislation, assessments, individual education plans, and adapting activities.

**ESS 575. Tests and Measurements. (3 Credits)**

I, II. Formerly PHE 575. Administration and scoring of tests; evaluation of use of results obtained.

**ESS 590. Special Topics in Exercise and Sport Science. (1-4 Credits)**

A. Formerly PHE 590. Study of various topics in physical education and sport selected to meet special student needs and interests.

**ESS 717. Bioenergetics & Phy Activity. (3 Credits)**

(3) A. Formerly PHE 762. Study of bioenergetics processes and the relationship to energy storage, transformation and utilization in biological systems. Study of energy metabolism during different physiological conditions and the applications to clinical exercise science and sport.

**ESS 720. Advanced Strength and Condition. (3 Credits)**

I, II This course is an advanced education in the field of strength and conditioning, principles, organization, and techniques. Higher level understanding of human physiology will be gained with specific emphasis on optimizing adaptation response.

**ESS 730. Sports Communications. (3 Credits)**

I. Formerly PHE 730. Students will explore and apply communication theories to the sport and exercise industry. Emphasis will be on examination of public and media relations with a special focus on organizational communication to external and internal publics.

**ESS 762. Adapted Physical Activity. (3 Credits)**

I, II. Formerly PHE 762. Principles and practices of adapted physical education emphasizing the physical activity needs of people with disabilities. Emphasis will be placed on the importance of physical activity, recent legislation, assessments, individual education plans, and adapting activities.

**ESS 775. Tests & Measurements. (3 Credits)**

I, II. Formerly PHE 775. Administration and scoring of tests, evaluation and use of results obtained.

**ESS 790. Special Topics in Ex/Sport Sci. (1-4 Credits)**

A. Formerly PHE 790. Study of various topics in physical education and sport selected to meet special student needs and interests. May be retaken to a maximum of six hours with advisor's approval provided subtitle is different.

**ESS 800. Research Methods. (3 Credits)**

I, II. Formerly PHE 800. Application of research methods in exercise and sport science with emphasis on consumption of research, methods of research, and tools and instrumentation for research.

**ESS 810. Financial Aspects of Sport. (3 Credits)**

A. Formerly PHE 810. Study of the principles, practices, and theories associated with finance planning and management of enterprises engaged in the provision of sport related services and/or products. Topics include budget planning and preparation, preparing and analyzing financial statements, revenue sources, money management, preparation of business plans and feasibility studies.

**ESS 812. Lifetime Fitness and Wellness. (3 Credits)**

A. Formerly PHE 812. Philosophical and factual basis for lifetime fitness for professional fitness leaders. Problem-solving and decision-making approaches to establish creative and effective programs.

**ESS 814. Sport Mkt/Prom/Fund Raising. (3 Credits)**

I, A. Formerly PHE 814. Marketing, promotion, and fund raising within the context of amateur and professional sport. An overview of sport business industry; theory; pricing, distribution, and promotional technique of sport; media relations; endorsement and sponsorships; and licensing.

**ESS 821. Physiological Bases of Phy Fit. (3 Credits)**

II. Formerly PHE 821. Effects of chronic exercise on neuromuscular, cardiovascular, respiratory, and metabolic function.

**ESS 822. Sociology of Sport. (3 Credits)**

A. Formerly PHE 822. Meaning of sport in contemporary societies; relationship of selected social factors on development of social groups and attitudes in varying levels of sport; structure and function of sport in simple and complex social institutions.

**ESS 823. Psychology of Sport & Exercise. (3 Credits)**

II. Formerly PHE 823. This course examines the psychological basis of organization and team dynamics of performance in sport and exercise behavior through an exploration of psychological theories and their applications to real world experiences.

**ESS 825. Policy and Governance of Sport. (3 Credits)**

II. Formerly PHE 825. An in-depth study of major sport governing agencies including organizational structure, constitutions, policies, procedures, and membership requirements of sport agencies at the state, national, and international levels.

**ESS 835. Legal Issues in Sports Science. (3 Credits)**

I. Formerly PHE 835. Principles and concepts of exercise and sport in contemporary society with primary emphasis on legal issues that relate to the exercise industry and amateur sport.

**ESS 839. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839A. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839A. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839B. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839B. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839C. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839C. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839D. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839A. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839E. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839E. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 839F. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Formerly PHE 839F. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**ESS 848. History/Philosophy Ex/Sport Sc. (3 Credits)**

A. Formerly PHE 848. A study of organized physical activity of people in significant cultural epochs in history and the underlying philosophy that influenced these activities and the influence on modern exercise and sport science methods and techniques.

**ESS 850. Event and Facility Management. (3 Credits)**

I. Formerly PHE 850. A. Focus on fundamentals of event and facility management: organizing and operating athletic events, planning and modifying facilities associated with athletic, physical education, fitness, and recreation programs.

**ESS 869. Org Behavior & Leadership in ESS. (3 Credits)**

II. Formerly PHE 869. Students will study the basic concepts, theories, organization and administration including financial management as applied to exercise and sport science.

**ESS 870. Internship Sports Administration. (1-6 Credits)**

A. Formerly PHE 870. Supervised experience in selected aspects of sports in a sports administration setting. May be retaken to a maximum of six hours.

**ESS 871. Internship: Exercise/Wellness. (1-6 Credits)**

A. Formerly PHE 871. Supervised experiences of selected aspects of wellness programming.

**ESS 875. Seminar in Exercise and Sport. (3 Credits)**

A. Formerly PHE 875. Research and discussion of critical questions in physical education; topics to be studied will vary according to the concerns of seminar students.

**ESS 885. Independent Study. (1-3 Credits)**

A. Formerly PHE 885. Designed for graduate students who have demonstrated the ability to conduct individual research relating to physical education. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of three hours.

**ESS 891. Issues in Exercise/ Sport Sci. (3 Credits)**

A. Identification of critical issues arising from current problems; exploration of points of view and possible solutions.

**ESS 896. Sports Administration Capstone. (3 Credits)**

A. Formerly PHE 896. Comprehensive integration and application of program learning outcomes. The student will analyze and synthesize academic knowledge and practical experience as they relate to issues and problems in sports administration.

**ESS 897. Thesis. (3-6 Credits)**

A. Formerly PHE 897. For students preparing a thesis in partial fulfillment of the requirements for the master's degree programs. May be retaken to a maximum of six hours.

## ETL Education - Teacher Leader (ETL)

**ETL 800. Leadership Skills for Teachers. (3 Credits)**

A. In-depth study of the key concepts, theories, practices, and procedures of teacher leaders in educational environments. This course must be retaken within the first six hours of a candidate's program. (Minimum of 14 clinical hours required.)

**ETL 801. Leading Achievement Change. (3 Credits)**

A. Pre-req/co-req: ETL 800. The study of change theory and its application in educational settings by educational leaders, teacher leaders, professional staff, support staff, students and communities to improve student achievement. 14 field hours required.

**ETL 803. Curriculum for Teacher Leaders. (3 Credits)**

A. Prerequisites/Corequisites: ETL 800. Candidates will conduct curriculum alignment and development that encompasses analysis and justification for applied curriculum at the appropriate level. Candidates will develop formative and summative assessments. They evaluate research-based instructional strategies for all learners. (Field work 13 hours).

**ETL 805. Research Metho for Educ Profes. (3 Credits)**

A. Formerly ETL 802. Prerequisites: Chair Approval. This course introduces research methods in education. Candidates create a research proposal. With a focus on student learning, student achievement, or school improvement. Repeatable to 9 hours.

**ETL 806. Teacher Leader Capstone. (1-3 Credits)**

A. Formely ETL 804. Prerequisite: ETL 805 (for MAED majors) or EGC 847 (for MAT majors). Candidates will refine a research project begun in ETL 805 or EGC 847. Candidates will collect, analyze, and interpret data related to the impact on student learning and make a final presentation. (Minimum of 40 clinical hours required for advanced licensure candidates. Repeatable for a max of 6 hr.)

## FCC Foreign Culture & Civiliz (FCC)

**FCC 210. Topics in Culture:\_\_\_\_. (3 Credits)**

A. May be retaken to a maximum of 6 hours if topic is different. Introduction to the unique values and traditions of a major African, Asian, Hispanic, or European culture as reflected in its aesthetic, intellectual, and other cultural achievements. Taught in English. Gen. Ed. Element 3B.

**FCC 220. French Culture and Civilization. (3 Credits)**

A. Introduction to the unique values and traditions of the French nation and of French-speaking peoples as reflected in their aesthetic, intellectual, and other cultural achievements. Taught in English. Gen. Ed. Element 3B.

**FCC 222. German Culture and Civilization. (3 Credits)**

A. Introduction to the unique values and traditions of the German peoples as reflected in their aesthetic, intellectual, and other cultural achievements. Taught in English. Gen. Ed. Element 3B.

**FCC 226. Hispanic Culture and Civilization. (3 Credits)**

A. Introduction to the unique values and traditions of the Hispanic nations as reflected in their aesthetic, intellectual, and other cultural achievements. Taught in English. Gen. Ed. Element 3B.

**FCC 227. Japanese Culture and Civilization. (3 Credits)**

A. Introduction to the unique values and traditions of the Japanese as reflected in their aesthetic, intellectual, and other cultural achievements. Taught in English. Gen. Ed. Element 3B.

## FCS Family & Consumer Sciences (FCS)

**FCS 320. Family Housing and Design. (3 Credits)**

I. Introduction to housing and its relationship to human needs. Historical, governmental and current issues influencing housing consumption of individuals and families. Design considerations emphasized include principles and elements, architecture, furniture, and space planning.

**FCS 330. Field Experience. (1-8 Credits)**

A. Prerequisites: department approval and 2.0 cumulative GPA. Supervised work experience in department approved organization. A minimum of 80 hours work required for each academic credit. Options may be taken to a maximum of 8 hours. 330A Field Experience in ADM 330B Field Experience in CDF 330C Field Experience in FCS 330D Field Experience in NFA.

**FCS 330A. Field Experience: ADM. (1-8 Credits)**

Supervised work experience in department approved organization. Field experience in ADM.

**FCS 330B. Field Experience in CDF. (1-8 Credits)**

Supervised work experience in department approved organization. Field experience in CDF.

**FCS 330C. Field Experience: FCS. (1-8 Credits)**

Supervised work experience in department approved organization. Field experience in FCS.

**FCS 330D. Field Experience: NFA. (1-8 Credits)**

Supervised work experience in department approved organization. Field experience in NFA.

**FCS 349. Applied Learning in Family and Consumer Sciences. (0.5-8 Credits)**

A. Prerequisite: department approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**FCS 349A. Cooperative Study: Family and Consumer Sciences. (0.5-8 Credits)**

A. Prerequisite: department approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**FCS 400W. Ethics and Advocacy in Family and Consumer Sciences. (3 Credits)**

Prerequisites: ENG 102 or 102R or 105(B) or HON 102 and CDF 132 and 12 additional hours in the department. History and principles of the profession of Family and Consumer Sciences. Course emphasizes the interdisciplinary nature of the field and its commitment to public policy activism to benefit individuals and families. Credit will not be awarded to students who have credit for FCS 400.

**FCS 550. Family and Consumer Sciences Topics. (1-3 Credits)**

A. Selected topics in Family and Consumer Sciences. May be retaken to a maximum of six hours provided topics vary.

**FCS 750. Fam and Consumer Sci Topics. (1-3 Credits)**

A. Workshops on selected topics in home economics. May be retaken to a maximum of six hours provided topics vary. Students having received credit for the course at the 500 level may take this course to a maximum of six credit hours, including the undergraduate credits. Those who have not received credit for this course at the undergraduate (500) level may retake it to a maximum of six hours credit.

## FIN Finance (FIN)

**FIN 201. Personal Money Management. (3 Credits)**

I, II. A consumer approach to insurance, family budgeting, income taxes, elementary investment principles, and estate planning. Credit will not be awarded to students who have credit for FRM 352.

**FIN 300. Business Finance I. (3 Credits)**

I, II. Prerequisites: ACC 200 or 201, and ECO 230 with a grade of "C" or better in each course. Financial principles with applications to business organizations. Includes firm financial motives, time value of money, risk analysis, elementary capital budgeting, residual dividend policy, elementary capital structure decisions, analysis of financial statements, and international financial considerations.

**FIN 301. Corporate Finance. (3 Credits)**

I, II. Prerequisites: Finance majors only or departmental approval and ACC 200 or ACC 202, ECO 230, MAT 112A and MAT 112B or 114 or 211, and QMB 200 or ECO 220 or STA 215 or STA 270 and FIN 300 with a minimum grade of "C". An in-depth exploration of capital structure (including dividend policy) decisions, working capital management, financial forecasting and planning, the agency problem and its implication for security markets and firm valuation, financial market efficiency.

**FIN 302. Small Business Finance. (3 Credits)**

A. Prerequisite or Corequisite: FIN 301. Equity, debt and venture capital markets for small businesses are examined. Also systems for financial statement generation and internal controls, sources and uses of funds forecasting, short-term asset and liability management, and capital structure decisions are explored. A small firm valuation project will be completed.

**FIN 304. Financial Institutions. (3 Credits)**

I, II. Prerequisite: ACC 201 and FIN 201. A comprehensive overview of the financial institutions industry, with an emphasis on commercial banks.

**FIN 310. Entrepreneurial Finance. (3 Credits)**

I, II. Prerequisites: ACC 200 or ACC 201 or BUS 209 with a grade of "C" or better. Selection of business form, tax planning, financing and cash flow planning; motivating and retaining employees; compensation planning; debt and equity financing; legal, tax and behavioral considerations.

**FIN 311. Personal Financial Planning. (3 Credits)**

I, II. Prerequisites: FIN 201 or 300 or 310, or FRM 352. Time value of money applications; personal financial statements development and assessment; cash flow and debt management; asset acquisition; education planning; planning elements of risk management; investment planning; and retirement planning.

**FIN 315. Financial Statement and Loan Analysis. (3 Credits)**

A. Prerequisites: FIN 304 with a grade of "C" or better in each course. This course introduces the fundamentals of financial analysis for the purpose of credit analysis from the perspective of commercial banks. Students will learn from case studies adapted from real life examples to develop an understanding of credit risk, the development of lending policies and procedures, pricing loans and expectations of risk and return.

**FIN 324. Principles of Investments. (3 Credits)**

A. Prerequisite: FIN 300 or FIN 201 or FIN 310 with a "C" or better. Analysis of the characteristics, valuation, and tax implications of various investments such as common and preferred stock; corporate, federal and municipal debt; mutual funds; money market accounts; options and futures. Explores methods of trading securities.

**FIN 330. Principles of International Finance. (3 Credits)**

A. Prerequisite: FIN 300 with a  $\geq C$  or better. Financial decision-making processes of multinational corporations; flow of funds; exchange rate determination and forecasting; currency futures and options; international arbitrage; measurement and management of exchange rate exposure; multinational capital budgeting; analysis of country risk.

**FIN 349. Applied Learning in Finance. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work for each credit hour. May be repeated for a total of 16 credit hours.

**FIN 390S. Community Financial Literacy. (3 Credits)**

A. Pre-requisites: FIN 201, 301, and 311 with a grade of C or better in each course. Application of financial planning for community members; teaching financial literacy to EKU's service areas and surrounding communities.

**FIN 410. Financial Analysis and Valuation. (3 Credits)**

A. Prerequisite: CCT 300 or CCT 300W and FIN 300 with "C" or better. Exploration of discounted residual earnings as basis for valuation; sources of value creation; methods of forecasting future financial statements. Students are required to produce analyst report for a public company.

**FIN 420. Investment and Portfolio Theory. (3 Credits)**

II. Prerequisites: FIN 301, 324, with a "C" or better. Investment analysis including efficient market theory and empirical investigations, security valuation, risk free borrowing and lending; portfolio selection and performance evaluation are examined. Also included are derivatives; valuation and their role in a diversified portfolio.

**FIN 424. Derivatives Valuation and Accounting. (3 Credits)**

A. Prerequisites: FIN 301 with "C" or better; or ACC 302 with "B" or better, and departmental approval. General valuation principles for derivatives, numerical methods of derivative valuation, regulations covering executive stock options, accounting of derivatives. Also covered are special purpose vehicles.

**FIN 437. Bank Management. (3 Credits)**

A. Prerequisites: FIN 304 with a grade of "C" or better. A synthesis of the financial concepts and theories mastered in previous finance courses. The student will develop a quantitative and qualitative understanding of financial institutions management and how decisions are made. This course includes a bank management simulation activity.

**FIN 450. Project in Finance. (1-3 Credits)**

I, II. Prerequisite: departmental approval. Selected topics of special contemporary interest to finance students. Students are required, under supervision of finance faculty, to write a paper on any finance topic of their choice.

**FIN 490. Special Problems in Finance. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. May be retaken under different sub-topics to a maximum of six hours. Independent work, special workshops, special topics, or seminars. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**FIN 855. Topics in Finance:\_\_\_\_\_. (1-6 Credits)**

A. Prerequisites: FIN 824 with a minimum grade of  $\geq B-\geq$  and QMB 850. Study of contemporary topics from areas such as international finance, financial institutions and regulations, and investment analysis. May be retaken to a maximum of six hour provided topics are different.

**FIN 890. Independent Study in Finance. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. May be retaken under different subtopics to a cumulative maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## FLS Foreign Language Studies (FLS)

**FLS 100. Adventures in Language:\_\_\_\_. (1-3 Credits)**

A. This course introduces students to a language and culture through a variety of possible topics such as French cinema, German folklore, or Spanish dance. May be retaken to a maximum of six hours if topic is different.

**FLS 101. Language Topics:\_\_\_ (3 Credits)**

A. Entry level study of a less frequently taught language such as Arabic, Chinese, Greek, Swahili, or other. May be retaken to a maximum of six hours if topic is different. Gen. Ed. VIII.

**FLS 102. Language Topics:\_\_\_ (3 Credits)**

A. Continuing study of a less frequently taught language such as Arabic, Chinese, Greek, Swahili, or other. May be retaken to a maximum of six hours if topic is different. Gen. Ed. VIII.

**FLS 210. Language Topics:\_\_\_ (3 Credits)**

A. Prerequisite: Basic proficiency in the language and departmental approval. Intermediate level study of a less frequently taught language such as Arabic, Chinese, Greek, Swahili, or other. May be retaken to a maximum of six hours if topic is different.

**FLS 230. Language Studies Abroad:\_\_\_ (1-12 Credits)**

A. Prerequisite: Departmental approval prior to study abroad. Intensive intermediate level coursework in study abroad programs. May be retaken to a maximum of 12 hours per semester for duration of study abroad programs.

**FLS 295. Independent Work in Language. (1-3 Credits)**

A. For students with previous language study. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of nine hours if topic is different.

**FLS 300. Elements of Foreign Language:\_\_\_ (3 Credits)**

A. Prerequisites: departmental approval and the student's major departmental approval. Introduces basic linguistic structures of major European languages, including pronunciation and intonation patterns; sharpens awareness of linguistic differences.

**FLS 310. Topics in Foreign Languages:\_\_\_ (1-3 Credits)**

A. May be retaken to a maximum of 6 hours if topic is different. Examination of problems and issues in foreign languages, literatures, or cultures.

**FLS 330. Language Studies Abroad:\_\_\_ (1-12 Credits)**

A. Prerequisite: Departmental approval prior to study abroad. Intensive intermediate/advanced level coursework in study abroad programs. May be retaken to a maximum of 12 hours per semester for duration of study abroad programs.

**FLS 349. Co-op or Appl. Lrn:\_\_\_\_\_. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to foreign language study. One to eight hours credit per semester or summer. Total hours: 16. A minimum of 80 hours employment required for each semester hour credit.

**FLS 349A. Cooperative Study:\_\_\_ (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to foreign language study. One to eight hours credit per semester or summer. Total hours: 16. A minimum of 80 hours employment required for each semester hour credit.

**FLS 349B. Cooperative Study:\_\_\_ (0.5-8 Credits)**

Work in placements related to foreign language study.

**FLS 349C. Cooperative Study:\_\_\_ (0.5-8 Credits)**

Work in placements related to foreign language study.

**FLS 349D. Cooperative Study:\_\_\_ (0.5-8 Credits)**

Work in placements related to foreign language study.

**FLS 349E. Cooperative Study:\_\_\_ (0.5-8 Credits)**

Work in placements related to foreign language study.

**FLS 349F. Cooperative Study:\_\_\_ (0.5-8 Credits)**

Work in placements related to foreign language study.

**FLS 349G. Cooperative Study:\_\_\_ (0.5-8 Credits)**

Work in placements related to foreign language study.

## FMT Fermentation (FMT)

**FMT 140. Introduction to Fermentation. (4 Credits)**

A. Prerequisites: completion of all academic readiness requirements. Course will provide an introduction to chemical and biological concepts as it relates to the production of desirable beverages and other products through biochemical pathways of microorganisms typically used (for fermentation process). 3 Lec/ 3 Lab. Gen. Ed. E-4 [NS].

**FMT 343. Fermentation Microbiology. (3 Credits)**

A. Prerequisites: FMT 140 (C). Course demonstrates the biochemistry, genetics, and behavior of microorganisms for the production of fermented beverages. 2 Lec/ 3 Lab. Credit will not be awarded for both FMT 343 and 540.

**FMT 344. Chemical Analysis & Quality Control. (4 Credits)**

A. Prerequisite: FMT 140 (C) and ACT math score of 22+ or SAT math score of 530+ or MAT 112B (C) or higher. Course focuses on quality assurance and control (QA/QC) based on analysis using chemical and instrumental methods of initial feedstocks, water, and fermentation products. Analysis will be based in current industrial standards. 3Lec/ 3 Lab.

**FMT 345. Sensory Analysis. (2 Credits)**

Prerequisite: FMT 140 (C) and age requirement of 21 and over. Basic principles involved in sensory perception pertaining to neurochemistry and practical sensory experience with products generated from fermentation process. 1 LEC/2 LAB.

**FMT 349. Applied Learning in Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349A. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349B. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349C. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349D. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349E. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349F. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349G. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349H. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349I. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349J. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349K. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349L. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349M. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 349N. Cooperative Study: Fermentation Science. (0.5-8 Credits)**

Prerequisite: FMT 140 (C) and departmental approval. Independent investigations and study related to academic studies in fermentation science and based in a laboratory setting. One half to eight hours credit per semester or summer. A minimum of 80 hours of employment required for each semester hour of academic credit. May be repeated for a maximum of 12 credit hours but only three hours may be counted towards the major requirements.

**FMT 495. Fermentation Research. (1-3 Credits)**

A. Prerequisites: FMT 340 (C) and departmental approval. Students concentrate on the objectives and techniques of fermentation science research to address a variety of issues / problems in all aspects of the field. May be retaken to a maximum of six hours but only three hours can count towards a degree. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. 3-9 Lab.

**FMT 501A. Special Topics in Fermentation:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 501B. Special Topics in Fermentation:\_\_\_ (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 501C. Special Topics in Fermentation:\_\_\_ (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 501D. Special Topics in Fermentation:\_\_\_ (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 549. Fermentation Project Lab. (2 Credits)**

Prerequisites: Senior standing, FMT 343 (C), and 344 (C). Age requirement (>21 years). Course to perform an independent capstone project where students will decide on the process to make a final fermentation product. Complete analysis of the product will also be performed at different stages of production. 1 Lec / 3 Lab.

**FMT 701A. Fermentation in Special Topics. (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 701B. Fermentation in Special Topics. (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 701C. Special Topics in Fermentation. (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 701D. Special Topics in Fermentation. (1-3 Credits)**

A. Prerequisite: Senior standing and departmental approval. Lecture or laboratory experience to be chosen from current and/or specialized area of fermentation science including (but not limited to) historical aspects, advanced methods of analysis, or facility building. Topics will vary according to student interests and needs. May be retaken to a maximum of six hours. If a laboratory course, then three contact hours will be required for every credit hour.

**FMT 749. Fermentation Project Lab. (2 Credits)**

A. Prerequisites: FMT 540 or 740 (C or better) and 545 or 745 (C or better). Age requirement (>21 years). Course to perform an independent capstone project where students will decide on the process to make a final fermentation product. Complete analysis of the product will also be performed at different stages of production. 1 Lec / 3 Lab.

## FOR Forensic Science (FOR)

**FOR 301. Introduction to Forensic Science. (3 Credits)**

A. Introduction to the application of scientific methods for the examination of physical evidence in the criminal justice system; an overview of the forensic analysis of firearms, fingerprints, drugs, blood, hair, fibers, paint, glass, arson debris, etc.

**FOR 310. Training for Forensic Internships. (1 Credit)**

(1) A. Prerequisite: Junior or Senior Standing in Forensic Science. This course provides the student guidance in the preparation for an internship and explains the forensic internship application process.

**FOR 330. Bloodstain Pattern Analysis. (1 Credit)**

Prerequisite: FOR 301 (C), BIO 111 (C), and CHE 361(C). Bloodstain Pattern Analysis focuses on the identification and examination of bloodstain patterns, effectively recreating and establishing the types of activities and mechanisms that produced them. Prepares students for further studies/career in forensic biology. (1 Lec/2 Lab). Credit will not be awarded to students who have credit for CHE 501: Bloodstain Pattern Analysis.

**FOR 349. Applied Learning in Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349A. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349B. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349C. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349D. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349E. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349F. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349G. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349H. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349I. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349J. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349K. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349L. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349M. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 349N. Cooperative Study: Forensic Science. (0.5-8 Credits)**

(.5-8) A. Prerequisite: FOR 310 and Departmental Approval. Independent laboratory work and study related to forensic science in a laboratory setting. A minimum of 80 hours of employment are required for each semester hour of academic credit. May be retaken for a maximum of 8 credit hours.

**FOR 401. Forensic Professional Practice. (1 Credit)**

I. Prerequisite or Corequisite: FOR 401. Introduces professional practices and expectation for the forensic scientist. Includes discussion of professional organizations, certification, ethics, QA/QC, accreditation, technical writing, data treatment and interpretation.

**FOR 411. Instrumental Analysis. (3 Credits)**

A. Cross-listed with CHE 425. Prerequisites: CHE 325, 325L, 362, 362L; PHY 132 (or 202); MAT 234 (C or better in each course). Prerequisite or co-requisite: CHE 411L. Fundamental principles of the operation and application of analytical instrumentation including spectroscopy, chromatography, electrochemistry, and mass spectrometry found throughout industrial, government, forensic, and/or research environments is presented. Credit will not be awarded for both FOR 411 and CHE 425.

**FOR 411L. Forensic Instrumental Lab. (1 Credit)**

A. Prerequisite: BIO 121 (C); Prerequisite or co-requisite: FOR 411. Lab component of FOR 411. Hands-on experience operating instrumentation most commonly used in forensic science and analytical laboratories, including spectroscopic and chromatographic techniques. Credit will not be awarded for both FOR 411L and CHE 425L. 3 Lab.

**FOR 412. Forensic Trace Evidence. (3 Credits)**

II. Prerequisites: FOR 411 (C) or CHE 425 (C), FOR 411L (C) or CHE 425L (C), FOR 451 (C), and FOR 451L (C). Prerequisites or Corequisite: FOR 412L. Introduction and the application of the instrumentation and techniques to analyze various types of trace and impression evidence.

**FOR 412L. Forensic Trace Evidence Lab. (1 Credit)**

II. Prerequisites: FOR 411 or CHE 425 (C), FOR 411L or CHE 425L (C), FOR 451 and FOR 451L. Prerequisite or Corequisite: FOR 412. Lab component of FOR 412. Use of microscopes and various instruments for examination of forensic trace evidence materials. 3 Lab.

**FOR 431. DNA Profiling. (3 Credits)**

A. Prerequisite: BIO 111(C). Prerequisite or corequisite: CHE 361(C). This course will include topics in forensic DNA profiling; sample collection, DNA extraction, DNA quantitation and amplification. Prepares students for further studies/ career in forensic/molecular biology. Laboratory FOR 431L is optional with this course. Credit will not be awarded for both FOR 331 and FOR 431.

**FOR 431L. DNA Profiling Lab. (1 Credit)**

A. Prerequisite: CHE 361(C). Prerequisite or co-requisite: FOR 431. Laboratory course of FOR 431. Provides practical experience in Forensic DNA profiling: sample collection, DNA extraction, DNA quantitation and amplification. Prepares students for further studies/career in forensic/ molecular biology. Credit will not be awarded for both FOR 331L and FOR 431L.

**FOR 432. Forensic Serology. (1 Credit)**

Prerequisite: FOR 301 (C), BIO 111 (C), CHE 361 (C) and STA 270 or 215. Forensic Serology sample collection, biological fluid identification, and report writing. Prepares students for further studies/career in forensic biology. (1 Lecture/2 Lab).

**FOR 442. Forensic Toxicology & Drugs. (3 Credits)**

(3) II. Formerly: FOR 430. Prerequisite: CHE 362. Study of the chemistry, biochemical activity, isolation and identification of drugs of forensic interest in biological materials. Credit will not be awarded to students who have credit for FOR 430.

**FOR 442L. Drugs & Toxicology Lab. (1 Credit)**

II. Prerequisites: FOR 411 (C) and 411L (C) or CHE 425 (C) and 425L (C); Prerequisites or Corequisite: FOR 442. Introduces techniques and instrumentation used for the chemical separation and analysis of drugs in both solid dosage and toxicological samples. 3 Lab.

**FOR 451. Forensic Microscopic Analysis. (2 Credits)**

I. Prerequisite or Corequisite: PHY 132 (or 202), MAT 234, and for 451L (C or better). Introduction to concepts of forensic microscopic analysis; identification and characterization of trace evidence, such as glass, hair, fiber, and soil. Only forensic major or minor can take this class.

**FOR 451L. Forensic Microscopy Lab. (1 Credit)**

I. Prerequisite or Corequisite: FOR 451. Laboratory component of FOR 451. Use of stereoscopes and polarizing light microscopes for examination of forensic materials. 3 Lab.

**FOR 460. Selected Topics in Forensic Science. (1-3 Credits)**

A. Prerequisite: instructor approval. Topics will be chosen from areas of current interest and may be retaken for credit when new topics are offered. Topics and credit will be announced prior to each offering.

**FOR 465. Expert Witness Testimony. (2 Credits)**

A. Prerequisite: FOR 411 with a "C" or better or departmental approval. Topics include the underlying theory and purpose for expert witness testimony, qualifications of scientific experts, ethical issues relating to expert witness testimony, and elements of expert witness discovery and courtroom testimony. Videotaping of testifying in mock testifying situations is also included. Credit will not be awarded to students who have credit for FOR 465W. 4 Lab.

**FOR 465W. Expert Witness Testimony. (3 Credits)**

A. Prerequisites: ENG 102 or ENG 105 (B) or HON 102 and either FOR 331 and 331L(C) or FOR 412 and 412L(C) or FOR 431 and 431L(C) or FOR 442 and 442L(C), INF 322, or departmental approval. Theory and purpose for expert witness testimony, qualifications of scientific experts, ethical issues, and practical aspects of expert witness discovery and courtroom testimony. Videotaping of testifying in mock testifying situations is also included. Credit will not be awarded for both FOR 465W and 465.

**FOR 490. Introduction to Research. (1-3 Credits)**

A. Prerequisite: CHE 111(C), 111L(C), BIO 111(C), or departmental approval. Instruction to laboratory research in one of the areas of forensic science. May be retaken to a maximum of six hours, but only three hours may be counted toward the major requirements. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**FOR 499. Forensic Science Capstone. (3 Credits)**

A. Prerequisites: Either FOR 331 and 311L(C), FOR 412 and 412L(C), or FOR 442 and 442L(C). Prerequisite or Corequisite: FOR 465 or 465W. Capstone experience that provides overview of the investigative process form collection of evidence at a mock crime scene, through analysis, data interpretation, and presentation of results in a mock courtroom setting. 2 Lec/3 Lab.

## FRE French (FRE)

**FRE 101. Conversational French I. (3 Credits)**

I, II. Prerequisite: all required developmental reading and writing courses. Beginning French conversation, grammar, and language skills. Emphasis on speaking and listening comprehension, with introduction to basic written forms. Taught in context of French and francophone cultures. Laboratory work required. Gen. Ed. VIII.

**FRE 102. Conversational French II. (3 Credits)**

I, II. Recommended: FRE 101 or equivalent proficiency. (Students entering FRE 102 by referral or placement, with two years high school French or equivalent, receive three hours credit for FRE 101 if they make an  $\geq A_{\bar{c}}$  in 102.) Continuing work on communicative skills and correct usage, with introduction to reading short passages on relevant French and francophone cultural topics. Laboratory work required. Gen. Ed. VIII.

**FRE 201. Intermediate Conversational French I. (3 Credits)**

I, II. Recommended: FRE 102 or equivalent proficiency (e.g. with two or three years of successful high school French). French conversation, grammar, and communicative language skills, with increased emphasis on developing basic writing and reading skills. Taught in a context of French and francophone cultures. Laboratory work required. Students entering FRE 201 by referral or placement receive six hours credit for FRE 101 and 102 if they make an  $\geq A_{\bar{c}}$  or  $\geq B_{\bar{c}}$  in 201. Gen. Ed. VIII.

**FRE 202. Intermediate Conversational French II. (3 Credits)**

I, II. Recommended: FRE 201 or equivalent proficiency (e.g. with three or four years of successful high school French.) French conversation, grammar, and communicative language skills, with continuing emphasis on writing skills and on reading authentic texts. Taught in context of French and francophone cultures. Laboratory work required. Students entering FRE 202 by referral or placement receive nine hours credit for FRE 101, 102, and 201 if they make an  $\geq A_{\bar{c}}$  or  $\geq B_{\bar{c}}$  in 202. Gen. Ed. VIII.

**FRE 207. Performing in French: Four Skills. (3 Credits)**

A. Prerequisite: FRE 202 or equivalent proficiency with departmental approval. Focuses on proficiency in the four skills and prepares students for upper-level course work. Taught in French.

**FRE 295. Independent Work in French. (1-3 Credits)**

A. Prerequisite: FRE 207. Prior to enrollment, student must have the independent study proposal approved by faculty supervisor and department chair. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 305. Readings in French. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Taught in French. Focuses on how to understand, talk, and write about short readings and their cultural and literary contexts in French. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 306. France Today. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Focuses on contemporary issues related to France through a variety of topics and media. Taught in French. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 310. Topics in Culture:\_\_\_\_. (1-12 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Emphasis on communicative proficiency in context of topics selected from French or francophone cultural heritage, such as cinema, news media, cuisine, or the arts. Taught in French. May be retaken to a maximum of twelve hours, provided the subject matter differs each time.

**FRE 312. French Literary Studies:\_\_\_\_. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with department chair approval. A selected topic from the major French authors and literary movements. Taught in French. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**FRE 320. French for Work and Travel. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Develops oral and written skills for application in diverse careers, international travel, and interaction with the French-speaking peoples of the world. Taught in French.

**FRE 330. Francophone Cinema. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. An analysis of the culture of the Francophone would thorough representative films. Taught in French. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 340. French Phonetics. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Intensive practice in the spoken language with emphasis on improving pronunciation and aural comprehension. The sound system of French is taught through phonetic exercises.

**FRE 350. French Conversation. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Intensive practice in conversation with emphasis on vocabulary building and improving fluency in the language.

**FRE 360. French Grammar in Context. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. A communicative approach to French grammar in meaningful context, using authentic spoken and written language, within the framework of French and francophone cultures.

**FRE 380. Text Contexts:\_\_\_\_. (3 Credits)**

A. Prerequisite: FRE 207 or equivalent proficiency with departmental approval. Taught in French. Analysis and study of literary and non-literary texts of a chosen era (at discretion of instructor) within the relevant cultural and historical context. May be taken to a maximum of six hours, provided the subject matter differs each time.

**FRE 410. Advanced Stylistics. (3 Credits)**

A. Prerequisite: FRE 360 and FRE 305, 306, or 380, or equivalent proficiency with departmental approval. Taught in French. Advanced work on composition and conversation, with a focus on perfecting grammatical forms and developing advanced vocabulary. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 420. Issues in Translation. (3 Credits)**

A. Prerequisite: FRE 360 and FRE 305, 306, or 380 or equivalent proficiency with departmental approval. Taught in French. Examine the theory and method of translation (French of English) in a variety of genres. Includes the practical aspects of translation and the particulars of a career as a translator. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 430. Francophone Voices. (3 Credits)**

A. Prerequisite: FRE 360 and FRE 305, 306, or 380 or equivalent proficiency with departmental approval. An in-depth study of the traditions and cultural heritage of French speakers. Taught in French. May be retaken to a maximum of six hours, provided the subject matter differs each time with departmental approval.

**FRE 495. Independent Work in French. (1-3 Credits)**

A. Prerequisite: departmental approval. May be counted toward major or minor only with permission of department chair. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## FRM Family Resource Management (FRM)

**FRM 352. Family as Consumers. (3 Credits)**

I, II. Family resource management across the life course. Resource allocation and decision-making to attain family goals and financial wellbeing; time, money, housing, work-family balance. Role of family economics in marital/family satisfaction and multiple family forms. Credit will not be awarded to students who have credit for FIN 201.

**FRM 453. Balance Work/Family Resources. (3 Credits)**

A. Prerequisites: NFA 321 and FRM 352. Concentration on value identification/ clarification, the decision making process, family resource management and the management process by individuals and families. Group projects and supervised field experiences with community programs.

**FRM 456. Spec Prob Family Eco & Mgt. (1-3 Credits)**

A. Prerequisite: departmental approval. The student chooses a problem and works under the supervision of the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours provided topics vary.

**FRM 856. Spec Prob Family Eco & Mgt. (1-3 Credits)**

A. Prerequisite: instructor approval. The student chooses a problem and works under the supervision of the instructor. May be retaken to a maximum of six hours provided topics vary. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## FSE Fire & Safety Engineering (FSE)

**FSE 101. Fire Prevention. (3 Credits)**

A. An introduction to fire and safety related codes; fire prevention methods; mechanical systems; and engineering solutions for hazards. An in-depth look at the Life Safety Code, the function and testing of fire related building components.

**FSE 120. Fire Behavior and Combustion. (3 Credits)**

A. Introduction to the chemistry and dynamics of fire; including basic terminology and concepts that are applied to the physical and chemical properties of the development and spread of fire in a structure; hazardous materials and the Computer Fire Analysis.

**FSE 201. Building Construction. (3 Credits)**

A. A review of the analysis of building construction methods and terminology. A systems approach to designing building fire safety; the Life Safety Code; the function of and testing of rated building components, evaluating plans for code compliance.

**FSE 201S. Building Construction. (3 Credits)**

A. A review of the analysis of building construction methods and terminology using a service learning approach. A systems approach to designing building fire safety; the Life Safety Code; the function of and testing of building components, evaluating plans for code compliance. Credit will not be awarded for both FSE 201 and FSE 201S.

**FSE 221. Fire Detection and Suppression Systems. (3 Credits)**

A. Prerequisites: FSE 101, FSE 120. Introduction to fire detection, protection, control systems and extinguishment. Fixed and portable systems of the following types will be studied: automatic sprinklers, standpipes, dry chemical, foam, halogenated agents, fire alarm systems and diction.

**FSE 223. Fire and Emergency Scene Operations. (3 Credits)**

A. Prerequisite: FSE 201 or FSE 201S. Principles of Incident Management including emergency scene decisions, strategies, and tactics. Utilizing emergency control resources such as personnel, apparatus, and equipment.

**FSE 224. Human Behavior In Fire. (3 Credits)**

Prerequisites: FSE 101 and FSE 120. Examine current and past research on human behavior, systems models, life safety education and building design to determine interactions emergency situations. Develop a best practice building life safety system.

**FSE 225. Legal Aspects of Fire Protection. (3 Credits)**

A. A study of legislative and legal decisions relating to personnel practices, employee safety, and public protection. Emphasizes the legal responsibilities, liabilities, and authority of the fire service practitioner.

**FSE 230. Fire Prevention Organization and Management. (3 Credits)**

A. Prerequisite: FSE 101. An introduction to management issues related to fire prevention systems. Overview of the requirements for fire prevention codes, managing inspections, relations with public and officials and implementation of fire education programs.

**FSE 250. Introduction to Explosion Investigations and Bombings. (3 Credits)**

A. Introduction to explosion investigations and bombings. Topics include a historical overview of terrorism statutes, sources of information, the federal role in explosion investigation, explosives and improvised explosive devices.

**FSE 260. Proving Criminal Acts. (3 Credits)**

A study of crimes and the methodical steps in the investigation and proving of criminal acts. Explore defenses/legal remedies to enable the student to understand the obligations of managing an investigation.

**FSE 280. Constitutional Criminal Procedure. (3 Credits)**

Examines the legal implications of obtaining evidence directly from the suspect. Fourth, Fifth, and Sixth Amendments, and rules of evidence are discussed as they relate to the investigation of criminal acts.

**FSE 300W. Technical Report Writing for Emergency Services. (3 Credits)**

A. Prerequisite: ENG 102. Develop oral and written communication skills specific to the public emergency service sector's needs. Focusing on the technical aspects involved in supporting public initiatives operating within the legal system and learning the specific requirements for submitting documentation to various technical committees. Credit will not be awarded to students who have credit for FSE 300 and 300W.

**FSE 305. Hazardous Materials. (3 Credits)**

A. Prerequisite: FSE 120. Study of hazardous material problems in transportation, storage, and use. Chemical properties relating to specific reactions, engineering controls, and control in an emergency situation. Emphasis on the role of pre-emergency planning, combating, coordinating, and controlling a hazardous materials incident. Credit will not be awarded for both FSE 305 and OSH 305.

**FSE 310. WMD/Hazardous Materials. (3 Credits)**

A. Study of different Weapons of Mass Destruction (WMD) materials, deployment, and use. Evaluation of hazardous materials, usage, storage, and transportation. Preventing and controlling WMD/Hazardous Materials incidents.

**FSE 320. Principles of Emergency Services. (3 Credits)**

A. An overview of organizational and management practices in the fire and safety fields. Emphasis on supervision and leadership styles, motivation, morale, and organizational behavior.

**FSE 322. Water-Based Fire Protection Systems Design. (3 Credits)**

A. Prerequisite: FSE 221. Analysis and evaluation of specific code requirements related to the design, inspection, testing and maintenance of water-based fire protection systems. Design projects will be included.

**FSE 330. Principles of Criminal Investigation. (3 Credits)**

Prerequisites: FSE 300 or FSE 300W, FSE 260, and FSE 280. A detailed study of the investigative procedure as it applies to fire, arson, explosion and other personal property crimes.

**FSE 349. Applied Learning in Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 and OSH 349.

**FSE 349A. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349B. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349C. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349D. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349E. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349F. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349G. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349H. Cooperative Study: Fire and Safety Engineering. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 349J. Co-op or Appl Lrn: Fire/Safety. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 A-N and OSH 349 A-N.

**FSE 350. Fire Arson and Explosion Investigation. (3 Credits)**

A. Prerequisite: FSE 120. An in depth study in the analysis of fire, arson, and explosion scenes. Emphasis will be placed on the principles and techniques of scene preservation and analysis, management of investigative functions, documentation of the scene, and determination of the cause and origin of fire.

**FSE 355. Fire Dynamics. (3 Credits)**

A. Prerequisites: CHE 101 or higher, FSE 120, and MAT 114. An introduction to fire-related measurement techniques, advanced fire and combustion concepts and associated terminology. This courses includes basic numerical methods for understanding fire dynamics.

**FSE 360. Fire Protection Hydraulics and Water Supply. (3 Credits)**

A. Prerequisites: FSE 120 and MAT 107 or higher. A study of water at rest and in motion, Bernoulli's and Pascal's theorems; water distribution systems, velocity, friction loss, pump and nozzle pressures required for fire protection.

**FSE 365. Instructional Methodology for Emergency Service. (3 Credits)**

A. Course provides students with opportunities to develop presentation skills used in classroom instruction. Develop lesson plans, prepare audio-visual aids and props for the class. Prepare evaluation methodologies that competently assure learning objectives during delivery of presentations.

**FSE 370. Electrical and Mechanical Systems Failure Analysis. (3 Credits)**

A. Overview of design criteria for electrical and mechanical systems and components relative to fire safety via laboratory experiments, exemplar components and photographs that depict system and component failures that result in fire. Learning opportunities include engaging in destructive and nondestructive analysis of components and systems.

**FSE 375. Emergency Services Resource Management. (3 Credits)**

A. Introduction to management issues related to obtaining and accounting for resources. Included are financial management processes, acquisition strategies, strategies for maintenance of effort and resource prioritization, resource replacement planning and processes to audit program success.

**FSE 380. Failure Analysis. (3 Credits)**

A. Prerequisite: FSE 370. An in-depth study of fire and arson investigations. Emphasis will be placed on the principles and techniques of scene preservation, failure analysis, report writing, and determination of cause and origin.

**FSE 400. Advanced Emergency Services. (3 Credits)**

A. Prerequisites: FSE 300 or FSE 300W and 320. A study of environmental management including the identification and analysis of key managerial issues confronting contemporary fire services managers. Application in current methods and planning, organizing, developing and evaluating public fire/emergency services organizations.

**FSE 425. Disaster & Community Fire Defense Planning. (3 Credits)**

A. Prerequisite: FSE 300 or FSE 300W. Overview of the ever changing demographics of the departmental jurisdictions and response during community service master planning, identifying hazards then assessing risks associated with those hazards. Analysis of potential disaster and recovery methods.

**FSE 445. Advanced Structural Fire Protection. (3 Credits)**

Prerequisite: FSE 355 (C). Examines principles involved in structural fire protection: behavior of materials and design considerations for each material in regards to a structure's design under fire attack and resistive protection methods.

**FSE 450. Advanced Explosion and Bombing Investigation. (3 Credits)**

A. Prerequisite: FSE 250 and FSE 380. An in-depth study of explosion scene investigation. Emphasis will be placed on the principles and techniques of scene preservation analysis, management of investigative functions, documentation of scene, and determination of the cause of explosions.

**FSE 480. Industrial Fire Safety. (3 Credits)**

Prerequisites: FSE 101, FSE 120 and FSE 360. Fire scenario analyses for industrial installations using test data, loss experience and simplified theoretical modeling focusing on warehousing, storage of flammable liquids and safety of electrical equipment and computers.

**FSE 481. Fire Protection Design. (3 Credits)**

Prerequisite: FSE 445. Comprehensive project emphasizing a team approach to the design process. Problem formulation; project management; drawings and specifications; cost estimating; and various project components. Engineering and professional ethics.

**FSE 489. Topical Seminar.\_\_\_\_. (1-3 Credits)**

A. Prerequisite: Departmental approval. Development and presentation of research in contemporary methods, techniques, and devices in the field. May be retaken under different topics to a maximum of 12 hours.

**FSE 490. Fire/Safety Research & Evaluat. (3 Credits)**

A. Prerequisite: senior standing. Development of competency relating to concepts of fire and safety research analysis. Each student develops a research design and carries out a study project. Individual studies are culminated with project paper and presentation.

**FSE 495. Fire Arson and Explosion Case Preparation. (3 Credits)**

A. Prerequisite: FSE 450. Preparation of the fire, arson, and explosion case for trial, including preparation of demonstrative evidence, scene documentation for presentation, rules of evidence, case review and analysis, and testimony.

**FSE 496. Fire Investigation Case Preparation. (3 Credits)**

Prerequisite: FSE 450. Preparation of the fire and arson case for trial, including preparation of demonstrative evidence, scene documentation for presentation, and testimony.

**FSE 498. Independent Study. (1-3 Credits)**

A. Prerequisite: Departmental approval. Individual reading and research on a problem or area within the field of Fire and Safety, after student consultation with the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours providing the project title differs.

**FSE 499. Practicum. (1-12 Credits)**

A. Prerequisite: departmental approval. Supervised field observation, research, and/or experience.

## Gastronomic Tourism (GTO)

**GTO 210. Gastronomic Tourism. (3 Credits)**

A. An exploration of the planning, development, and management of gastronomic tourism. Emphasis on sustainable practices, stakeholders, and policies associated with successful gastronomic tours.

**GTO 320. Bourbon, Beer & Spirits. (3 Credits)**

A. The history, culture, and production of bourbon, beer, and spirits. Study of brewing and distilling tourism, with an emphasis on community impact, marketing, and sustainable practices. The student must adhere to all location-based alcohol consumption rules, including any age restrictions (for example, in the United States, the student must be age 21 or older to consume alcohol). Alternative assignments can be provided for any consumption-based assignments.

**GTO 325. Culture & Consumption of Wine. (3 Credits)**

(A). An exploration of interactions between wine, culture, and tourism. Topics include interpreting a wine label and identifying wine-growing regions around the world, understanding wine and health issues, and basic wine tasting. The student must adhere to all location-based alcohol consumption rules, including any age restrictions (for example, in the United States, the student must be age 21 or older to consume alcohol). Alternative assignments can be provided for any consumption-based assignments.

**GTO 410. Gastronomic Tour Development. (3 Credits)**

(A). Pre-requisite GTO 210. An advanced course examining environmental, societal, and economic impacts of gastronomic tourism. Creation of a gastronomic tour emphasizing cultural competence, sustainable practices, and marketing strategies.

## GBU General Business (GBU)

**GBU 101. Introduction to Business. (3 Credits)**

I, II. A survey of modern business practices. The course explores business areas including management, marketing, accounting, and finance. The course is designed to help prepare students for future business courses and assist students in deciding whether to choose business as a career.

**GBU 201. International Business. (3 Credits)**

I. An overview of international business, including international business law, international business customs, and international business functional operations, examining the effectiveness of U.S. business ventures abroad and in competition with international companies at home.

**GBU 204. Legal and Ethical Environments of Business. (3 Credits)**

I, II. Prerequisite: minimum 45 hours. Law and the legal system. Topics include discussion on ethical and socially responsible business decision; business forms, contracts and torts; governmental regulations and regulatory agencies that impact businesses.

**GBU 310. Law of Contracts, Property, and Business Organizations. (3 Credits)**

I. Principles of the law of contracts, property and the formation, relationship and implications of partnership, corporations and agencies.

**GBU 311. Law of Commercial Transactions. (3 Credits)**

II. Principles for law of personal property transfers, negotiable instruments, secured transactions, the application of the Uniform Commercial Code and business transactions, bankruptcy, and governmental regulation.

**GBU 349. Applied Learning in General Business. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used as upper division business electives and/or free electives as approved. General Business Majors, depending on option, are limited to a maximum of nine co-op hours counting toward degree. Co-op hours may be repeated up to nine hours.

**GBU 480. Business Strategy. (3 Credits)**

I, II. Prerequisites: CCT 300 or CCT 300W, CIS 300, FIN 300, MGT 300, 370 and MKT 300 with a grade of "C" or better in each pre-requisite course; senior standing (A minimum of 90 hours) with overall minimum 2.0 GPA. A capstone study of administrative processes under conditions of uncertainty including integrative analysis and formulation of strategy and supporting policy at administrative/executive levels. Students must complete all business core courses prior to taking GBU 480.

**GBU 850. Lgl, Ethical, Soc Envir of Bus. (3 Credits)**

A. Examines what the responsible business-person must know about the Common Law, the regulatory environment, standards of ethical conduct, and the social responsibilities of the modern enterprise.

**GBU 855. Special Topics in Business. (3 Credits)**

A. Prerequisite: departmental approval. Study of various special topics in the various functional areas of business: accounting, administrative communications, computer information systems, finance, management, marketing, or international business. May be retaken to a maximum of six hours provided topics are different.

**GBU 891. Thesis Research. (3 Credits)**

A. An independent research project, guided by a Thesis Advisor and approved by Thesis Committee of three MBA faculty (Thesis Advisor included), in partial fulfillment of the MBA degree. The decision to complete a thesis must be made during the student's second semester in the MBA Program. Three hours per semester, up to a maximum of six hours, may be taken. The grade for this course will be IP until either the thesis is completed and approved, or the MBA Knowledge Test Exit Exam (KTEE) is passed at which time the grade will become "S".

## GCM Graphic Communications (GCM)

**GCM 211. Graphic Communication. (3 Credits)**

I, II. An overview of the market segments using the technologies of printing, publishing, packaging, electronic imaging, and their allied industries. 2 Lec/2 Lab.

**GCM 217. Electronic Publishing. (3 Credits)**

A. Basic course in desktop publishing and preparing appropriately designed documents for Graphic Communications. Emphasis is on the use of professional level computer application programs for working with images, type and page layouts. 2 Lec/2 Lab.

**GCM 255. Web Publishing. (3 Credits)**

(3) I. Formerly TEC 255. A basic course in using current Web standards to prepare content for the World Wide Web that includes HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). 2 Lec/2 Lab.

**GCM 313. Digital Photography. (3 Credits)**

(3) A. Formerly TEC 313. A study of current technology used to capture, manage, enhance and process photographic images for use with various computer applications. 2 Lec/2 Lab.

**GCM 316. Graphic Communications II. (3 Credits)**

I. Prerequisites: GCM 211. Advanced study of the imaging processes with particular attention given to prepress, press and post press operations related to offset presswork. 2 Lec/2 Lab.

**GCM 317. Electronic Publishing II. (3 Credits)**

II. Prerequisite: GCM 217. Advanced desktop publishing course in the design, creation, and assembling of text and graphical images. In depth study of color theory, color management and color separation. 2 Lec/2 Lab.

**GCM 318. Flexographic Printing. (3 Credits)**

I. Prerequisite: GCM 211. An overview of the flexographic printing process. Emphasis will be given to products, image carriers, imaging and finishing operations in the label and corrugated packaging industry. 2 Lec/2 Lab.

**GCM 319. Specialty Graphic Imaging. (3 Credits)**

II. Prerequisite: GCM 316. An overview of specialty imaging including screen, pad, and wide format printing. Emphasis will be given to the printed product, image carrier preparation, press systems and mechanics, inks and substrates. 2 Lec/2 Lab.

**GCM 349. Co-op/App'l. Lrn/Graphic Cmn Mgt. (1-8 Credits)**

I, II. Prerequisite: departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate, sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**GCM 349A. Co-Op Study in Graphic Cmn Mgt. (1-8 Credits)**

I, II. Prerequisite: departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate, sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**GCM 349B. Co-Op Study in Graphic Cmn Mgt. (1-8 Credits)**

I, II. Prerequisite: departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**GCM 349C. Co-op Study in Graphic Cmn Mgt. (1-8 Credits)**

I, II. Prerequisite: departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**GCM 355. Web Animation. (3 Credits)**

(3) II. formerly TEC 355. Prerequisites: GCM 255 and 313. Web animation with advanced web programming. 2 Lec/2 Lab.

**GCM 410. Finishing and Packaging. (3 Credits)**

A. Prerequisite: GCM 319. A study of post-press finishing and binding operations in the printing and publishing industries. Packaging operations will also be studied, including design, layout, printing and assembly.

**GCM 412. Color Process Printing. (3 Credits)**

A. Prerequisites: GCM 317 and 319. The advanced study and practical application of reproducing process color images by offset lithography. 2 Lec/2 Lab.

**GCM 414. Printing Estimating and Costs. (3 Credits)**

II. Prerequisite: GCM 316 and 319. Methods and procedures of predetermining costs of printed products. The determination of equipment hourly rates and depreciation, cost centers, and equipment purchase decisions will be discussed with emphasis on computer related operations.

**GCM 455. Web Publishing II. (3 Credits)**

(3) I. Prerequisite: GCM255. An advanced course in preparing content for the World Wide Web that includes HTML, PHP and MySQL. Students will work with both client-side and server-side technologies to integrate databases into web sites. 2 Lec/2 Lab.

**GCM 467. Comp Exam for BS in GCM. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration is required of all Graphic Communications Management B.S. majors during their last semester. A comprehensive assessment exam is required.

## GCS Career Cou/Interp Skills (GCS)

**GCS 198. Interpersonal Effectvnsn Semin. (1 Credit)**

The course is designed to assist students in gaining confidence in themselves and in relating more effectively with others. Attention is given to assertiveness, values clarification, and effective life management.

**GCS 199. Career Counseling Seminar. (1 Credit)**

I, II. Prerequisite: Degree Seeking Only. The eight-week course helps students make effective career decisions. Self-awareness, values clarification, an awareness of career alternatives, and decision-making skills are promoted in the course. Pertinent career facts are learned; i.e. salary, training, outlook, and working conditions.

## GEO Geography (GEO)

**GEO 100. Regions and Nations of the World. (3 Credits)**

I, II. Survey of the physical, cultural, and economic geography of the world's major regions, with an emphasis on regions undergoing change and currently of international concern. Gen. Ed. 5B (SBS).

**GEO 110. Environmental Geography. (3 Credits)**

(3) A. Prerequisites: Freshman and Sophomore standing. A focus on ecological function and the physical and human dynamics contributing to environmental change across the globe and at various geographical scales. Environmental issues are examined through a geographical lens, and include clean air and water, energy systems, biodiversity, natural hazards, climate change, and food production. 2Lec/2Lab. Gen. Ed. E-4.

**GEO 115. Hollywood Weather. (3 Credits)**

A. This non-technical introduction to atmospheric processes examines how meteorological events are portrayed in popular movies. Topics may include severe weather events, climate change, and weather's impact on human systems.

**GEO 210. Introduction to Physical Geography. (3 Credits)**

I, II. Study of natural processes operating at the earth's surface with special emphasis on weather and climate and landforms as explanations for how and why physical and human phenomena vary from place to place. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

**GEO 302W. Global Environmental Problems. (3 Credits)**

A. Course will be offered every odd Spring semester. Prerequisite: GEO 100, 110, or 210.; ENG 012, ENG 105 (B), or HON 102; MAT 105 or higher; or departmental approval. Examination of environmental problems and conservation strategies in the context of global change, with case studies from exemplary world religions, including rainforest, mountain, desert, and island biomes. Credit will not be awarded to students who have credit for GEO 302 or ENV 302.

**GEO 315. Meteorology. (3,4 Credits)**

I, II. Prerequisite: MAT 112 (A and B), 114, 122, 211 or 234. This course focuses on important phenomena and physical processes that occur in Earth's atmosphere, including atmospheric dynamics, radiation, stability, moisture, wind systems and severe storms.

**GEO 321. Urban Geography. (3 Credits)**

A. Prerequisites: GEO 100, 110, or 210; ENG 102 or ENG 105 (B) or HON 102. Study of city functions, patterns, and past and current problems confronting the city, including the problems of planning, zoning, community housing, shopping centers, and urban renewal.

**GEO 325. Environment Land Use Planning. (3 Credits)**

A. Prerequisites: Prerequisites: GEO 100, 110, or 210; ENG 102 or ENG 105 (B) or HON 102; ENG 102 or ENG 105 (B) or HON 102, and MAT 105. Examines how principles of landscape ecology, resource conservation, and environmental impact analysis are incorporated into land use decisions and public policy. Emphasizes practical application at the site and regional scales. Credit will not be awarded for both GEO 325 and GEO 325S, ENV 325 or ENV 325S.

**GEO 325S. Environmental Land Use Planning. (3 Credits)**

(3) A. Course will be offered every even Spring semester. Prerequisite: GEO 100, 110, or 210; ENG 102, 105(B), or HON 102; MAT 105 or higher, or departmental approval. Examines how principles of landscape ecology, resource conservation, and environmental impact analysis are incorporated into land use decisions and public policy. emphasizes practical application at the site and regional scale. Credit will only be awarded for GEO 325S or GEO 325 or ENV 325 or ENV 325S.

**GEO 351. Geoscience Data and Techniques. (3 Credits)**

Prerequisites: GEO 100, 110, 210, GLY 104, 107, 108 or 109; MAT 105 and above, STA 215 or 217. Introduction to geoscience data, quantitative and qualitative analysis, hypothesis testing, and appropriate representations of specific data types. Includes exposure to techniques used in geoscience research and applications, including mapping, GIS, GPS, field work, remote sensing, library and Internet research, and others. Practical experience focus. 2 Lec/2 Lab.

**GEO 353. Geographic Information Systems. (3 Credits)**

(3) I, II. Prerequisite: (One of the following): AGR 216, CSC 315, GEO 100, 110, 210, GLY 102, 107, or 108. Introduction to GIS principles, methods, operations, mapping, and applications. Topics include spatial data, databases, GIS analysis, models, site suitability, environmental and social applications, and more. Hands-on emphasis using ArcGis. 2 Lec/2 Lab.

**GEO 450. Field Studies. (3 Credits)**

(3) A. Prerequisite: GEO 100, 110, or 210. Field techniques and applied case studies of geographic topics in local and regional environs.

**GEO 453. Advanced GIS. (3 Credits)**

I, II. Prerequisite: GEO 353 or departmental approval. Advanced concepts, operations, and applications of raster and vector GIS. Spatial analysis using scanning, imagery, GPS, global data sets, and derived data for natural and social applications. Use of standards, megadata, openGIS, and other advances. 2 Lec/2 Lab.

**GEO 455. GIS Cartography. (3 Credits)**

I. Prerequisite: (One of the following): GEO 100, 110, 210, GLY 102, 107, or 108. Principles of cartographic design for GIS applications. Hands-on emphasis using ArcGIS. 2 Lec/2 Lab.

**GEO 456. Remote Sensing. (3 Credits)**

A. Prerequisite: GEO 100, 110, 210, GLY 102, 107, or 108. Principles, data sources, acquisition, interpretation, analysis, and application of geographic imagery, including maps, air photos, shuttle photography, and satellite digital data. Hands-on computer GIS techniques. 2 Lec/2 Lab.

**GEO 458. Advanced Geographic Imagery. (3 Credits)**

II. Prerequisite: GEO 353. Characteristics, interpretation, integration and applications of advanced geographic imagery, including remote sensing and GIS digital data. Attention on satellite and multispectral imagery, including image processing. Hands on emphasis. 2Lec/2Lab.

**GEO 501. Advanced Geography:\_\_\_\_. (3 Credits)**

A. Prerequisite: departmental approval. In-depth study of geoscience themes using geospatial techniques. May be retaken to a maximum of nine hours if subject matter differs each time.

**GEO 701. Advanced Geography:\_\_\_\_\_. (3 Credits)**

A. Prerequisite: departmental approval. In-depth study of geoscience themes using geospatial techniques. May be retaken to a maximum of nine hours if subject matter differs each time.

## GER German (GER)

**GER 101. Conversational German. (3 Credits)**

I, II. Prerequisite: all required developmental reading and writing courses. Beginning German conversation, grammar, and language skills. Emphasis on speaking and listening comprehension, with introduction to basic written forms. Taught within the context of Germanic cultures. Laboratory work required. Gen. Ed. VIII.

**GER 102. Conversational German II. (3 Credits)**

I, II. Recommended: GER 101 or equivalent proficiency. Continuation of GER 101. (Students entering GER 102 by referral or placement receive three hours credit for GER 101 if they make an  $\geq A_{\geq}$  in 102.) Continuing work on basic communicative skills. Taught within the context of Germanic cultures. Laboratory work required. Gen. Ed. VIII.

**GER 201. Intermediate Conversational German. (3 Credits)**

I, II. Recommended: GER 102 or equivalent proficiency. German conversation, grammar, and other language skills with increased emphasis on developing basic writing and reading skills. Taught in a cultural context. Laboratory work required. Students entering GER 201 by referral or placement receive six hours credit for GER 101 and 102 if they make an  $\geq A_{\geq}$  or  $\geq B_{\geq}$  in 201. Gen. Ed. VIII.

**GER 202. Intermediate Conversational German II. (3 Credits)**

I, II. Recommended: GER 201 or equivalent proficiency. German conversation, grammar, and other language skills with continuing emphasis on reading and writing skills. Taught in a cultural context. Laboratory work required. Students entering GER 202 by referral or placement receive nine hours credit for GER 101, 102, and 201 if they make an  $\geq A_{\geq}$  or  $\geq B_{\geq}$  in 202. Gen. Ed. VIII.

**GER 240. Beginning Conversation. (3 Credits)**

A. Recommended: GER 201 or equivalent proficiency with department chair approval. Topics for conversation drawn from everyday situations. (Waived in case of demonstrable oral proficiency, but not open to students who have native or near-native fluency in German.)

**GER 295. Independent Work in German. (1-3 Credits)**

Prerequisite: GER 202 or equivalent proficiency. May be retaken to a maximum of 9 hours if content is different. Prior to enrollment, student must have the independent study proposal approved by faculty supervisor and department chair.

**GER 310. Topics in German:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: GER 202 or equivalent proficiency with department chair approval. May be retaken to a maximum of 6 hours if topic is different. Selected topics in German language, literature, or culture.

**GER 340. Intermediate Conversation. (3 Credits)**

A. Prerequisite: GER 240 or equivalent proficiency with department chair approval. Topics for conversation drawn from contemporary German life.

**GER 495. Independent Work in German. (1-3 Credits)**

A. Prerequisite: departmental approval. May be counted toward major or minor only with permission of department chair. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## GLO Globalization/Intl. Affair (GLO)

**GLO 201. Introduction to Globalization. (3 Credits)**

Prerequisites: completion of all development requirements. An introduction to the multi-faceted dimensions of globalization, including positive and negative aspects of globalization and some of the many cultural, economic, geographical, historical, political, ideological and social forces affecting globalization.

**GLO 490. Globalization Senior Seminar. (3 Credits)**

A. Prerequisites: Senior standing and departmental approval. Reading, analysis and discussion of current globalization topics, with heavy emphasis on class participation and student presentations.

## Global Hospitality and Tourism (GHT)

**GHT 201. Hospitality & Tourism Essential. (3 Credits)**

3 (A). An overview of the hospitality and tourism industry with emphasis on historical development, management and leadership functions, current trends, and future challenges.

**GHT 310. Be Our Guest. (3 Credits)**

An examination of industry standards and procedures to deliver quality customer experiences. Special emphasis on improvement plans, service leadership and assessing customer satisfaction.

**GHT 320. Impact of Hospitality. (3 Credits)**

3 (A). The role of culture in the development of hospitality, leisure, and travel. Sociocultural impacts of tourism and hospitality on local, regional, national, and global cultures.

**GHT 425W. Hospitality & Tourism Analysis. (3 Credits)**

A. Prerequisite: ENG 102 or 102R or 105(B) or HON 102, and STA 215. Evaluation of hospitality and tourism research terminology, methods, ethics, and theory. Emphasis on analyzing professional literature to make informed decisions that impact hospitality and tourism practice.

**GHT 450. Global Hospitality Law. (3 Credits)**

(A). Introductory course in hospitality and tourism law with an emphasis on laws, negligence, rules and regulations applicable to the hospitality industry worldwide.

**GHT 499. Hospitality & Tourism Practic. (3 Credits)**

A. Prerequisite: Global Hospitality and Tourism Majors only and Department Approval. Directed global hospitality and tourism field experience. Minimum of 240 clock hours. May be retaken up to a maximum of 6 hrs.

## GLY Geology (GLY)

**GLY 102. Earth Science for Elementary Teachers. (3 Credits)**

I, II. Prerequisite: Elementary, special education elementary, and elementary DHH education majors only or departmental approval. This inquiry-based course for elementary teachers integrates content, pedagogy and technology to explore Earth as an integrated set of systems and as part of the Solar System. 1 Lec/4 Lab. Gen. Ed. IVB or VII (NS).

**GLY 103. Earth Science for Middle Grades Teachers. (3 Credits)**

II. Prerequisite: Middle grades, special education middle grades, and DHH middle grade education majors only or Earth Science Teaching minors or departmental approval. This inquiry-based course for middle grades teachers integrates content, pedagogy, and technology to explore earth science content aligned with relevant standards in the Next Generation Science Standards and the Praxis Middle School Science exam. 1 Lec/ 4 Lab.

**GLY 104. The Ocean World. (3 Credits)**

(3) Formerly GLY 304. I, II. Investigation of the geologic, physical, biogeochemical, and biologic processes that occur within the oceans of the world. The course emphasizes connections between these processes, and how those connections interact with our planet's life. 2 Lec/2 Lab. Gen Ed E-4. Credit will not be awarded to students who have credit for GLY 304.

**GLY 107. Gold and Diamonds. (3 Credits)**

A. The geology of gold and diamonds, including mineralogy, natural occurrence, exploration, and mining. The impact of gold, diamonds, and other important earth materials on the environment, history, and society will also be discussed. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

**GLY 108. Earthquakes and Volcanoes. (3 Credits)**

I, II. Investigation of the Earth as it exists and functions today, the materials that compose the Earth, the processes that act upon and within the Earth, and the interrelationship of both materials and processes with human activity. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

**GLY 109. Great Moments in Earth History. (3 Credits)**

I, II. Investigation of the origin of the Earth as a planet and its evolutionary development of physical and biological systems through time. Important turning points in the Earth's history will be emphasized. 2 Lec/2 Lab. Gen. Ed. IVB or VII (NS).

**GLY 210. Introduction to Geochemistry. (3 Credits)**

I. Prerequisite or Corequisite: ACT math score of 22, or SAT math score of 530, or passing algebra placement test scores (KYOTE algebra domain KAD score of 14 or higher). or MAT 112, 114, or departmental approval. An introduction to the application of fundamental concepts and skills in chemistry (nomenclature, stoichiometry, bonding, chemical change) to geology, including the distribution of the elements, mineral chemistry, and radiometric dating.

**GLY 302. Earth Science. (3 Credits)**

(3) A. Prerequisite: GLY 102, 104, 107, 108, or 109. Study of the universe and our solar system, the Earth's atmospheric and climatic elements, its physical processes and features, organic development, and natural resources.

**GLY 303. Environmental Geoscience. (3 Credits)**

A. Prerequisite: GLY 103, 104, 107, 108, or 109; or GEO 100, 110, or 210; or departmental approval. Investigation of the Earth as a complex set of interconnected systems that cycle elements, water, and earth materials over geologic and human times scales. The course emphasizes global environmental changes that occur on the planet because of human actions. Credit will not be awarded for both GLY 303 or ENV 303.

**GLY 305. Dinosaurs. (3 Credits)**

(3) A. Prerequisites: GLY 102, 104, 107, 108, 109; ENG 102, ENG 105(B) or HON 102; or departmental approval. The rise, diversification, and extinction of this prominent group of organisms. This course attempts to explore how scientists make inferences about the past, including the use and limitations of physical evidence and the nature of science.

**GLY 307. Exploring the Dynamic Earth. (3 Credits)**

Formerly GLY 107. Planet Earth: origin, composition, and evidence of activity and energetic recycling of Earth materials via plate tectonics.

**GLY 309. Mineralogy. (4 Credits)**

A. Course will be offered every even Fall semester. Prerequisites: GLY 104, 107, 108, or 109; MAT 112 (A and B) or higher; or departmental approval. Study of minerals commonly encountered in rocks and soils with minor emphasis on ore deposits: mineral geochemistry, crystal structure, classification, physical properties, optical properties, and geologic environment. Laboratory develops the ability to identify minerals in hand specimens and thin sections. 3 Lec/2 Lab.

**GLY 315. Hydrology. (3 Credits)**

A. Course will be offered every even Fall semester. Prerequisites: One from GLY 104, 107, 108, or 109; and MAT 114 or both MAT 112A and MAT 112B or ACT 23 and above or SAT 550; or departmental approval. Interrelationships between Earth's systems and the occurrence and character of water in streams, lakes, and groundwater. Focuses on fundamental understanding of hydrologic processes and reservoirs, interaction between surface waters and groundwater and relationships between human activity and these reservoirs. 2 Lec/ 2 Lab.

**GLY 349. Applied Learning in Geology. (0.5-8 Credits)**

I, II. Work in placements related to academic studies. Total hours for baccalaureate, sixteen. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major, or minor requirements.

**GLY 349A. Cooperative Study: Geology. (0.5-8 Credits)**

I, II. Work in placements related to academic studies. Total hours for baccalaureate, sixteen. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major, or minor requirements.

**GLY 349B. Cooperative Study: Geology. (0.5-8 Credits)**

I, II. Work in placements related to academic studies. Total hours for baccalaureate, sixteen. A minimum of 80 hours of employment required for each semester hour of academic credit. May not be used to satisfy area, major, or minor requirements.

**GLY 351. Field Methods. (3 Credits)**

A. Prerequisites: GLY 104, 107, 108, or 109; or departmental approval. Methods of field geology including description and measurement of rock sequences, introduction to geological mapping and writing geological reports. 1 Lec/4 Field.

**GLY 398. Independent Studies in Geology. (1-6 Credits)**

A. Prerequisite: departmental approval. Topic determined by student and instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours provided topic is different each time.

**GLY 408. Process Geomorphology. (3 Credits)**

A. Prerequisite: GEO 110 or 210, 104, 107, 108, 109; or departmental approval. An in-depth study of the geologic processes involved in landform development.

**GLY 409. Igneous & Metamorphic Petrology. (4 Credits)**

A. Course will be offered every odd Fall semester. Prerequisites: GLY 309 and MAT 112 or higher. Nature and origin of common igneous and metamorphic rocks, with emphasis on crystalline rocks. Lab develops the ability to analyze and classify rocks in hand sample and in thin section using a petrographic microscope. 3 Lec/2 Lab.

**GLY 410. Structural Geology. (4 Credits)**

A. Course will be offered every odd Fall semester. Prerequisites: GLY 104, 107, 108, or 109; and MAT 112 (A and B) or higher. Deformation of Earth's crust across a wide range of scale with emphasis on plate tectonics and its consequences. Lab develops the ability to analyze the geometry of deformed rock bodies and solve common structural problems. Course includes a MANDATORY field trip during Fall Break. 3 Lec/2 Lab.

**GLY 415. Sedimentary Geology. (4 Credits)**

A. Course will be offered every odd Fall semester. Prerequisite: GLY 104, 107, 108, 109; MAT 112 (A and B) or higher; or departmental approval. Examination of sedimentary processes and products, the characteristics and origins of sedimentary rocks and their related depositional environments, and application of these principles to solving geological problems. Laboratory develops techniques for describing and interpreting sedimentary rocks, structures, and stratigraphy. Course includes a MANDATORY field trip during Fall Break. 3 Lec/2 Lab.

**GLY 420. Stratigraphy. (4 Credits)**

A. Course will be offered every even Spring semester. Prerequisites: GLY 415 and MAT 112 or higher. Description, correlation, and interpretation of stratified sedimentary sequences; basic identification and interpretation of the fossils they contain. Emphases: rock-vs. time stratigraphy, facies relationships, sequence stratigraphy, event stratigraphy, biostratigraphy, well log correlation. 3 Lec/2 Lab.

**GLY 450W. Evolution of the Earth. (3 Credits)**

A. Course will be offered every odd Spring semester. Prerequisite: ENG 102 or 102R or 105 or HON 102 and GLY 309, 409, 410, 415, or 420, or departmental approval. Overview of geological principles from the perspective of the Earth's history, physical and biological. Emphasis on critical thinking and expressive writing. Credit will not be awarded to students who have credit for GLY 550.

**GLY 451. Field Camp. (6 Credits)**

SUMMER ONLY. Prerequisites: GLY 409 and 410. Field-training course in the northern and central Rocky Mountains (6 weeks). Analysis of rock sequences; geologic mapping of sedimentary, metamorphic, and igneous terrains; interpretation of complex rock deformation; regional geological synthesis with emphasis on tectonics; and visits to many instructive geologic localities, including national parks and monuments.

**GLY 460. Aqueous Geochemistry. (3 Credits)**

A. Prerequisite: GLY 210 or CHE 111 and 111L. Reactions between natural waters, atmospheric gasses and earth materials in surface and near surface environments. Emphasis is placed on consequences of chemical weathering, composition of surface and near surface water, geochemical cycles, and natural and anthropogenic geochemical events. 2 Lec/2 Lab.

**GLY 480. Petroleum Geology. (3 Credits)**

A. Pre/Corequisites: GLY 410 and GLY 420. Use of the petroleum systems paradigm to explore characteristics of economically-viable petroleum accumulations. Examines fundamental activities such as electric logging, mudlogging, and drilling. Exercises and projects model industry practices in recognizing and understanding petroleum accumulations. 2 Lec/ 2 Lab.

**GLY 482. Paleoclimate. (3 Credits)**

A. Prerequisite: GLY 104, 109, 415, GEO 115, 210, or 315; or departmental approval. How the interaction of ocean and atmosphere creates climate in the planet today and leaves its record in geologically accessible Earth materials, with an emphasis on the interpretation of the geological record and how we learn how the Earth's climate has changed in the past.

**GLY 498. Capstone Project in Geology. (3 Credits)**

A. Prerequisite: senior standing and departmental approval. A capstone experience for geology majors that integrates a research experience with the students' professional development and the production of a substantive deliverable product (e.g. poster, conference presentation, geologic map.) Student must have the independent study form approved by faculty supervisor and department chair prior to enrollment.

**GLY 499. Senior Thesis. (3 Credits)**

A. Prerequisites: senior standing and department approval. Supervised, independent thesis project for majors in geology. Thesis project must be approved by faculty supervisor and department committee prior to enrollment in the course. Student must have the independent study form approved by faculty supervisor and department chair prior to enrollment.

**GLY 535. Hydrogeology. (3 Credits)**

A. Course will be offered every odd Spring semester. Prerequisite: GLY 104, 107, 108, or 109; and MAT 112 or higher. Origin, occurrence, movement, utilization, and conservation of groundwater. Qualitative and quantitative presentation of geological, physical, and geochemical aspects of groundwater hydrology. 2 Lec/2 Lab.

**GLY 580. Selected Topics:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: senior standing or departmental approval. Designed to explore specific aspects of geology. May be retaken to a maximum of six hours provided topic is different each time.

**GLY 735. Hydrogeology. (3 Credits)**

A. Course will be offered every odd Spring semester. Origin, occurrence, movement, utilization, and conservation of groundwater. Qualitative and quantitative presentation of geological, physical, and geochemical aspects of groundwater hydrology. 2 Lec/2 Lab.

**GLY 780. Selected Topics:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Designed to explore specific aspects of geology. May be retaken to a maximum of six hours provided topic is different each time.

**GLY 812. Clay Mineralogy. (3 Credits)**

Structure, origin, occurrence, and use of clay minerals. X-ray diffraction techniques and differential thermal analysis used to identify clay minerals.

## GRD Grad Degree Exit Req (GRD)

**GRD 857A. MS Bio 1st Written Comp Exam. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857B. MS Bio 2nd Written Comp Exam. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857C. MS BIO 3rd Written Comp Exam. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857D. MS Applied Comp Written Comp. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857E. MPA Public Admn Written Comp. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857G. MA Hist Written Comp Exam. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857I. MM Music Written Comp Exam. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857J. MS Psy Written Comp Exam. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857K. MS Clinical PSY Writ Comp Ex. (0 Credits)****GRD 857L. MS Ind & Org PSY Writ Comp Ex. (0 Credits)****GRD 857M. School PSY Written Comp Ex. (0 Credits)****GRD 857N. Mathematics Written Comp Exam. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 857R. PsyD Clinical PSY Writ Comp Ex. (0 Credits)****GRD 858A. MS Bio Oral Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858B. MS Chem Oral Defense. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858C. MS Che Written Rpt Exit Requr. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858D. MS Applied Computing Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858F. MFA Creative Wrtg Comp Present. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858G. MPA Public Admn Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858H. MA Hist Oral Comp Exit Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858I. MM Music Oral Comp Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858J. MS Psychology Oral Comp Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858K. MS Clinical PSY Oral Comp Ex. (0 Credits)****GRD 858L. MS Ind & Org PSY Oral Comp Ex. (0 Credits)****GRD 858M. School PSY Oral Comp Exam. (0 Credits)****GRD 858N. Autism Spect Oral Comp Ex. (0 Credits)****GRD 858O. Math Oral Thesis Defense. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 858 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 858P. Clinical Psy Oral Thesis Def. (0 Credits)****GRD 858Q. Indus & Org Psy Thesis Defense. (0 Credits)****GRD 858R. PsyD Clinical PSY Oral Comp Ex. (0 Credits)****GRD 859C. MS Bio 3rd Written Comp Exam. (0 Credits)**

Registration in GRD 857 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 867A. MBA Knowledge Test Exit Exam. (0 Credits)**

Registration in GRD 867 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 867B. MS C&T Ed Written Comp Exam. (0 Credits)**

Registration in GRD 867 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 867C. MS Ind Tech Written Comp Exam. (0 Credits)**

Registration in GRD 867 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 868A. MS C&T Ed Oral Comp Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 868 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 868B. MS Ind Tech Oral Comp Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 868 is required of all graduate students in program for the term in which they wish to take their Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 877A. MAED Elem Ed Written Comp Exam. (0 Credits)**

Registration in GRD 877 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 877B. MAED Mdle Grd Written Comp Ex. (0 Credits)**

Registration in GRD 877 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 877C. MAED Gifted Ed Written Comp Ex. (0 Credits)**

Registration in GRD 877 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 877D. MAED R/W Written Comp Exam. (0 Credits)**

Registration in GRD 877 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 877E. MAED Secnd Ed Written Comp Ex. (0 Credits)**

Registration in GRD 877 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 877F. MAT Mdle Grd Written Comp. (0 Credits)**

Registration in GRD 877 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.



**GRD 878M. MAT Secnd Oral Comp Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878N. MAT Secnd Portfolio Review. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878O. Deaf and Hard of Hearing Portfolio Review. (0 Credits)**

Used in Programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878P. MAT IECE Portfolio Review. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878Q. MAED Instr Ldrshp Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878R. Spe Ed Admin Thesis Defense. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878S. MA M/Health Cnslng Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878T. MA Human Services Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878U. MAED Schl Cnslng Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878V. MAED Spec Ed Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878W. MAED Commun Disorder Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878X. MAED Lib Sciences Oral Comp Ex. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878Y. MAED Lib Sci Port Exit Review. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 878 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 878Z. Ed. D. Oral Defense Exam. (0 Credits)****GRD 887A. MPH Written Comp Exam. (0 Credits)**

Registration in GRD 887 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 887B. MS Exercise and Sport Science Written Comprehensive Exam. (0 Credits)**

Registration in GRD 887 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 887C. MS Community Nutr Comp Exam. (0 Credits)**

Registration in GRD 887 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 887D. MS Exercise and Sport Science Project Oral Defense. (0 Credits)**

Registration in GRD 887 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 887E. MS Rec&Park Written Comp Exam. (0 Credits)**

Registration in GRD 887 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 888A. MPH Oral Comp Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 888 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 888B. MS Nursing Oral Comp Exam. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 888 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 888C. MS Occ Therapy Thesis Defense. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 888 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 888D. MS Exer and Sport Oral Defense. (0 Credits)**

A. Exercise and Wellness Project Review.

**GRD 897A. MS Corr/JJ Stud Written Comp. (0 Credits)**

Registration in GRD 897 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 897B. MS Crim Justice Written Comp. (0 Credits)**

Registration in GRD 897 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 897C. MS SSEM Written Comp Exam. (0 Credits)**

Registration in GRD 897 is required of all graduate students in the program for the term in which they wish to take their comprehensive examination. Prerequisite: Consent of Graduate Advisor.

**GRD 898A. MS Corr/JJ Studies Oral Comp. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 898 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 898B. MS Corr/JJ Stud Thesis Defense. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 898 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 898C. MS Crim Justice Thesis Defense. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 898 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 898D. MS SSEM Thesis Defense. (0 Credits)**

Used in programs that require an exit competency exam different from or in addition to the comprehensive exam. Registration in GRD 898 is required of all graduate students in program for the term in which they wish to take their Exit Competency Exam. Prerequisite: Consent of Graduate Advisor.

**GRD 899. Continuing Enrollment. (0 Credits)**

(0) A. Graduate students with grades of IP in thesis, dissertation, practicum and internship courses without enrollment in any other graduate course(s) will be enrolled in GRD 899 and assessed a Continuing Enrollment Fee of \$100. Registration in GRD 899 is considered as half-time status and grants the student access to University facilities such as libraries and laboratories. Students may enroll in GRD 899 a maximum of three times.

## GSD Student Development (GSD)

**GSD 101. Foundations of Learning. (3 Credits)**

I, II. A course to promote student success and lay the foundation for critical and creative thinking across the curriculum. Open to all first year students with fewer than 30 semester hours earned. Credit will not be awarded to students who have credit for ASO 100, BTO 100, EDO 100, GSD 101Z, GSO 100, HSO 100, or JSO 100.

**GSD 101AR. Foundations of Learning. (3 Credits)**

I, II. A course to promote student success and lay the foundation for critical and creative thinking across the curriculum. Open to all first year students with fewer than 30 semester hours earned. Credit will not be awarded to students who have credit for ASO 100, BTO 100, EDO 100, GSD 101Z, GSO 100, HSO 100, or JSO 100.

**GSD 101Z. Foundations of Learning. (3 Credits)**

I, II. A course to promote student success and lay the foundation for critical and creative thinking across the curriculum. Open to all first year students with fewer than 30 semester hours earned. Credit will not be awarded to students who have credit for ASO 100, BTO 100, EDO 100, GSD 101, GSO 100, HSO 100, or JSO 100.

**GSD 201. Transfer Student Seminar. (1 Credit)**

(1) A. Seminar is for students who enroll with 30-90 hours. Students learn how to navigate campus resources, operate degree audit software, handle transfer credits and abide by Eastern's academic integrity policy. Graded Satisfactory-Unsatisfactory.

**GSD 220. Prior Learning Seminar. (2 Credits)**

A. Prerequisites: ENG 102 or departmental approval. This course is designed to help students identify and document learning gained through life experience or employment that will be assessed for possible college level credit.

**GSD 225. Leadership Dynamics. (1-3 Credits)**

II. The course is designed to introduce current and emerging leaders to leadership theory and development. Attention is given to self awareness, leadership styles, conflict resolution, communication skills, ethics and values and real world experience. Information is provided through class discussion, speakers, group work, journals and case studies. May be retaken to a maximum of three hours provided the subject matter differs.

**GSD 225S. Leadership Dynamics: Service Learning. (1 Credit)**

II. The course is designed to introduce current and emerging leaders to leadership theory and development through a dynamic service learning component including reflective activities, practice in teamwork, and engaging in service for a community partner. Credit will not be awarded to students who have credit for GSD 225. May be repeated up to three hours.

**GSD 250. Exit Requirement AGS. (0 Credits)**

(0) A. Exam for AGS students to evaluate programmatic outcomes, required of all AGS students who have earned at least 45 hours. Credit (CR) will be given when students complete the exam.

**GSD 349. Applied Learning. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349A. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349B. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349C. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349D. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349E. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349F. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349G. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349H. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349I. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349J. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349K. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349L. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349M. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 349N. Cooperative Study. (0.5-8 Credits)**

A. Prerequisite: 2.0 GPA and Program approval. Work under field supervisors in placements related to academic studies. Minimum 80 hours work for each credit hour. Repeatable up to 16 credit hours.

**GSD 399. Professional Skill Development. (3 Credits)**

Prerequisites: Junior standing. Will help students recognize and build skills needed for desired career fields. Topics include: job search, resumes, cover letters, interview skills, and making connections between academic experiences and professional goals.

**GSD 401. McNair Research Symposium. (2 Credits)**

A. Prerequisites: ENG 101 and 102 or ENG 105; MAT 105 or any course above MAT 105. Introduction to research, writing, and expectations concerning research in academic settings. Provides essential information regarding research and writing expectations of graduate students. For McNair scholars only.

**GSD 450. Exit Requirement BGS. (0 Credits)**

(0) A. Exam for senior BGS students to evaluate programmatic outcomes. This exam is required of all BGS students who have earned at least 90 hours. Credit (CR) will be given when students complete the exam.

## GSO Acad Orientation - General (GSO)

**GSO 100. Student Success Seminar. (1 Credit)**

I, II. An orientation to university academic life and career planning and preparation. Topics include university policies and procedures, program requirements, career opportunities, and introductory study skills. Open to all students during their first two semesters of enrollment at EKV; beyond that open to students with fewer than 30 semester hours earned.

**GSO 149. Co-op Professional Seminar. (1 Credit)**

I, II. Prepare students for the job market prior to co-oping. Topics include: self-assessment, communication, resumes and cover letters, interviewing techniques, business etiquette. Credit will not be awarded to students who have credit for CMS 330.

**GSO 149A. Co-Op Professional Seminar. (1 Credit)**

GSO 149 A is designed to introduce rising high school juniors to the job market before coming to college. Topics include self-assessment, communication, resumes, cover letters, interviewing techniques, and business etiquette. Credit will not be awarded for both GSO 149 and CMS 330.

**GSO 149B. Co-Op Professional Seminar. (1 Credit)**

GSO 149 B is designed to prepare rising high school seniors to the job market before coming to college. Topics include self-assessment, communication, resumes, cover letters, interviewing techniques, and business etiquette. Credit will not be awarded for both GSO 149 and CMS 330.

## GST General Studies Tutoring (GST)

**GST 300. Principles of Peer Mentoring/Tutoring. (1-3 Credits)**

I. Prerequisite: Department approval. Students will receive instruction and training in tutoring and mentoring skills and techniques. Students will serve as a peer tutor or mentor and assist with teaching in an assigned section of Academic Orientation for freshmen. The peer tutors and mentors will record, reflect upon and evaluate their associated experiences. May be retaken up to six credit hours.

## HEA Health Education (HEA)

### HEA 202. Community First Aid and CPR. (3 Credits)

I, II. Instruction and practice in first aid and safety procedures. Includes assessment and first aid procedures regarding life-threatening emergencies, injuries, medical emergencies, and rescues. Focus on prevention, as well as first aid. Includes American Red Cross certification in First Aid, Adult CPR with AED, child CPR, and Infant CPR. Credit will not be awarded for both HEA 202 and EMC 102.

### HEA 216. Introduction to Public Health. (3 Credits)

I, II, A. Formerly HEA 316. An introduction to the public health discipline, the health of a population as influenced by social, cultural, behavioral, biological, environmental, and economic factors, and an overview of strategies to protect and promote the health in populations. Credit will not be awarded for both HEA 216 and HEA 316. Gen. Ed. E-5B [SB].

### HEA 285. Health Across the Lifespan. (3 Credits)

I, II. Consideration of the various conditions and factors affecting individual and community health; special emphasis is on responsible decision-making, formulating philosophies, attitudes, and a behavioral understanding necessary to establish health living practices. Gen. Ed. VI. Fulfills University Wellness Requirement.

### HEA 290. Foundations of Health Education. (3 Credits)

II. The history, foundational disciplines, and principles that led to the establishment of health education. The role of health education in the present health care system.

### HEA 300. Infectious Dis. and Public Hea. (3 Credits)

I, II, A. Prerequisite: BIO 100 or higher. This course explores etiology, clinical signs and symptoms, prevention, and treatment of common infectious diseases. The course examines potential health outcomes. The course will incorporate health education, advocacy and communications to inform diverse populations. Credit will not be awarded for HEA 315 and HEA 300.

### HEA 305. Chronic Disease & PublicHealth. (3 Credits)

I,II, A. Prerequisite: BIO 100 or higher. This course explores etiology, clinical signs and symptoms, prevention, and treatment of common chronic diseases. The course examines disease process and potential health outcomes. Students will identify effective health promotion strategies for chronic disease.

### HEA 310. Introduction TO Global Health. (3 Credits)

(3) A. Prerequisite: ENG 102 or 105 or HON 102. Exploration of epidemiological, economic, political, sociological and cultural factors that impact global health with special emphasis on applying public health principles in developing as well as developed countries. Gen. Ed. Element 6.

### HEA 315. Issues in Health and Disease. (3 Credits)

II. Etiology, effects, remediation, and prevention of disease. Nature of health and environmental issues and forces which shape them.

### HEA 320. Introduction to Behavior Change. (3 Credits)

I, II. Examine theories and models of health behavior relevant to health education in individuals and communities. Students analyze influences on behavior, and evaluate strategies for health education.

### HEA 345. Drugs, the Individual, and Society. (3 Credits)

I, II. Effect of drug use and abuse on the individual and society. Personal and community approaches for promoting intelligent decision making regarding drugs.

### HEA 349. Applied Learning in Public Health. (0.5-8 Credits)

A. Prerequisite: departmental approval. Work under faculty and field supervisors in a cooperative placement related to a student's academic studies. Credit varies with hours of employment; one to eight hours per semester or summer. May be retaken to a maximum of 12 hours. Minimum 80 hours employment required for each semester hour credit.

### HEA 349A. Cooperative Study: Public Health. (0.5-8 Credits)

A. Prerequisite: departmental approval. Work under faculty and field supervisors in a cooperative placement related to a student's academic studies. Credit varies with hours of employment; one to eight hours per semester or summer. May be retaken to a maximum of 12 hours. Minimum 80 hours employment required for each semester hour credit.

### HEA 349B. Cooperative Study: Public Health. (0.5-8 Credits)

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

### HEA 349C. Cooperative Study: Public Health. (0.5-8 Credits)

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

### HEA 349D. Cooperative Study: Public Health. (0.5-8 Credits)

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

### HEA 349E. Cooperative Study: Public Health. (0.5-8 Credits)

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

### HEA 349F. Cooperative Study: Public Health. (0.5-8 Credits)

Work under faculty and field supervisors in a cooperative placement related to a student's academic studies.

### HEA 349G. Cooperative Study: Public Health. (0.5-8 Credits)

A. Prerequisite: departmental approval. Work under faculty and field supervisors in a cooperative placement related to a student's academic studies. Credit varies with hours of employment; one to eight hours per semester or summer. May be retaken to a maximum of 12 hours. Minimum 80 hours employment required for each semester hour credit.

### HEA 350. Interpretation of Health Data. (3 Credits)

I. Formerly HEA 450. Understanding graphical, statistical, and research techniques used in health. Developing competencies in analyzing and interpreting research results.

### HEA 375. Family Life Education. (3 Credits)

I. Biophysical and psycho social aspects of sexuality and relationships, with emphasis on choices affecting health and well-being. Focuses on developing skills in teaching and facilitating positive behavior changes for people working in schools and communities.

### HEA 380. Mental Health Education. (3 Credits)

I. Basic needs for mental and emotional wellness. Emphasis in the selection of appropriate activities for promoting mental health through community agencies.

### HEA 410. Social Marketing and Advocacy in Public Health. (3 Credits)

Prerequisites: Senior standing or departmental approval. Introduction to current theory and knowledge in the fields of social marketing and advocacy in public health and application of social marketing and advocacy used for promoting health behavior change strategies.

### HEA 455. Introduction to Epidemiology. (3 Credits)

I, A. Factors that affect the occurrence and courses of diseases; causative agents, susceptible hosts, favorable environments, and the effective use of statistical epidemiological methods.

**HEA 480W. Health Promotion Program Planning. (3 Credits)**

I. Prerequisites: ENG 102 or ENG 105(B) or HON 102, restricted to majors or minors in Health Education or Public Health. A writing intensive course that is an introduction to principles, strategies, and skills which are necessary for the planning and implementation of health education and health promotion programs in a diversity of settings. Credit will not be awarded for both HEA 480W and HEA 480.

**HEA 485. Community Org & Policy Dev. (3 Credits)**

I, II, A. Prerequisite: Junior or senior standing or department approval. An analysis of community organizing and health policy development by examining community culture, the process of community organizing and coalition building, and the formation of a policy strategy to address policy issues affecting population health.

**HEA 490. Evaluation of Health Promotion Programs. (3 Credits)**

I, II. Prerequisite: HEA 480 or departmental approval. This course will provide an introduction to principles, strategies, and skills for the evaluation of health promotion programs in a variety of settings. Credit will not be awarded for both HEA 490 and HEA 580.

**HEA 497. Senior Seminar: Public Health. (3 Credits)**

I, II, A. Formerly HEA 420. Prerequisite or Corequisite: HEA 480W and junior or senior standing. Public Health major or departmental approval. Students will draw together skills and knowledge needed to enter the workforce, and will review core competencies required of the entry level public health professional. Credit will not be awarded for both HEA 420 and HEA 497.

**HEA 498. Community Health Ed. Process. (3 Credits)**

I, II, A. (Formerly HEA 460) Prerequisite or corequisite: HEA 316 or departmental approval. Planning, organizing, delivering, and evaluating the community health education program. Credit will not be awarded for HEA 460 and HEA 498.

**HEA 499. Internship in Public Health. (1-6 Credits)**

I, II, A. Formerly HEA 463. Prerequisites: HEA 420 or 497 or departmental approval. Supervised experiences for seniors in the directing of public health activities in various settings. May be retaken to a maximum of six hours. Credit will not be awarded for both HEA 463 and HEA 499.

**HEA 590. Health Education:\_\_\_\_. (1-3 Credits)**

Study of pertinent problems in health education. Includes topics such as aging, consumer health, child abuse, teenage pregnancy, elementary school health curriculum, drug education, school health services, health deviations among students, sexually transmitted diseases, etc. May be retaken with advisor approval provided subtitle is different.

**HEA 591. Women's Health. (3 Credits)**

A. Cross listed as WGS 591. Analysis of the major health problems of contemporary women with a special emphasis on health promotion, disease prevention, and consumer health concerns. Credit will not be awarded to students who have credit for WGS 591.

**HEA 592. Human Sexuality. (3 Credits)**

A. Cross listed as WGS 592. Study of the biological, social, and psychological aspects of human sexuality. Directed primarily toward those individuals in situations which require them to assist others in understanding the broad impact of one's sexuality. Emphasis is placed upon student development of logical and reasoned justifications for their own value system. Credit will not be awarded to students who have credit for WGS 592.

**HEA 593. Death and Grief. (3 Credits)**

A. Cross listed as WGS 593. A study of attitudes, behaviors, and issues concerning death and grief. Topics include responses to death and grief throughout the life cycle; process of grief and bereavement; theology and death; legal aspects of dying; care of the dying; suicide; post-mortem care; death education. Credit will not be awarded to students who have credit for WGS 593.

**HEA 594. Substance Use Prevention Skill. (3 Credits)**

I, II, A. Prerequisite: Junior or senior standing. A substance use prevention approach using a strategic prevention framework to develop the knowledge and skills needed to plan, implement, and evaluate effective, data-driven programs and practices that reduce behavioral health disparities and improve wellness.

**HEA 790. Health Education:\_\_\_\_\_. (1-3 Credits)**

A. Study of pertinent problems in health and health education. Includes topics such as: health care delivery, child abuse, teenage pregnancy, community health organizations, elementary school health curriculum, drug education, school and health services, health deviations among students, sexually transmitted diseases, etc. May be retaken once with advisor approval provided subtitle is different.

**HEA 791. Women's Health. (3 Credits)**

A. Analysis of the major health problems of contemporary women with special emphasis on health promotion, disease prevention, and consumer health concerns.

**HEA 792. Human Sexuality. (3 Credits)**

A. Study of the biological, social, and psychological aspects of human sexuality. Directed primarily toward those individuals in situations, which require them to assist others in understanding the broad impact of one's sexuality. Emphasis is placed upon student development of logical and reasoned justifications for their own value system.

**HEA 793. Death and Grief. (3 Credits)**

A. A study of attitudes, behaviors, and issues concerning death and grief. Topics include responses to death and grief throughout the life cycle; process of grief and bereavement; theology and death; legal aspects of dying; care of the dying; suicide; post-mortem care; death education.

**HEA 794. Substance Use Prevention Skill. (3 Credits)**

I, II, A. Prerequisite: Junior or senior standing. A substance use prevention approach using a strategic prevention framework to develop the knowledge and skills needed to plan, implement, and evaluate effective, data-driven programs and practices that reduce behavioral health disparities and improve wellness.

**HEA 800. Advanced Health Science. (3 Credits)**

A. Provides students an opportunity to broaden their knowledge of the latest scientific facts and sources of information related to selected health concerns including disease, nutrition, fitness, drug use, family living, and emotional health.

**HEA 804. Drug Abuse & Dependency. (3 Credits)**

I, II. Study of the nature and progression of chemical abuse and dependency and effects on the individual, family, and society. Includes study of strategies for prevention, intervention, and treatment.

**HEA 805. Public Health Communication. (3 Credits)**

(3) A. Prerequisite: MPH 810 with a minimum grade of "C". This course prepares students to develop and evaluate health messages for advocacy, program planning, and health campaigns through the lens of cultural competency including interpersonal, organizational, and mass communication approaches.

**HEA 807. Health:\_\_\_\_\_ (1-3 Credits)**

A. Prerequisite: advisor/departmental approval. Independent work, special topics, or seminars. May be retaken under different subtitles. Topics include first aid and safety for teachers, lifestyle and mental health, and health education for elementary teachers.

**HEA 820. Global Health. (3 Credits)**

II. Overview of the relationship between epidemiological, economic, political, sociological and cultural factors that impact global health. Special emphasis is on methods of prevention/intervention utilized in coping with health problems on an international level.

**HEA 825. Planning & Eval of Hlth Prgms. (3 Credits)**

II. The focus of this course is on the process of assessing a community and on strategies for planning, implementing, and evaluating health promotion programs in a variety of settings.

**HEA 826. Public Health Program Evaluati. (3 Credits)**

(3) A. Prerequisite: MPH 825 or HEA 825 with a minimum grade of "C". The focus of this course is on methods and techniques to evaluate public health policies and programs.

**HEA 856. Applied Epidemiology. (3 Credits)**

A. Prerequisites: HEA 830 and HEA 855 or departmental approval. An applied epidemiology course with emphasis on field investigations, public health surveillance, surveys and sampling, use of computers in epidemiology descriptive epidemiology, designing studies, analysis, interpretation and communication of data, and intervention/control measures.

**HEA 880. Scholarship in Cmmnty Health. (1-3 Credits)**

A. Applied scholarship experience demonstrating synthesis and integration of advanced knowledge and skills in Community Health. Student must have approval of department prior to enrollment.

**HEA 890. Practicum in Community Health. (3-6 Credits)**

A. Student will be placed in a supervised work environment in community health.

**HEA 895. Public Health Capstone Seminar. (3 Credits)**

II. Integration and application of competencies acquired through the MPH program to problems likely to be encountered in public health practice. Current challenges, money, politics, and public health ethics, as they impact the profession, are addressed.

**HEA 897. Thesis. (3-6 Credits)**

A.

**HEA 899. Practicum in Community Health. (3-6 Credits)**

A. Student will be placed in a supervised work environment in community health.

## Higher Education (EHE)

**EHE 807. Prob in Higher Education. (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Independent work, special workshops, selected topics, or seminar. May be retaken under different subtitles to a maximum of six hours.

## HIS History (HIS)

**HIS 098. Intro to World Civilizations. (3 Credits)**

A. A course to meet the PCC deficiency in Social Sciences. This course will emphasize the way in which history is researched and written and will foster an understanding of how other related disciplines assist in historical analysis. This course does not count toward graduation.

**HIS 100. World Topics to 1500:\_\_\_\_. (3 Credits)**

(3) A. Introductory exploration of a broad regional or thematic topic in world history prior to 1500. Credit will not be awarded to students who have credit for HIS 231 or 246. Limit to three credit hours. Gen. Ed. A-5A.

**HIS 101. World Topics Since 1500:\_\_\_\_. (3 Credits)**

(3) A. Introductory exploration of a broad regional or thematic topic in world history since 1500. Credit will not be awarded to students who have credit for HIS 147, 232, or 247. Limited to three credit hours. Gen. Ed. E-5A.

**HIS 102. American Civilization to 1877. (3 Credits)**

(3) A. Formerly: HIS 202. Transition from colonial to independent republic; social, cultural, and economic institutions derived from agrarian conditions; the influence of European foundations. Required of all majors and minors in history. Credit will not be awarded to students who have credit for HIS 202. Gen. Ed. E-5A.

**HIS 103. American Civilization Since 1877. (3 Credits)**

(3) A. Formerly: HIS 203. Conflicts between demands of an industrial society and agrarian values; interrelationships between world expressions and American experience. Required of all majors and minors in history. Credit will not be awarded to students who have credit for HIS 203. Gen-Ed E-5A.

**HIS 204W. Historical Inquiry:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 102 or ENG 105 (B) or HON 102 (B). Introductory exploration of a particular historical problem or theme. Satisfies university's sophomore writing-intensive requirement. Gen Ed VA, VC or VII (SBS).

**HIS 205. The Marginalized in History:\_\_\_\_. (3 Credits)**

(3). A. Introductory exploration of the experiences of specific historically marginalized groups or cultures. May be repeated up to 6 hours as long as content varies. Gen. Ed. Element 6.

**HIS 290. Historical Research and Methods. (3 Credits)**

I, II. HIS majors only. A comprehensive introduction to historical research, writing, and methodologies. Credit not awarded for HIS 201.

**HIS 299W. Research in History & English. (3 Credits)**

A. Prerequisites: ENG 102 or 102R or 105 (B) or HON 102. Cross listed with ENG 299W. Collaboration focusing on disciplinary research methodology and recognizing disciplinary differences in approach by exploring a particular theme from various perspectives. Information literacy, reflection, research, and writing emphasized. This course will not be accepted for History or English non-teaching or teaching major requirements. May be retaken for a maximum of 6 credits, provided the topic differs each time. Credit will not be awarded for both ENG 299W and HIS 299W.

**HIS 300A. Topics in U.S. History:\_\_\_\_. (3 Credits)**

A. Movements in U.S. history that have influenced and continue to influence the course of American culture and civilization. May be retaken to a maximum of six hours provided topics vary.

**HIS 300B. Topics in European History. (3 Credits)**

A. Movements in European history that have influenced and continue to influence the course of European culture and civilization. May be retaken to a maximum of six hours provided topics vary.

**HIS 300C. Topics in Non-Western History:\_\_\_\_. (3 Credits)**

A. Movements in non-Western history that have influenced and continue to influence the course of non-Western cultures and civilization. May be retaken to a maximum of six hours provided topics vary.

**HIS 302A. Research Topics in History:\_\_\_ (3 Credits)**

I, II. Prerequisite or Corequisite: HIS majors only, HIS 290, and ENG 102, 105(B), or HON 102. Historical research and methodologies using case studies of specific movements in U.S. history that have influenced and continue to influence the course of cultures and civilizations. Formerly HIS 302.

**HIS 302B. Research Topics in History:\_\_\_ (3 Credits)**

I, II. Prerequisite: HIS majors only, HIS 290, and ENG 102, 105(B) or HON 102. Historical research and methodologies using case studies of specific movements in European history that have influenced and continue to influence the course of cultures and civilizations. Formerly HIS 302.

**HIS 302C. Research Topics in History:\_\_\_ (3 Credits)**

I, II. Prerequisite or Corequisite: HIS majors only, HIS 290, and ENG 102, ENG 105(B), or HON 102. Historical research and methodologies using case studies of specific movements in Non-Western history that have influenced and continue to influence the course of cultures and civilizations. Formerly HIS 302.

**HIS 303. Women in American History. (3 Credits)**

A. Cross listed as WGS 303. Prerequisite: three hours HIS or department approval. Social, economic, and cultural role of women in America. Women's work; social position and status; women in reform movements; feminism and the suffrage movements; the new feminism. Credit will not be awarded to students who have credit for WGS 303.

**HIS 304. Slavery in the Americas. (3 Credits)**

A. Cross listed as AFA 304. Prerequisite: three hours HIS or departmental approval. The history of slavery, bound labor, and freedom in the Western Hemisphere. Special attention will be given to anti-slavery and abolitionist movements. Credit will not be awarded to students who have credit for AFA 304.

**HIS 305. African-American History. (3 Credits)**

A. Cross listed as AFA 305. Prerequisite: three hours HIS or department approval. African history to 1500; Europe, Africa, and the Americas; trans-Atlantic and domestic slave trades; American slavery; emancipation; post-emancipation experiences and initiatives; persistence of black nationalism. Credit will not be awarded to students who have credit for AFA 305.

**HIS 307. Religion in American History. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105 (B), or HON 102. Examination of the impact of religious issues upon American history, including units on such questions as church-state relations and the role of religion in American perspectives on culture, ethnicity, gender, and social and economic change. Credit will not be awarded for both HIS 307 and HIS 300A: Religion in American History.

**HIS 308. Native Americans to 1830. (3 Credits)**

A. Prerequisite: ENG 102, 105 (B), or HON 102. Native American history from pre-contact to the Indian Removal Act of 1830. Emphasis placed on the nature and impact of encounters with Europeans.

**HIS 309. Native Americans since 1830. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105 (B), HON 102. Native American history from the Indian Removal Era to the present. Emphasis placed on both native perspectives and federal policies.

**HIS 310. History of Science. (3 Credits)**

A. The development of scientific concepts through the ages, contribution of science to civilization, philosophy of science, and biographical sketches. Credit will not be awarded for both HIS 310 and SCI 310.

**HIS 312. Independent Study in History. (3 Credits)**

A. Individual research and/or reading on a problem area in history. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**HIS 312A. Independent Study in History:\_\_\_ (3 Credits)**

A. Individual research and/or reading on a problem area in U.S. history. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**HIS 312B. Independent Study in History:\_\_\_ (3 Credits)**

A. Individual research and/or reading on a problem area in European history. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**HIS 312C. Independent Study in History:\_\_\_ (3 Credits)**

A. individual research and/or reading on a problem area in Non-Western history. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**HIS 319. Topics in 20th Century U.S. History:\_\_\_ (3 Credits)**

(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of the United States during the Twentieth Century. May be retaken to a maximum of six hours provided topics vary.

**HIS 321. Islamic Societies to 1800. (3 Credits)**

Prerequisite: ENG 102, 105 (B), or HON 102. Islamic societies in the Middle East, Central and Southern Asia, North Africa, and Spain from seventh to eighteenth century. Origins and spread of Islamic civilization. Spiritual foundations, institutions, politics, and art. Florescence of "gunpowder empires."

**HIS 322. History of the Modern Middle East. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105 (B), HON 102. Study of the history of the modern Middle East from the close of the 18th century to the present, with emphasis on the religious, social, cultural, and political dimensions of societies in the region.

**HIS 324. Iran- State, Religion & Society. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), or HON 102. Iran from ancient to contemporary times with the emphasis on the modern period, with particular attention to politics, religion, and culture. Zoroastrianism, Islam, Tobacco Revolt, Constitutional Revolution, the Pahlavis and the 1953 coup, Islamic Revolution.

**HIS 331. Topics in Ancient Egypt/Near Eastern History:\_\_\_ (3 Credits)**

(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of Ancient Egypt or the Near East (including Iraq, Iran, Turkey, and Israel) from the earliest human activity to the Greco-Roman Period. May be retaken to a maximum of six hours provided topics vary.

**HIS 336. Greco-Roman Civilization. (3 Credits)**

A. Prerequisite: ENG 102, 105 (B), or HON 102. Greek society and culture; emergence of the Roman Republic; the Roman Empire.

**HIS 339. The Dark Ages Illuminated. (3 Credits)**

A. Prerequisite: ENG 102, 105 (B), or HON 102. The collapse of the Classical world; the Germanic migrations; early Byzantine and Islamic civilizations; the Carolingians; the church and society; feudalism; commercial and urban revival; the rise of territorial states and the beginnings of European expansion.

**HIS 343. The Renaissance & Reformation. (3 Credits)**

A. Prerequisites: ENG 102, 105(B), or HON 105I. European society, culture, economy and politics, 1348-1689. "Black Death" and its impact; Italian Renaissance humanism and art; Christian humanism and European expansion in the age of Columbus; Protestant and Catholic reform movements; religious wars. Credit will not be awarded to students who have credit for HIS 344.

**HIS 349. Applied Learning in History. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Does not apply toward a major or minor in history. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**HIS 349A. Cooperative Study: History. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Does not apply toward a major or minor in history. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**HIS 349B. Cooperative Study: History. (0.5-8 Credits)**

Does not apply toward a major or minor in history. Work in placements related to academic studies.

**HIS 349C. Cooperative Study: History. (0.5-8 Credits)**

Does not apply toward a major or minor in history. Work in placements related to academic studies.

**HIS 351. Topics in English History:\_\_\_\_. (3 Credits)**

(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of England. May be retaken to a maximum of six hours provided topics vary.

**HIS 359. Topics in Modern European History:\_\_\_\_. (3 Credits)**

(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of Modern Europe since 1648. May be retaken to a maximum of six hours provided topics vary.

**HIS 361. Topics in the History of Eurasia:\_\_\_\_. (3 Credits)**

(3). A. Prerequisite: ENG 102, 105 (B), or HON 102. Important issues and events in the history of Eurasia. May be retaken to a maximum of six hours provided topics vary.

**HIS 365. Russia-Revolutions & Reform. (3 Credits)**

A. Prerequisites: ENG 102, 105(B), or HON 102. Cultural, social, economic and political events leading to the 1917 Revolution. The history of the Soviet Union including its break-up into independent states.

**HIS 370. World History Since 1945. (3 Credits)**

(3) A. Formerly HIS 347. Prerequisites: ENG 102, 105(B), or HON 102. Global consequences of World War II, the Cold War, decolonization, and superpower interventionism. The transition from a bipolar to a multipolar international system, the collapse of communism, and the spread of terrorism. Credit will not be awarded to students who have credit for HIS 347.

**HIS 374. East Asian History to 1600. (3 Credits)**

A. Prerequisites: ENG 102, 105 (B), or HON 102. China and Japan from the beginnings of East Asian civilization in Neolithic times to the early modern period; the development of key social, economic, and political institutions; the Confucian tradition and the introduction of Buddhism; the Mongol era; the late imperial order in China and the emergence of Japanese feudalism.

**HIS 376. Japan-Samurai to Superpower. (3 Credits)**

A. Formerly HIS 475. Prerequisites: ENG 102, 105(B), or HON 102. Japan from 1600 to the present. Included will be the arrival of the West, industrialization, militarism, World War II, and Japan as economic superpower. Credit will not be awarded to students who have credit for HIS 475.

**HIS 379. China- Empire and Revolution. (3 Credits)**

A. Formerly HIS 474. Prerequisites: ENG 102, 105(B), or HON 102. Han Chinese dissent and collaboration under Qing (Manchu) rule; conflicts with the West; rapid economic and cultural change; Revolution of 1911; Nationalist-Communist civil war and Japanese Occupation; Great Leap Forward, Cultural Revolution, and Tiananmen Square. Credit will not be awarded to students who have credit for HIS 474.

**HIS 384. Modern Latin America Modern Latin America. (3 Credits)**

A. Prerequisites: ENG 102, 105 (B), or HON 102. The national period in Latin American history, with emphasis on dependency theory, Roman Catholicism in the region, and United States-Latin American relations.

**HIS 385. Early African History. (3 Credits)**

A. Cross listed as AFA 385. Prerequisites: ENG 102, 105 (B) or HON 102. History of Africa from earliest times to 1860. Emphasis on social, political, economic, and cultural change in states and societies; oral tradition; the environmental and human activities; slavery and the slave trades. Credit will not be awarded to students who have credit for AFA 385.

**HIS 386. Modern African History. (3 Credits)**

A. Cross listed as AFA 386. Prerequisite: ENG 102, 105 (B) or HON 102. History of Africa from the 19th century to the present. Themes include: trade and politics; European conquest and African resistance; rural survival and urban popular culture; race, class, gender, ethnicity, and age; African nationalism and independence. Credit will not be awarded to students who have credit for AFA 386.

**HIS 401. American Colonial Period. (3 Credits)**

A. Prerequisite: three hours HIS or department approval. Political and social history of the 13 colonies and their neighbors; European background; settlement; westward expansion; intercolonial conflicts; beginnings of culture; colonial opposition to imperial authority.

**HIS 402. Revolutionary America. (3 Credits)**

A. Prerequisite: three hours HIS or department approval. Colonial background of Revolution; internal and external nature of Revolution; problems associated with Confederation; events leading to the American Constitution.

**HIS 405. America's Westward Expansion. (3 Credits)**

A. Prerequisite: three hours HIS or department approval. Examination of pre-contact, colonial, and American western histories; role of Indigenous peoples; migration and immigration; extractive industries; federal authority.

**HIS 413. Cold War U.S., 1945-1991. (3 Credits)**

A. Prerequisites: ENG 102, 105(B), or HON 102; three hours HIS or department approval. Cold War competition from a U.S. perspective. Covers Keynesian and Supply-Side economics, and organized labor. Containment in Europe and the Third World, emphasizing Vietnam. Impact of race, gender, and sexuality on culture and society.

**HIS 416. Kentucky History. (3 Credits)**

(3) A. Prerequisite: ENG 102, 105 (B), or HON 102, three hours HIS, or departmental approval. Kentucky's social, economic and political development from frontier times to the present day. The Kentucky experience of such national trends as migration, urbanization, industrialism and expanding government. Credit will not be awarded for both HIS 416 and HIS 516.

**HIS 420. Appalachia in U.S. History. (3 Credits)**

A. Cross listed as APP 420. Prerequisites: ENG 102, 105(B), or HON 102; three hours HIS or department approval. The relationship between Appalachia and the rest of the United States. Topics include the "yeoman" myth, coal industrialization, settlement houses, company towns, and the identification of the region with poverty. Credit will not be awarded to students who have credit for APP 420.

**HIS 424. Civil War and Reconstruction. (3 Credits)**

A. Prerequisite: three hours HIS or department approval. Civil War era explored through culture, politics, society, the military, race, gender, and sexuality. Emphasis on the role of slavery and race in the antebellum sectional crisis, the war, Reconstruction, and memory.

**HIS 435. U.S. Civil Rights Movement. (3 Credits)**

A. Cross listed as AFA 435. Prerequisites: three hours HIS or departmental approval. Examination through primary and secondary sources of the origins, course, ideologies, and legacy of the mid-twentieth century American movement for racial justice and equality. Discussion of the central scholarly issues in civil rights studies. Credit will not be awarded to students who have credit for AFA 435.

**HIS 450W. Senior Seminar in History. (3 Credits)**

A. Prerequisites: ENG 102, 105 (B) or HON 102; HIS major; HIS 200, 201, or 290; and six hours of the following: HIS 302A, 302B, 302C. Research and writing in History. Credit not awarded to students who have credit for HIS 450.

**HIS 800. Historiography and Criticism. (3 Credits)**

A. A seminar in the history and theory of historical writing and fundamental techniques of the historian.

**HIS 802A. Historical Research and Writin. (3 Credits)**

(3). Prerequisite or Corerequisite: HIS 800. Historical research and methodologies using case studies of specific events in U.S. history that have influenced the development of cultures and civilizations.

**HIS 802B. Historical Research in Writing. (3 Credits)**

(3) Prerequisite or Corerequisite: HIS 800. Historical research and methodologies using case studies of specific events in European history that have influenced and continue to influence the development of cultures and civilizations. Course may be retaken to a maximum of 9 hours provided the subject matter differs each time.

**HIS 802C. Historical Research and Writin. (3 Credits)**

(3.) A. Prerequisite or Corerequisite: HIS 800. Historical research and methodologies using case studies of specific events in non-Western history that have influenced and continue to influence the development of cultures and civilizations. Course may be retaken to a maximum of 9 hours provided the subject matter differs each time.

**HIS 838. Practicum in Applied History. (3 Credits)**

A. Prerequisite: departmental approval. Supervised practice in applied history settings. Selective participation varies with the student's program and participation. May be retaken at the discretion of the department. Three credit hours will require approximately 150 hours of supervised practice plus completion of an independent research project over the course of a semester. Maximum of three credit hours may be applied to the M.A. program in history for students in Thesis or Non-Thesis Plan. Credit up to nine hours awarded toward degree if in Applied History Plan.

**HIS 839. Co-op Study in Applied History. (1-3 Credits)**

Prerequisite: Departmental approval; must have been admitted to Masters in history program. Work in placement related to applied history. One to three hours credit per semester or summer. A minimum of 80 hours employment required for each semester hour credit. May be retaken for a maximum of 3 hours. Credit up to 6 hours awarded toward degree if in Applied History Plan. Credit may not otherwise be substituted for any M.A. requirements.

**HIS 840. HIS Topics for 4th-8th Grd Tch. (3 Credits)**

(3) A. Seminar on selected topics in history specifically related to 4th through 8th- grade social-studies curriculum. Course may be retaken to a maximum of 9 hours provided the subject matter differs each time. Course is not open to History M.A. students or to secondary-education teachers. Course cannot be used to fulfill requirements for a History M.A.

**HIS 849. Reading and Research:\_\_\_\_\_. (3 Credits)**

A. Independent study in a specific field. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**HIS 860. Readings in American History.. (3 Credits)**

A. Seminar on selected developments in American history. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**HIS 861. Readings in European History.. (3 Credits)**

A. Seminar on selected developments in European history. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**HIS 862. Reading in Asian/African His:\_. (3 Credits)**

A. Seminar on selected developments in Asian or African history. May be retaken to a maximum of nine hours, provided subject matter differs each time.

**HIS 863. Readings in Latin American His. (3 Credits)**

A. Seminar on selected developments in Latin American history. May be retaken to a maximum of nine hours, provided subject matter differs each time.

**HIS 864. Comparative History:\_\_\_\_\_. (3 Credits)**

A. Seminar on issues in comparative history. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**HIS 865. Conceptualizing History:\_\_\_\_\_. (3 Credits)**

A. Analysis of recent trends in the teaching and conceptualizing of world history, western civilization, and/or U.S. History. May be retaken to a maximum of nine hours, provided the subject matter differs each time.

**HIS 899. Thesis. (3-6 Credits)**

May be retaken to a maximum of six hours.

**HIS 899C. Thesis Continuation. (3-9 Credits)**

I, II. Prerequisite: departmental approval. Continuation of research leading to thesis as directed by the chair of the thesis committee. Student must already have registered for six hours of HIS 899. May not be used to satisfy degree program requirement.

## HLS Homeland Security (HLS)

**HLS 101. Introduction to Homeland Security. (3 Credits)**

A. Principles and practices associated with the emerging discipline of homeland security. Policies, directives, national plans, and legislation that shape and define the ongoing evolution of homeland security. Key issues including civil liberties and diversity. Relationship to public safety, private security, and national security.

**HLS 210. Cyber and Physical Security. (3 Credits)**

A. Principles of cyber and physical design and application to include assessments and subsequent identification of countermeasures as well as policy development and implementation in an effort to safeguard life and critical infrastructure. Credit will not be awarded for both APS 210 and SEC 210.

**HLS 260. Disaster Preparedness & Response. (3 Credits)**

A. Examines disaster preparedness and response context, concepts, theories, principles, programs and requirements. Students apply course concepts using case studies and real-world scenarios. Formerly HLS 451.

**HLS 280. Mis-, Dis-, and Malinformation. (3 Credits)**

A. Examines Mis-, Dis-, and Malinformation (MDM) from a homeland security perspective. Students build skills in assessing and evaluating information from social media and other information sources.

**HLS 301. Critical Infrastructure Protection. (3 Credits)**

A. Identification, prioritization, and protection of critical infrastructure including information technology, telecommunications, chemical, transportation, energy, water, medical, emergency services, postal and shipping. Impact on personal safety and economic performance.

**HLS 310. Personnel Security. (3 Credits)**

(3) A. Formerly SEC 250. Examines employee and contractor integrity through background screening, security awareness, ethics programs, and audits. Analyzes special programs to protect key personnel, employees in high risk environments and workplace violence mitigation. Credit will not be awarded to students who have credit for SEC 250.

**HLS 320. Security Management. (3 Credits)**

A. Prerequisite: Junior or Senior standing or departmental approval. Evolution and application of traditional and current theories in leading and managing corporate and government/industrial security operations. Areas covered include management, supervision and leadership of a security organization.

**HLS 349. Applied Learning in HLS. (0.5-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 349A. HLS Cooperative Study. (1-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 349B. HLS Cooperative Study. (0.5-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 349C. HLS Cooperative Study. (0.5-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 349D. HLS Cooperative Study. (0.5-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 350. Workplace Investigations. (3 Credits)**

A. Prerequisite: Junior or Senior standing or departmental approval. Overview and management of criminal, civil, administrative, and internal investigative processes in the workplace, to include interviews, reports, and ethical and legal considerations related to investigations.

**HLS 391. Risk Analysis. (3 Credits)**

A. History and process of risk analysis and management as it relates to the protection of critical assets and infrastructure. Instruction in common techniques used in both the public and private sectors.

**HLS 395. Policy and Legal Analysis. (3 Credits)**

A. Develop homeland security policy and legal research and analysis skills. Includes coverage of international and U.S. federal, state and local policy, legal and ethical issues.

**HLS 395W. Homeland Sec. Policy Analysis. (3 Credits)**

A. Prerequisites: HLS 101, HLS 210, and HLS 260; ENG 102 or 102R or HON 102 with a minimum grade of "C" or ENG 105 with a minimum grade of "B"; and HLS major or departmental approval. Develop homeland security policy and legal research and analytic skills. Includes coverage of international and U.S. federal, state and local policy and legal issues.

**HLS 400. Evolution of the U.S. Intelligence Community. (3 Credits)**

A. Evolution of the US intelligence community from the American Revolution to today.

**HLS 401. Intelligence Process. (3 Credits)**

A. Key questions facing the U.S. intelligence community and its role in homeland security, national defense, and international affairs, with a focus on policy, oversight and intelligence support. Collection, analysis, sharing and dissemination of information within and between local, state, and federal government agencies and the private sector.

**HLS 402. Counterintelligence. (3 Credits)**

A. History, structure and operations of the US counterintelligence community. Includes legal foundations of counterintelligence and critiques of recommended changes to the community.

**HLS 403. Intelligence Analysis. (3 Credits)**

(3) A. Examines processes used at local, state and federal levels to conduct intelligence analysis and develop intelligence products. Includes advanced instruction in intelligence structured analytic techniques.

**HLS 430. Terrorism and Violent Extremism. (3 Credits)**

A. Coverage of politically-motivated extremist violence in the United States. Includes discussion of definitional issues, radicalization, major attacks, current threats, and principal extremist groups and ideologies.

**HLS 435. HLS Special Topics. (3 Credits)**

A. Study of contemporary issues and special topics in homeland security. May be retaken to a maximum of twelve hours under different subtitles.

**HLS 441. Homeland Security Technology. (3 Credits)**

A. Broad overview of homeland security technology. Technology as a tool to support homeland security regardless of functional specialty. Contribution of technology to deterrence, preemption, prevention, protection, and response.

**HLS 445. HLS Field Experience. (1-12 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, and a minimum of 30 hours completed. This course is designed to broaden the educational experience through appropriate observational work assignments in cooperating agencies. A minimum of 80 hours of observation is required for each academic credit. May be retaken to a maximum of twelve hours.

**HLS 455. HLS Independent Study. (1-6 Credits)**

A. Prerequisites: Department Chair approval, a minimum GPA of 2.0, a minimum of 30 hours completed. Individual reading and research on a problem within the field of homeland security. Students must have independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

**HLS 461. Disaster Resilience. (3 Credits)**

A. Concepts, theories, principles, programs, and requirements or pre- and post-disaster hazard mitigation; governmental programs, planning and practice; hazard and threat modeling and analysis; team building; case studies; project development.

**HLS 465. Unconventional Threats and Responses. (3 Credits)**

(3) A. The course addresses concepts, theories, laws and authorities, principles, programs, and requirements associated with unconventional threats to our nation that most likely would result in mass casualties, and pose large-scale responses and cascading threats.

**HLS 491. Disaster Planning and Exercises. (3 Credits)**

(3) A. Prerequisite: HLS 260. Emergency planning requirements, methods and applications for all levels of government and business, including hazard mitigation and emergency operations planning; also considers planning for universities, colleges and secondary schools.

**HLS 495. Leadership and Ethics. (3 Credits)**

A. Prerequisite: Senior standing or departmental approval. Examines theories and practical applications of leadership and ethical decision making. Senior capstone course requiring synthesis of prior course work in homeland security.

**HLS 800. HLS and Emergency Management. (3 Credits)**

A. Organization, missions and critical issues in US homeland security and emergency management. Focuses on developing professional skills in critical thinking, policy analysis and ethics.

**HLS 810. Infrastructure Protec and Risk. (3 Credits)**

A. Foundations for providing security and resilience to the nation's critical infrastructure with an emphasis on risk management.

**HLS 820. Security Intelligence. (3 Credits)**

A. Principles of security intelligence and applications to private sector security, risk, and resilience efforts as well as operational models in an effort to safeguard physical, cyber, and human assets and to enable informed decision-making.

**HLS 830. Long-Term Disaster Resilience. (3 Credits)**

A. Explores disaster trends and problems, as well as community wide mitigation and preparedness strategies aimed at reducing the impacts of natural hazards and achieving long-term disaster resilience.

**HLS 831. Unconventional Threats and Res. (3 Credits)**

A. Formerly SSE 831. The course addresses concepts, theories, laws and authorities, principles, programs, and requirements associated with unconventional threats to our nation that most likely would result in mass casualties and pose large-scale responses and cascading threats.

**HLS 835. Intergov Rltns in Disaster Mgt. (3 Credits)**

A. Analysis of intergovernmental relations and disaster policies across all phases of emergency management with a focus on disaster response and recovery. Systems are investigated through critical thinking, case studies, and comparative analysis methodologies.

**HLS 850. Foundations of Cybersecurity M. (3 Credits)**

A. Identification and application of private sector cybersecurity management principles as well as the analysis and application of national cybersecurity policies and frameworks. Concentration on cyber intrusion prevention, response and recovery from a management perspective.

## HON Honors Program (HON)

**HON 100. Engaging in Honors. (1 Credit)**

I. Orientation and introduction to the honors community and fundamental aspects of honors life, preparing for academic and professional success, and learning to document experiences via the honors portfolio. Prerequisite: Admission to the ECU Honors Program.

**HON 101. The Examined Life. (3 Credits)**

I. Prerequisite: Admission to the ECU Honors Program or the ECU E-Campus Honors Certificate program. Engagement with historical and recent memoirs, diaries, and philosophical reflections. Students develop fundamental skills in critical and creative thinking, research, and communication. Research project requires use of library resources and development of a cogent argument. Gen. Ed. 3B.

**HON 102. Honors Rhetoric. (6 Credits)**

I. Prerequisite: Admission to the Honors Program or instructor approval. Co-requisite: HON 103. Designed, with HON 103, to improve skills in writing, reasoning, oral presentation, and research, through the study of significant works of literature, philosophy, and social and cultural history from the ancient to the modern world. Each student will do a research paper that requires both significant use of library resources and the development of a cogent line of argument. Gen. Ed. Element 1A & 1B, or 3B [WC][WG].

**HON 103. Honors Communication. (3 Credits)**

I. Prerequisite: Admission to the Honors Program or program approval. Corequisite: HON 102. Designed, with HON 102, to improve skills in writing, reasoning, oral presentation, and research. Each student will learn the principles and practice of the art of public speaking including the invention, organization, style, and delivery of informative and persuasive speeches. Gen. Ed. Element 1A, 1B, & 1C.

**HON 104. Honors Exploration:\_\_\_\_\_ (3 Credits)**

(3). Interdisciplinary exploration of topics such as Health and Community, Social Justice and the Law, Environmental Sustainability, Arts and Communities, Science and Society. Students work collaboratively to identify important problems, seek solutions, and undertake individual or group projects that culminate in a presentation. Prerequisite: Admission to the honors program.

**HON 301. Self and Community. (3 Credits)**

I. Prerequisite: HON 101. Interdisciplinary examination of the meanings of participation in local, national, and global communities. Topics may include matters such as political engagement, leadership, compassion, empathy, inequality, stratification, race, and gender. Gen. Ed. 5B.

**HON 302. Honors Option. (0 Credits)**

A. Prerequisites: HON101 and HON 301. Taken in conjunction with a course at or above the 300- level in which student is simultaneously enrolled. Student completes a substantial project that places lessons and meanings of the upper-division course in the context of a philosophical, ethical, social, and/or civic issue studied in HON 101 and/or HON 301. Student must earn a "B" or better on project for HON 302 in order for it to count for credit toward the Honors Certificate.

**HON 304S. Special Topics. (3 Credits)**

A. A service-learning topics course meeting the goals of the Honors Program. A non-service-learning version of HON 304S may also be offered. Students may earn up to six hours from any combination of HON 304/304S, providing the topics differ. Gen. Ed VII (QS).

**HON 304W. Honors Seminar in the Mathematics Sciences:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or 105(B) or HON 102 and Admission to the Honors Program; and completion of all University developmental requirements; or departmental approval. A topics course in the mathematical sciences meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Gen. Ed. E#2 [QR].

**HON 307W. Honors Seminar in the Arts:\_\_\_\_. (3 Credits)**

A. Prerequisite: 101 or 101R or 105(B) or HON 102 and Admission to the Honors Program; or departmental approval. A topics course in the arts meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Gen. Ed. Element 3A.

**HON 308W. Honors Seminar in the Humanities:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or 105(B) or HON 102 and Admission to the Honors Program; or departmental approval. A topics course in the humanities meeting the goals of the Honors Program. may be retaken with different topics to a maximum of six hours. Honors Core. Gen. Ed. Element 3B.

**HON 310W. Honors Seminar in History:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or 105(B) or HON 102 and admission to the Honors Program; or departmental approval. A topics course in history meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Honors Core. Gen Ed. Element 5A.

**HON 312W. Honors Seminar in the Social and Behavioral Sciences:\_\_\_\_. (3 Credits)**

A. Prerequisites: ENG 101 or 101R or 105(B) or HON 102 and Admission to the Honors Program; or departmental approval. A topics course in the social and behavioral sciences meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Gen. Ed. E#5B [SB].

**HON 317. Honors Seminar in the Natural Sciences:\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 101 or 101R or 105 (B) or HON 102 and Admission to the honors program; or departmental approval. A topics course in the natural sciences meeting the goals of the Honors Program. 2 Lec./2 Lab. Honors Core. Gen Ed. E-4.

**HON 320W. Honors Seminar in Diversity of Perspectives and Experiences:\_\_\_\_. (3 Credits)**

A. Prerequisite: Admission to the Honors Program or departmental approval and ENG 101 or 101R or 105(B) or HON 102. A topics course in the diversity of perspectives and experiences meeting the goals of the Honors Program. May be retaken with different topics to a maximum of six hours. Honors Core. Gen Ed. Element 6.

**HON 390. Directed Topics in Honors. (1-3 Credits)**

A. Prerequisite: approval of honors program director. Specialized study of selected topics usually culminating in an official presentation at a conference such as the annual meeting of the National Collegiate Honors Council. Student must have the special topics proposal form approved by a faculty mentor prior to enrollment. May be retaken with different topics to a maximum of three hours.

**HON 391. Honors Portfolio. (1 Credit)**

A. Prerequisites: HON 101 and HON 301. Prerequisite or Co-requisite: HON 302. Production of a portfolio that reflects and demonstrates the ways in which the student's experiences in higher education have met and corresponded with the specified learning goals of the Honors Certificate program.

**HON 401. Honors Innovation Lab:\_\_\_\_. (3 Credits)**

Prerequisite: Admission to the Honors Program or departmental approval and ENG 102 or 102R or 105(B) or HON 102 and at least one 300-level HON course. Students collaborate to develop innovative approaches to address specific community problems or needs. Students learn applied creative practices to identify relevant issues, readings, stakeholders, and effective solutions. May be retaken with different topics to a maximum of six hours.

**HON 402. The Creative Imagination:\_\_\_\_. (3 Credits)**

Prerequisite: Admission to the Honors Program or departmental approval and ENG 102, 102R, 105 (B), or HON 102 and at least 3 credit hours of HON upper-division credit. Students study and engage in various creative approaches to an artistic and literary theme. Students present contemporary and historical approaches and collaborate on new and innovative approaches. Specific themes for the course are rotating. May be retaken with different topics to a maximum of six hours.

**HON 403. Science, Ethics, and Big Ideas:\_\_\_\_. (3 Credits)**

Prerequisite: Admission to the Honors Program or departmental approval and ENG 102 or 102R or 105(B) or HON 102 and at least one 300-level HON course. An in-depth examination of a scientific issue or issues of paramount significance in contemporary society. Emphasis is on the scientific details of the issue or issues as well as social, civic, and political ramifications. May be retaken with different topics to a maximum of six hours.

**HON 404. Honors Inter-professional Health Sciences Seminar:\_\_\_\_. (3 Credits)**

(3)A. Prerequisites: ENG 102 or ENG 105(B) or HON 102; At least three hours of HON upper-division credit. Honors Program advanced seminar course designed to provide honors students in health sciences and related majors with a collaborative interprofessional experience. Biological, psychosocial, cultural, economic, legal, political, environmental, and technology factors surrounding health. Course focuses on a specific theme each semester it is taught.

**HON 420. Thesis Project and Seminar. (3,6 Credits)**

I, II. An in-depth thesis or major project, approved by the honors director, and presented in a suitable format within the seminar. May be retaken for a maximum of 6 credit hours.

## HSA Health Services Admin (HSA)

**HSA 100. Health Care Delivery Systems. (3 Credits)**

I, II. Overview of U.S. health care: history, factors influencing health and health care, identification and organization of health facilities and professionals, health economics, health trends, and ethics.

**HSA 200. Medical Terminology. (3 Credits)**

I, II. Formerly Mas 200. Basic medical vocabulary consisting of prefixes, suffixes, roots, anatomical, symptomatic, and common disease terms of body systems.

**HSA 302. Organization and management of Health Services. (3 Credits)**

I, II. Prerequisite: HSA 100 (minimum grade of "C") and a minimum 2.75 EKU GPA. Analysis of structure function, and internal and external forces impacting healthcare services. Identification of management topics and trends.

**HSA 303. Fundamentals of Medical Science. (3 Credits)**

I, II. Formerly HSA 203. Prerequisites: HSA 200, BIO 307 and BIO 308 each with a minimum grade of "C" and a minimum 2.75 EKU GPA. An introduction to the study of disease its causes, symptoms, and treatment.

**HSA 306. Clinical Classification Systems. (3 Credits)**

I, II. Prerequisite: HSA 302 and 303 with a minimum grade of "C" or departmental approval. Clinical classifications, coding and reimbursement systems for physician and hospital services.

**HSA 370. Health Information Management. (3 Credits)**

I, II. Prerequisite: HSA 302. Prerequisite or Co-requisite: INF 314 with a minimum grade of C. Health information systems, systems analysis, and healthcare database management.

**HSA 372. Health Care Reimbursement. (3 Credits)**

I, II. Prerequisite: HSA 302 and 306 (minimum grade of  $\zeta C\zeta$ ). An in-depth analysis of health care reimbursement systems; health insurance fraud and abuse; and procedures for patient accounting and cash flow forecasting.

**HSA 375. Health Services Administration. (3 Credits)**

I, II. Prerequisites: MGT 301 or 300; HSA 302 (minimum grade of "C"). Prerequisite or co-requisite: MGT 320 or POL 376. Application of financial principles, strategic planning, marketing, and leadership skills to selected health care organizations.

**HSA 401. Legal Issues in Health Care. (3 Credits)**

I, II. Prerequisite: HSA 100 minimum grade of "C" and a minimum 2.75 EKU GPA. Overview of U.S. legal system, patient privacy, and liability related to medical records and health care issues.

**HSA 405. Clinical Information Management. (3 Credits)**

I, II. Prerequisites: HSA 370 (minimum grade of "C"). Review of health trends related to the management of clinical information systems.

**HSA 406. Health Care Quality Management. (3 Credits)**

I, II. Prerequisites: HSA 302, STA 215, or 270 (each with a minimum grade of "C"). A study of total quality management, utilization review, and risk management functions in a health care setting.

**HSA 407. Advanced Health Services Administration. (3 Credits)**

I, II. Prerequisite: HSA 375 (minimum grade of  $\zeta C\zeta$ ). Advanced study in trends relating to the management of health care organizations and the leadership role of health services administrators.

**HSA 409. Health Services Research Meth. (3 Credits)**

I, II. Prerequisites: HSA 302, STA 215, or 270 (each with a minimum grade of "C"). Introduction to health care research methods, related terminology and statistical techniques.

**HSA 409W. Health Services Research Methods. (3 Credits)**

I, II. Prerequisites: ENG 102 or 102R, 105(B), or HON 102, HSA 302, STA 215 or 270 with a minimum grade of C. Introduction to health care research methods, related terminology and statistical techniques. Credit will not be awarded for both HSA 409 and HSA 409W.

**HSA 411. Professional Practice Experience. (1 Credit)**

I, II. Prerequisite: department approval. Internship assignment to a health care organization for observation and practice of supervisory functions.

**HSA 412. Professional Practice Experience II. (1-6 Credits)**

(1) I, II. Prerequisite: department approval. Internship assignment within the field of health information management for observation and practice of data management functions.

**HSA 413. Professional Practice Experience III. (3 Credits)**

I, II. Prerequisite: department approval. Internship assignment to health care organizations for observation and practice of management functions.

**HSA 415. Professional Certification. (1 Credit)**

(1) I, II. Corequisite: HSA 413. Preparation for the Registered Health Information Administrator (RHIA) certification exam. Course focuses on the content domains included on the exam and development of general test-taking skills.

**HSA 450. Hlthcare Info Systems Dev. (2 Credits)**

Prerequisite: Departmental Approval. The use of systems analysis and development procedures to select and implement appropriate health information management systems in healthcare organizations.

**HSA 498. Independent Study. (1-6 Credits)**

A. Prerequisite: student must have the independent study proposal approved by faculty supervisor and department chair prior to enrollment. Directed study or research on an issue or area of interest to the field of health services administration. May be retaken to a maximum of six hours.

## HSA Acad Orient - Health Sci (HSA)

**HSA 100. Student Success Seminar. (1 Credit)**

A. Orientation to the academic life and career preparation with emphasis on University regulations, catalog details, registration, career opportunities, and program requirements. Open to all students during their first two semesters of enrollment at EKU; beyond that open to students with fewer than 30 semester hours earned.

## HUM Humanities (HUM)

**HUM 124. Humanities and the Search for Meaning. (3 Credits)**

(3) I, II. An introduction to the comparative and interdisciplinary study of culture, including Western and non-Western literature, visual art, music, and design, emphasizing integrative thinking as a means toward affirming values for living meaningfully in today's world. Gen. Ed. Element 3A, 3B.

**HUM 226. The Search for Meaning: The Ancient World. (3 Credits)**

I, II. Comparative and interdisciplinary approaches to the study of culture in the ancient world, including Western and non-Western literature, drama, visual art, architecture, and religion/philosophy in historical context; emphasis on integrative thinking and exploration of living meaningfully from the ancient perspective. Gen. Ed. Element 3A, 3B.

**HUM 228. The Search for Meaning: The Modern World. (3 Credits)**

I, II. An introduction to the comparative and interdisciplinary study of culture in the modern world, including Western and non-Western literature, visual art, music, film, and religion/philosophy; emphasis on integrative thinking and exploration of values for living meaningfully in the modern world. Gen. Ed. Element 3A. 3B.

**HUM 300. Humanity in the Postmodern Age. (3 Credits)**

(3) A. Prerequisites: ENG 102, 105(B), or HON 102. COmparative and interdisciplinary approaches to the study of culture since 1945, including study of Western and non-Western works of literature, visual art, music, film, and religion/philosophy; focus on integrative thinking as a means toward affirming values for living meaningfully in the contemporary world. Credit will not be awarded for both HUM 300 and 300W. Gen. Ed. E 3A, 3B.

**HUM 300W. Humanity in the Postmodern Age. (3 Credits)**

A. Prerequisites: ENG 102, 105 (B) or HON 102. Comparative and interdisciplinary approaches to the study of culture since 1945, including study of Western and non-Western works of literature, visual art, music, film, and religion/philosophy; focus on integrative thinking as a means toward affirming values for living meaningfully in the contemporary world.. Credit will not be awarded for both HUM 300W and HUM 300. Gen. Ed. Element 3A, 3B.

**HUM 302. Comparative Humanities. (3 Credits)**

A. Critical analysis of visual culture, literature, architecture, and thought from prehistory, archaic and classical cultures: Egypt, Greece, Rome reflecting the achievements and values of the ancient Mediterranean civilizations.

**HUM 320. Classical Humanities. (3 Credits)**

A. Prerequisite: Sophomore standing or higher. Critical analysis of visual culture, literature, architecture, and thought from prehistory, archaic and classical cultures: Egypt, Greece, and Rome reflecting the achievements and values of the ancient Mediterranean civilizations.

**HUM 330. Medieval Humanities. (3 Credits)**

A. Critical analysis of art, music, and literature from the Judaic, Christian and Islamic traditions emphasizing the confluence of these traditions in the European Middle Ages.

**HUM 340. Renaissance and Enlightenment. (3 Credits)**

A. Critical analysis of art, music, and literature from the Renaissance, Baroque, and the Enlightenment reflecting the religious and secular energies of Western culture and the colonial world.

**HUM 350. Modern Humanities. (3 Credits)**

A. Science, globalization, and cultural diversity in the Modern World; critical analysis of art, music, and literature reflecting the modernization of culture and the human condition since the Enlightenment.

**HUM 360. Topics in Non-Western Traditions: \_\_\_\_\_. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105(B), or HON 102. Studies in the literature, visual and dramatic arts, music, and design of non-Western cultures. This course may focus on a single non-Western tradition or on a few inter-related non-Western traditions in a given semester. May be repeated up to a maximum of 6 hours, given that topics are different. Gen. Ed. E-6.

**HUM 395. Independent Work in Humanities. (1-3 Credits)**

A. Prerequisite: HUM 226 or 228. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours if topic is different.

**HUM 490. Topics in Humanities: \_\_\_\_\_. (3 Credits)**

A. Prerequisite: Junior standing or higher. Selected topics in Interdisciplinary Humanities. May be repeated with permission of department for up to six hours.

**HUM 499. Humanities Thesis. (3 Credits)**

A. An in-depth thesis project, approved by the department chair, directed by a Humanities faculty member, and presented in the form of a research paper with appropriate visual or audio materials.

## Human Services (HSR)

**HSR 300. Introduction to Counseling and Human Services. (3 Credits)**

A. This introductory course will cover the functions, history, ethical standards, theories, basic listening skills, and cultural competencies required for professionals in the field of Human Services.

**HSR 305. Introduction to Career Decision-Making. (3 Credits)**

A. Topics will include use of career information, elements of self awareness, career exploration, decision making, and skill identification, developing personal career interest, values clarification, skill reviews; and job search skills.

**HSR 400. Introduction to Human Development. (3 Credits)**

A. This course focuses on human development throughout the lifespan, from birth to death. Students will examine central concepts related to human development as well as continuity and change within the developin individual.

**HSR 405. Appalachian Issues in a Multicultural Society. (3 Credits)**

A. This course addresses issues relevant for those who will work in human services and require knowledge of issues relevant to Appalachian recipients of service.

**HSR 410. Contemporary Issues in Counseling and Human Services. (3 Credits)**

A. An overview of Counseling and Human Services. Focus is on ethics, practice, current research and topical events related to the Counseling and Human Services professions.

**HSR 415. Human Services Administration. (3 Credits)**

A. Includes skills and knowledge involved in effective development and administration of small human services programs and agencies: organizing, setting goals, and estimating needs, recruiting, selecting, orienting, supervising, and evaluating employees; securing and managing financial resources.

## INF Informatics (INF)

**INF 101. Introduction to Online Learning. (1 Credit)**

(1) A. Formerly CSC 101. Prepare students to take online courses at EKU including the use of the Blackboard learning environment. Help students acquire basic skills to be successful in online learning. Credit will not be awarded to students who have credit for CSC 101.

**INF 104. Computer Literacy with Software Applications. (3 Credits)**

(3) A. Formerly: CSC 104. A non-technical survey of computer history, hardware, and software. Implications of the use and misuse of computers. The effect of computers on society. Software applications such as word processors, spread sheets, databases, and graphics. Credit will not be awarded to students who have credit for CSC 104. 3 Lec (1 lab when taught in large lecture sections).

**INF 105. Software Application Topics. (1-3 Credits)**

(1-3) A. Formerly CSC 105. Selected topics in software applications. Topics vary with offering. May be retaken with advisor approval to a maximum of nine hours provided topics are different.

**INF 110. Introduction to the Internet. (1 Credit)**

(1) I, II. Formerly CSC 110. Introduction to the internet and the Internet processing tools. The course emphasizes the use of the World Wide Web as an information broadcasting and retrieval tool. Credit will not be awarded to students who have credit for CSC 110.

**INF 120. Introduction to Multimedia. (3 Credits)**

(3) I, II. Formerly CSC 120. Introduction to multimedia technology and computerized visual communication. Topics include video editing, media file processing, video streaming, computer graphics. Credit will not be awarded to students who have credit for CSC 120.

**INF 123. Exploring Virtual Worlds. (3 Credits)**

(3) A. Formerly: CSC 123. Exploration of the technologies used in virtual environments and their effects on society. Review of technology driving virtual environments with historical context. Emerging technology. Social/economical consequences. Possible Future outcomes through new technologies and science fiction. Credit will not be awarded to students who have credit for CSC 123.

**INF 130. 3D Printing. (3 Credits)**

A. Exploration of the technologies used in the 3D printing process. Development of skills needed to generate content for 3D printing. Software-driven solutions to 3D printing issues. Emerging technology, Social/Economic consequences. Credit will not be awarded to students who have credit for Special Topics course: 3D printing.

**INF 301. Current Topics in Informatics:\_\_\_\_. (3 Credits)**

(3) A. Formerly CSC 301. Prerequisite: A grade of "C" or higher in INF 104, CIS 212, or or equivalent. Introduction to contemporary topics in informatics. May be retaken to a maximum of six hours provided the topics are different.

**INF 307. Cyberspace Security and Ethics. (3 Credits)**

(3) A. Formerly CSC 307. Prerequisite: A grade of "C" or higher in ENG 102, ENG 105 (B), or HON 102. A non-technical survey of computing, including computers' effect on society, computer crime, viruses and other threats, and self-protection in an online environment. Credit will not be awarded to students who have credit for CSC 307.

**INF 314. MS Office & Data Analysis. (3 Credits)**

(3) A. Formerly CSC 314. Prerequisite: "C" or higher in INF 104, CIS 212 or equivalent. Designing advanced Excel spreadsheets and Access databases to manage data problems with an emphasis on data calculations, data analysis, and organization of data.

**INF 318. Mobile Device Security & Privacy. (3 Credits)**

(3) A. Formerly CSC 318. Prerequisite: A grade of "C" or higher in ENG 102, 105(B), or HON 102. Introductory course on mobile device security and privacy. Topics include mobile devices including smart phones, tablets and others; mobile device threats; mobile device security including planning and implementation; mobile device privacy. Credit will not be awarded to students who have credit for CSC 318.

**INF 321. Computer Forensics. (3 Credits)**

(A). Formerly CSC 321. Prerequisite: A grade of "C" or higher in ENG 102, 105(B) or HON 102. Introductory course on computer forensics. Topics include computer forensics concept, digital evidence, law and regulations, computer forensics lab, computer forensic investigation, digital forensics report, court testimony, ethics and codes to expert witness. Credit will not be awarded to students who have credit for CSC 321.

**INF 322. Computer Forensics II. (3 Credits)**

(A). Formerly CSC 322. Prerequisite: CSC 321 with a minimum grade of C, or INF 321 with a minimum grade of C. Introductory course on computer forensics. Topics include digital evidence, digital forensics investigation procedure, evidence identification, data acquisition, crime scene processing, digital forensic tools, quality assurance, evidence processing, investigation report, and court testimony. Credit will not be awarded to students who have credit for CSC 322.

**INF 330. 2D Animation. (3 Credits)**

A. Prerequisite: A grade of "C" or higher in ART 100, BEM 240, INF 120, CSC 140, or TEC 190. Introduction to 2D animation for use in animation and games. Graphical tablets will be used to learn various digital drawing techniques and key-framing, onion-skinning, rigging will be used for animation generation leading to sprite-sheet assets. Credit will not be awarded to students who have credit for Special Topics course: 2D Animation.

**INF 391. Game Level Design for \_\_\_\_\_. (3 Credits)**

(3) A. Prerequisite: a grade of "C" or higher in INF 130 or INF 330 or ART 100 or MUS 290. Introduction to game asset creation, texture painting, 3D modeling, 2D assets, visual programming, and level design. May be retaken to a maximum of 12 hours provided the covered game genres are different.

**INF 430. Digital Sculpting. (3 Credits)**

A. Prerequisite: A grade of "C" or higher in ART 100, INF 130, INF 330, CSC 315. Navigate and utilize 3D sculpting tools. Create animation ready meshes and game ready models and textures. Learn appropriate terminology and vocabulary in the discussion of 3D assets. Credit will not be awarded to students who have credit for Special Topics course: Digital Sculpting.

**INF 495. Independent Work. (1-3 Credits)**

Prerequisite: A grade of "C" or higher in ENG 102, 105 (B), or HON 102, and departmental approval. Directed study/research on a problem or area chosen in consultation with the instructor. Final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of 12 hours.

**INF 507. Special Topics in Informatics:\_\_\_\_. (1-3 Credits)**

(1-3) A. Prerequisite: Departmental approval. topics vary with offering. May be retaken to a maximum of six hours with advisor approval, provided the topics are different.

**INF 511. Principles of Game Design and Game Theory. (3 Credits)**

A. Fundamentals of designing both digital and non-digital games. In-depth study of the nature of "Fun," design philosophies, choice, motivation, flow theory, types of decisions, and reward in gameplay systems. Additional topics related to gamification, monetization, and serious games also covered.

**INF 512. Game Production and Publication. (3 Credits)**

A. Review of historical and current aspects of the games industry from AAA to indie. Industry operations, Employment, Founding your own studio, Funding, Freelancing, the Role of Influencers (Twitch, Youtube, social media), Platforms, IP protection.

**INF 513. Online Game and Application Design. (3 Credits)**

A. Introduction to the principles of design for online games applications. Topics include game balance, competition, cooperation, detecting exploits and cheating, security, privacy, social structures, administration, community management, online harassment, and client-server communication. Credit will not be awarded for both INF 513 and INF 713 .

**INF 515. Special Topics in Gaming:\_\_\_\_. (3 Credits)**

(3) A. Topics vary with offering. May be retaken to a maximum of six hours with advisor approval, provided the topics are different. Credit will not be awarded to students who have credit for INF 507: Special Topics in Informatics. Credit will not be awarded for both INF 515 and INF 715.

**INF 518. Principles of Cybersecurity. (3 Credits)**

A. Pre-requisite: A minimum grade of "C" in CSC 210 or CSC 310. This course discusses cybersecurity principles. Topics include security governance, risk assessment, security, people, information, and physical asset management; system development, access, and management; threat and incident management; business continuity; security monitoring and improvement.

**INF 707. Special Topics in Informatics\_. (1-3 Credits)**

(1-3) A. Prerequisite: departmental approval. Topics vary with offering. May be retaken to a maximum of six hours with advisor approval, provided the topics are different.

**INF 711. Princ of Game Des and Gam Theo. (3 Credits)**

A. Fundamentals of designing both digital and non-digital games. In depth study of the nature of "Fun," design philosophies, choice, motivation, flow theory, types of decisions, and reward in gameplay systems. Additional topics related to gamification, monetization, and serious games also covered.

**INF 712. Game Production and Publicatio. (3 Credits)**

A. Review of historical and current aspects of the games industry from AAA to indie. Industry operations, Employment, Founding your own studio, Funding, Freelancing, the Role of Influencers (Twitch, Youtube, social media), Platforms, IP protection.

**INF 713. Online Game and App Design. (3 Credits)**

Introduction to the principles of design for online games and applications. Topics include game balance, competition, cooperation, detecting exploits and cheating, security, privacy, social structures, administration, community management, online harassment, and client-server communication. Credit will not be awarded for both INF 713 and INF 513 .

**INF 715. Special Topics in Gaming:\_\_\_\_. (3 Credits)**

A. Topics vary with offering. May be retaken to a maximum of six hours with advisor approval, provided the topics are different. Credit will not be awarded to students who have credit for INF 707: Special Topics in Informatics. Credit will not be awarded for both INF 715 and INF 515.

**INF 718. Principles of Cybersecurity. (3 Credits)**

A. Pre-requisite: departmental approval. This course discusses cybersecurity principles. Topics include security governance, risk assessment, security, people, information, and physical asset management; system development, access, and management; threat and incident management; business continuity; security monitoring and improvement.

## INS Insurance (INS)

**INS 349A. Coop Study in Insurance. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours.

**INS 349B. Coop Study in Insurance. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours.

**INS 349C. Coop Study in Insurance. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours.

**INS 349D. Coop Study in Insurance. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours.

**INS 349G. Coop Study in Insurance. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours.

**INS 876. Employee Benefit Planning. (3 Credits)**

Analysis of employer-sponsored group life insurance, group health insurance, and retirement plans for employees, including plan design, taxation, financing alternatives, integration with public programs, and contemporary problems and issues.

## Instructional Design Learning (IDL)

**IDL 800. Intro to Instructional Design. (3 Credits)**

(3) I, II. A comprehensive introduction to the process, theories and profession of Instructional Design.

**IDL 801. Instructional Design Mastery. (3 Credits)**

(3) I, II. Prerequisite: IDL 800. Application of design theory, implementation of instructional lessons, selection of suitable instructional technology, evaluation of learners and instructional products, and instruction implementation.

**IDL 802. Data-Driven Decision Making. (3 Credits)**

(3) I, II. Data collection and analysis techniques involved in making sound instructional/training and development decisions in organizations.

**IDL 810. Multimedia for Learning. (3 Credits)**

(3) A. Exploration, design, and creation of multimedia products that support sound instructional practices.

**IDL 811. Online Learning Design. (3 Credits)**

(3) A. Exploration of the modern principles and practices that drive effective online learning, analysis of structure and interaction of online courses to create meaningful online experiences.

**IDL 812. Game Design for Learning. (3 Credits)**

(3) I, II. Application of game design in creating instructional materials, development of various gaming concepts, and experiences in gamified learning.

**IDL 813. Instruction for Diverse Learners. (3 Credits)**

(3) A. Exploration of design learning experiences while considering diverse audiences and environments, learner characteristics, training theories, and deployment of tested instructional strategies to improve learning outcomes.

**IDL 814. Training the Modern Workforce. (3 Credits)**

(3) I, II. Prerequisite: IDL 802. Examining professional development components of workforce training, training programs, and responding to the changing organizational needs.

**IDL 820. Field Internship. (3 Credits)**

(3) A. Prerequisites: Completion of 2 out of 10 program courses (6 credits) and departmental approval. Guided internship designed to afford opportunities for the IDLT students to practice learned lessons in highly successful environments and collaborate with peers and mentors who have practical experience to share.

**IDL 821. Portfolio and Exit Review. (3 Credits)**

(3) A. Prerequisites: Completion of nine program-required courses (27 credits) and departmental approval. Culmination of studies and experiences in IDLT. Creation of a professional web portfolio that showcases student's most significant work and internship experiences.

**IDL 890. Independent Study. (3 Credits)**

(3) A. Prerequisite: Approved Independent Study Proposal Form and Departmental Approval. Faculty Guided Independent research, which allows students to design a research problem and make experimental observations and conclusions. Students will perform in-depth research pertinent to IDLT and craft a project based on their investigation.

## International Exchange Study (IES)

**IES 300. International Exchange. (1-12 Credits)**

A. Prerequisites: sophomore standing, and approval from the Education Abroad Director. This course is used as a placeholder until a transfer transcript from the international institution or school of record is received, at which time this course is replaced with the transfer course.

**IES 333. Study Abroad:\_\_\_\_\_. (1-12 Credits)**

I, II. Prerequisites: sophomore standing, and approval from the International Director as an appointed exchange student. This course may be repeated for each semester spent studying abroad and is a Satisfactory/Unsatisfactory course. For students who engage in a full Fall/Spring semester foreign exchange experience, grading is only CR credit.

## ITP Interpreter Training (ITP)

**ITP 215. Prof. Issues in Interpreting. (3 Credits)**

A. Prerequisites: ASL 201 and ITP 115 or ASL 225 with a minimum grade of C or departmental permission. Relevant professional terminology, procedures and ethical considerations explored. Topics include historical developments and current trends in professional organizations, ethical standards, and settings. Credit will not be awarded for both ITP 215 and ITP 215W.

**ITP 215W. Professional Issues in Interpreting. (3 Credits)**

II. Prerequisites: Grade of "C" or higher in ENG 101 or 101R and 102; or HON 105 or ENG 105 with a grade of "B" or higher. ASL 201 and ASL 225 with minimum grades of "C" or departmental approval. Terminology, procedures, and ethical professional considerations relevant to interpreting and transliterating. Topics include the Code of Professional Conduct application, structuring the interpreting environment, communication assessment, human relations skills, historical developments, and current trends. explored. Credit will not be awarded for both ITP 215 and ITP 215W.

**ITP 220. Processing Skills for Interpreters. (3 Credits)**

II. Prerequisite: ASL 201 with a minimum grade of C or departmental permission. Practice of cognitive skills used in the process of interpreting. Skills include visualization, prediction, listening, memory, abstracting, closure, dual tasking, and processing time.

**ITP 310. Professional Decision Making. (3 Credits)**

I. Prerequisite: Admission to the interpreting program or departmental permission. This course provides students with the theoretical foundation for professional and ethical decision making. It explores multiple perspectives on the role and function of interpreter. Clinical hours required.

**ITP 320. English-to-ASL Interpreting I. (3 Credits)**

A. Prerequisites: admission to the interpreting program, ASL 202, ITP 215 or 215W, and 220 with a minimum grades of "C" or departmental permission. Development of English-to-ASL interpreting skills using consecutive and simultaneous modes with a variety of source materials. Clinical hours required.

**ITP 325. ASL-to-English Interpreting I. (3 Credits)**

I. Prerequisites: admission to the interpreter training program, ASL 202, ITP 215, or 215W, and ITP 220 with a minimum grade of "C" or departmental permission. Development of interpreting skills progressing from written translation to consecutive interpreting/ transliterating in a variety of settings. Clinical hours required.

**ITP 330. Ethics and Special Settings I. (3 Credits)**

(3) II. Prerequisite: ASL 202 (C) and Admission to the ASL and English Interpreting program or departmental approval. Critical analysis of interpreting in various settings. Development of communication and ethical decision-making skills. Clinical hours required.

**ITP 340. Interactive Interpreting I. (3 Credits)**

II. Prerequisites: ASL 301, ITP 220, and 325 with a grade of "C" or higher and admission to the interpreting program or departmental approval. Exploration of meaning creation in interaction both theoretically and practically through observation and engagement in monolingual and bilingual interactions. Consideration of the impact of the presence of an interpreter on the creation of meaning in interactions.

**ITP 380. Special Topics in Interpreting:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. For independent work, special workshops, or special topics related to the field of interpreting beyond the scope of regularly offered courses. May be taken to a maximum of 9 hours provided subtitle/topics vary.

**ITP 385. Independent Work Interpretation. (1-3 Credits)**

A. Prerequisite: Departmental approval. For independent work related to the field of interpretation beyond the scope of regularly offered courses. May be taken to a maximum of 6 hours provided subtitle/topics vary. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**ITP 390. Linguistics and ASL I. (3 Credits)**

II. Prerequisites: admission in the Interpreter Training program, ASL 301 with a minimum grade of C or departmental permission. Overview of linguistics; phonology, morphology and language change in a variety of languages and American Sign Language. Analysis of ASL and spoken languages. Clinical hours required.

**ITP 420. English-to-ASL Interpreting II. (3 Credits)**

I. Prerequisites: admission in the interpreter training program, ASL 302, ITP 320, 325 with a minimum grade of "C" or departmental permission. Continued development of English-to-ASL interpreting skills with added focus on registers, settings, and audience preferences. Clinical hours required.

**ITP 425. ASL-to- English interpreting II. (3 Credits)**

I, II. Prerequisites: ITP 325 with a minimum grade of C and admission to the ASL and English Interpretation program or departmental approval. Continued development of ASL-to-English interpreting skills in a variety of settings. Clinical hours required.

**ITP 430. Ethics & Special Settings II. (3 Credits)**

I. Prerequisites: ASL 302, ITP 320 and 325 with minimum of "C" and admission to the interpreting program or departmental permission. Continued critical analysis of interpreting in various multicultural and specialized settings. Continued development of ethical and culturally competent decision-making skills. Clinical hours required.

**ITP 440. Interactive Interpreting II. (3 Credits)**

I. Prerequisites: Admission to the interpreting program, ASL 302, ITP 340, 325 with a grade of "C" or higher, and admission to the interpreting program, or departmental approval. Students will integrate, broaden, and apply skills and knowledge developed in interpreting courses by experiential practice in interactive interpreting. Students will develop skills in interpreting conversations, discussions, explanations, interviews, and other types of dialogue genres.

**ITP 470. Practicum in Interpreting I. (3 Credits)**

I. Prerequisites: ASL 302, ITP 325, 340, 425 with a grade of "C" or better and admission to the interpreting program or departmental approval. Observation and interpreting experience under the supervision of a mentor(s) in a variety of settings. Clinical hours required.

**ITP 490. Linguistics and ASL II. (3 Credits)**

Prerequisites: admission in the Interpreter Training program, ITP 390 with a minimum grade of C or departmental permission. Overview of syntax, discourse, and sociolinguistics. Analysis of American Sign Language and spoken languages. Clinical hours required.

**ITP 495. Practicum in Interpreting II. (12 Credits)**

I, II. Prerequisites: admission in the Interpreter Training program, ITP faculty approval, completion of all other ASL/ITP classes with minimum grades of C. A structured full time practicum interpreting experience under the direct supervision of a mentor(s) in an educational, public or private setting. Students will interpret, participate in professional growth activities, keep professional journals and adhere to all guidelines and requirements in the ITP 495 student practicum handbook. Potential practicum sites may be local, state wide, regional or national.

## JOU Journalism (JOU)

**JOU 302. Journalism Practicum. (1-3 Credits)**

I, II. Supervised practical experience in a journalistic operation. Journalism students must complete a total of three credit hours over one or multiple semesters.

**JOU 305. Feature Writing. (3 Credits)**

I, II. Prerequisites: COM 201 or JOU 201 or permission of instructor. Writing and submitting articles for publication in newspapers and magazines. Involves studying requirements of periodicals to which sale is attempted and free-lancing methods in general.

**JOU 305W. Feature Writing. (3 Credits)**

I, II. Prerequisites: ENG 101 and 102 (or ENG 105 with a B) and COM 201 or permission of instructor. Writing and submitting articles for publication in newspapers and magazines. Involves studying requirements of periodicals to which sale is attempted and freelancing methods in general. Credit will not be awarded for both JOU 305W and JOU 305.

**JOU 307. Editorial & Opinion Writing. (3 Credits)**

A. Prerequisite: COM 201. Study of editorials, editorial columns, commentary pieces, reviews and criticism. Examines editorial boards, generating ideas for columns, and writing book, theater and film criticism. Provides practice in writing opinion pieces for publication.

**JOU 310. News Editing. (3 Credits)**

I, II. Prerequisite: COM 201. Understanding the editing process in newspapers and magazines. Examines content and style editing, headline writing and publication design. Explores new technology as an editing tool. Provides both theory and practice in editing.

**JOU 320. Design: Newspapers & Magazines. (3 Credits)**

I, II. Formerly COM 320 A-H. Introductory desktop publishing and image-processing for non-designers. Examines principles and techniques central to publishing newspapers, magazines, brochures, and newsletters within a journalism context. Credit not awarded to students who have received credit for PUB 320.

**JOU 325. Photojournalism. (3 Credits)**

I, II. Examines principles of digital photography, stressing hands-on skills in producing professional quality images. Looks at role the photojournalist serves in newspaper and magazine production. Provides an introduction to color correction in Photoshop.

**JOU 349. Co-op or Appl Lrn: Journalism. (0.5-8 Credits)**

A. Prerequisites: junior standing, a 2.0 GPA within the journalism major, and departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours of academic credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each hour of academic credit. One credit hour required for major. No additional hours may satisfy major or minor requirements within the department.

**JOU 349A. Coop Study: Journalism. (0.5-8 Credits)**

A. Prerequisites: junior standing, C average in all courses within the department, and departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours of academic credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each hour of academic credit. May not satisfy major or minor requirements within the department.

**JOU 349B. Coop Study: Journalism. (0.5-8 Credits)****JOU 349C. Coop Study: Journalism. (0.5-8 Credits)****JOU 349D. Coop Study: Journalism. (0.5-8 Credits)****JOU 349E. Co-op or Appl Lrn: Journalism. (0.5-8 Credits)****JOU 400. Studies in Journalism:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Study of specific areas of Journalism through a course examining timely or topical concerns in the field. Specific topic included in schedule. May be retaken to maximum of nine hours.

**JOU 401. Public Affairs Reporting. (3 Credits)**

Prerequisite: COM 201. Writing and reporting about national, state, and local government and specialized fields of labor, science, research and business. Includes writing and reporting for wire services and daily newspapers.

**JOU 410. Advanced Photojournalism. (3 Credits)**

A. Prerequisite: JOU 325. Study of newspaper and magazine photojournalism with emphasis on the photographic essay, the role of the photojournalist and the photo editor, and digital technologies. Provides experience in black and white and color photography.

**JOU 412. Multimedia Web Development. (3 Credits)**

I, II. Prerequisite: PUB 320 or JOU 320 with a grade of C or higher. An introduction to web site design, with emphasis on communication and design theory. Delves into fundamentals of HTML and CSS. Course also uses software for optimizing images and graphics for web use. Credit will not be awarded for both JOU 412 and PUB 412.

**JOU 415. Advanced Editing. (3 Credits)**

A. Prerequisite: JOU 310. Intensive study of newspaper design. Emphasizes practice in electronic editing, headline writing, and layout.

**JOU 425. Community Journalism. (3 Credits)**

A. Prerequisites: COM 201 and COM 301 or permission by instructor. Intensive study of community newspapers and their relationship to their communities, including methods of assessment.

**JOU 450. Media Management. (3 Credits)**

A. Prerequisites: COM 201 and JOU 310. Problems of organization, finance, production, and distribution of media. Examines factors involved in publishing, staffing, and policy formulation.

**JOU 480. Freelance Writing. (3 Credits)**

A. Prerequisites: ENG (101 and 102) or 105 or HON 102. How to write and sell freelance articles for online media or other publication outlets. Credit will not be awarded to students who have credit for ENG 500/700 taught as "Writing for the Popular Media".

**JOU 491. Senior Seminar in Journalism. (1 Credit)**

I, II. Prerequisites: JOU 302 or 349. Evaluates student's progress toward a career in mass media, especially the development of a portfolio, and develops job-search strategies and skills. Includes assessment of instruction and curriculum.

**JOU 499. Independent Study in Journalism. (1-3 Credits)**

A. Prerequisite: Student must consult with the faculty supervisor and have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of three hours.

## JPL Justice, Policy, & Leaders (JPL)

**JPL 808. Analysis of Cor and Juv Just data. (3 Credits)**

A. Formerly COR 808. Prerequisites: undergraduate research methods and undergraduate statistics or departmental approval. This course examines techniques for analyzing data in corrections and juvenile justice. Emphasis is placed on analysis and interpretation of data using univariate, bivariate, and multivariate techniques.

**JPL 839A. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**JPL 839B. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**JPL 839C. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**JPL 839D. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**JPL 839E. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

**JPL 839F. Co-op: Justice Policy and Lead. (3 Credits)**

A. Formerly COR 839. Prerequisite: departmental approval and graduate GPA of at least 3.0. Students work in an agency in corrections, juvenile justice, policing, or related area. Accompanying classroom and coursework components are designed to promote integration of work and academic experiences. A minimum of 80 hours work is required for each hour of academic credit. Credit will not be awarded to students who have credit for COR 839.

## JPN Japanese (JPN)

**JPN 101. Conversational Japanese I. (3 Credits)**

I, II. An introduction to the grammar and structure of Japanese taught in cultural context. Practice in pronunciation, reading, and writing systems with an emphasis on conversation. Gen. Ed. VIII.

**JPN 102. Conversational Japanese II. (3 Credits)**

A. Recommended: JPN 101 or equivalent proficiency. Continuation of JPN 101. Emphasis on conversation. Students entering JPN 102 by referral or placement will receive three hours credit for JPN 101 if they make an  $\zeta A\zeta$  in 102. Laboratory work required. Gen. Ed. VIII.

**JPN 201. Intermediate Japanese I. (3 Credits)**

A. Recommended: JPN 102 or equivalent proficiency. Continuation of JPN 102. Practice in writing kanji, reading, and speaking on cultural topics for diverse social settings requiring increasingly complex structural patterns. Students entering JPN 201 by referral or placement receive six hours credit for JPN 101 and 102 if they make an  $\zeta A\zeta$  or  $\zeta B\zeta$  in 201. Gen. Ed. VIII.

**JPN 202. Intermediate Japanese II. (3 Credits)**

A. Recommended: JPN 201 or equivalent proficiency. Continuation of JPN 201 to strengthen student's ability to interact in more diverse social settings requiring increasingly complex structural patterns. Students entering JPN 202 by referral or placement receive nine hours credit for JPN 101, 102, and 201 if they make an  $\zeta A\zeta$  or  $\zeta B\zeta$  in 202. Gen. Ed. VIII.

**JPN 295. Independent Work in Japanese. (1-3 Credits)**

A. Prerequisite: departmental approval. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**JPN 495. Independent Work in Japanese. (1-3 Credits)**

A. Prerequisite: departmental approval. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## JSO Acad Orient - Just & Safe (JSO)

**JSO 100. Student Success Seminar. (1 Credit)**

I. An orientation to university academic life and career planning and preparation. Topics include University policies and procedures, program requirements, career opportunities and introductory study skills. Open to all students during their first two semesters of enrollment at EKU; beyond that open to students with fewer than 30 semester hours earned.

## LAS Paralegal (LAS)

**LAS 210. Introduction to Law. (3 Credits)**

I, II. General study of the purpose, function, and history of law; law-related occupations; court systems; case law analysis; professional ethics; the adversary system; and the major areas of law.

**LAS 220. Legal Research and Writing I. (3 Credits)**

I, II. Prerequisite: LAS 210 or director approval. The sources and techniques of legal research; their application to specific legal problems and the use of legal authority to construct a written legal argument.

**LAS 300W. Legal Research and Writing I. (3 Credits)**

A. Prerequisite: LAS 220. The sources and techniques of advanced legal research and writing, the use of computer-assisted legal research methods and their application. Credit will not be awarded for both LAS 300 and LAS 300W.

**LAS 305. Special Topics in the Law. (1-3 Credits)**

A. Prerequisite: director approval. A course offered periodically covering topics and issues of current or special interest concerning the law. May be retaken to a maximum of six hours provided topics vary.

**LAS 306. Animals & the Law. (3 Credits)**

A. The study of topics that relate to the status of animals under the law. The course focuses upon cases, legislation, and cultural values toward animals world-wide. Does not count toward paralegal requirements.

**LAS 325. Real Estate Practice. (3 Credits)**

I, II. Prerequisite: LAS 220. Paralegal practice and procedure for general law office; real estate transactions and documents, title searches, title insurance, loan closings, leases, wills, affidavits of descent, and foreclosures.

**LAS 330. Family Law Practice. (3 Credits)**

A. Prerequisite: LAS 220. Paralegal practice in family law including forms, documents, and procedures for: marriage, divorce, separation, annulment, alimony, legitimacy of children, custody, adoption, community property, and juvenile law. Credit will not be awarded for both LAS 330 and LAS 330S.

**LAS 340. Criminal Law Practice and Procedure. (3 Credits)**

A. Prerequisite: LAS 220 or director approval. An introduction to criminal law and procedure; criminal law forms and documents, and preparation for criminal litigation using the systems approach.

**LAS 350. Litigation: Complaint to Discovery. (3 Credits)**

A. Prerequisites: LAS 220 or director approval. Study of legal principles and paralegal practice in substantive civil law. Incorporates procedural aspects of the early stages of civil litigation including evidence and investigation, pleadings, and the discovery/disclosure process.

**LAS 355. Litigation: Complaint to Discovery. (3 Credits)**

I, II. Prerequisite: LAS 220 or Director Approval. Study of legal principles and paralegal practice in substantive civil law. Incorporates procedural aspects of the latter stages of civil litigation including settlement and ADR, trial preparation, trial, post-trial practice, and appeal.

**LAS 360. Wills, Trusts, Estates, & Elder Law. (3 Credits)**

I, II. Prerequisite: LAS 220 or director approval. Paralegal probate practice including initial steps, asset accumulation, debt management, court procedure, estate-related tax issues and forms. A systems approach will be emphasized.

**LAS 370. Corporations and Business Organization Practice. (3 Credits)**

A. Prerequisite: LAS 220. Documents, forms, and procedures essential to the corporate paralegal. Development of skills concerning business formations, incorporation, corporate finance, employees, corporate operation, securities, regulatory compliance, merger, acquisitions, sales and terminations.

**LAS 380. Administrative Agency Practice. (3 Credits)**

A. Prerequisite: LAS 220. Practical paralegal skill development in administrative law and procedure. Forms, documents, pleadings, and techniques for administrative regulatory compliance; case processing; informal and formal administrative advocacy, emphasizing the systems approach.

**LAS 385. Legal Administration and Computer Applications. (3 Credits)**

I, II. Prerequisites: LAS 220. The study of law office administration and the utilization of specific law office computer applications.

**LAS 399. Paralegal Internship. (4 Credits)**

I, II. Prerequisites: completion of 18 hours of major (LAS) courses including LAS 300 or director approval (prior written application is required).

**LAS 410. Paralegal Seminar. (3 Credits)**

A. Prerequisite: completion of 18 hours of major (LAS) courses or director approval. Professional ethics, analysis of the internship experience, transition to the law office and current issues facing the paralegal profession.

**LAS 460. Estate Planning & Procedure. (3 Credits)**

A. Prerequisite: LAS 360 or director approval. The study of law, forms, documents, and procedures essential to the paralegal involved in the drafting of wills, trusts, and estate plans. The systems approach will be emphasized.

**LAS 490. Independent Study of the Law. (1-3 Credits)**

A. Prerequisite: director approval. Individual research, skill development, and study in an area of law or paralegal practice. Student must have independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. May be retaken to a maximum of six hours.

## LAT Latin (LAT)

**LAT 101. Beginning Latin I. (3 Credits)**

A. Study of basic inflections, syntax, pronunciation, and vocabulary necessary for the reading and progressive understanding of the Latin language. Particular attention is given to cultural topics and to the relationship of Latin to English. Gen. Ed. VIII.

**LAT 102. Beginning Latin II. (3 Credits)**

A. Recommended: one unit of high school Latin or LAT 101. A continuation of the study of the elements of Latin grammar with additional work in translation of selections from Latin writers of appropriate complexity. Some composition on cultural topics included. Students entering LAT 102 by referral or placement receive three hours credit for LAT 101 if they make an  $\geq$  A $\geq$  in 102. Gen. Ed. VIII.

## LGS Legal Studies (LGS)

**LGS 300. Introduction to Legal Studies. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105, or HON 102. Examination of foundations and liberal arts perspectives of legal studies. Topics include comparative and historical introduction to forms, institutions, processes, and systems of law along with research methods for understanding questions of law and justice.

**LGS 305. Special Topics:\_\_\_\_\_. (3 Credits)**

A. Prerequisite: LGS 300. Exploration of topics not covered in the existing LGS curriculum. May be taken for a maximum of six hours provided that subject matter is different each time.

**LGS 306. Animals and the Law. (3 Credits)**

A. Formerly LAS 306. The study of topics that relate to the status of animals under the law. The course focuses upon cases, legislation, and cultural values toward animals world-wide. Credit will not be awarded to students who have credit for LAS 306.

**LGS 349. Applied Learning for Legal Studies. (0.5-8 Credits)**

A. Prerequisites: LGS 300. Work or volunteer in an area related to Legal Studies. A minimum of 80 hours employment required for each semester hour credit. No more than 3 hours may count toward LGS program.

**LGS 400. Legal Studies Senior Seminar. (3 Credits)**

A. Prerequisite: LGS 300 and at least six hours of LGS electives. Conduct research in an area related to Legal Studies, write a research paper, and present an oral presentation on research conducted. No more than 3 hours may count toward LGS program.

## LIB Library Science (LIB)

**LIB 301. Children's Literature and Related Materials. (3 Credits)**

I, II. Prerequisites: ENG 101 or ENG 101R with a minimum grade of "C", or HON 102 with a minimum grade of "C", or ENG 105 with a minimum grade of "B". Survey course designed to acquaint P-5 teachers with print and non-print media for the school curriculum and with techniques to encourage lifelong readers.

**LIB 301S. Children's Literature and Related Materials. (3 Credits)**

I, II. Prerequisites: ENG 101 or 101R with a minimum grade of "C", or HON 102 with a minimum grade of "C", or ENG 105 with a minimum grade of "B"; and EDF 203 or EDF 310 with a grade of C or higher. Survey course designed to acquaint P-5 teachers with print and non-print media for the school curriculum and with techniques to encourage lifelong readers. Credit will not be awarded to students who have credit for LIB 301. Students in LIB 301S will be required to complete 15 hours of community service by choosing to read to students in Madison County, County Hospital, or the public library. Or students may choose to assist in a reading day at a local school.

**LIB 401. Adolescent Literature and Resources. (3 Credits)**

A. Formerly: LIB 501. A course designed with inquiry-based methodologies to future teachers' knowledge of adolescences, adolescent literature, and resources. Topics include genres, censorship, diverse authors, assessment, and multiple literacies to increase motivation, understanding and appreciation of adolescent literature. Credit will not be awarded for both LIB401 and 501.

**LIB 800. Org & Admin/School Media Ctr. (3 Credits)**

A. A course designed to instruct students in the philosophy, objectives, and administration of the media center in elementary and secondary schools. 10 clinical hours required.

**LIB 801. Educational Technologies. (3 Credits)**

I, II. A course designed for teacher leaders to research current issues, integrate educational technology and provide leadership in technology planning, applications, and assessments for P-12 educational settings. Credit will not be awarded to students who have credit for LIB 769. 10 clinical hours required.

**LIB 802. Lit & Resources for Yng Adults. (3 Credits)**

A. Prerequisite: A course designed for teachers and librarians working with adolescents and young adults. Literature and resources appropriate for school curricula and encouraging reading among adolescents and young adults 10 years and older will be explored. 10 clinical hours required.

**LIB 805. Children's Lit & Resources. (3 Credits)**

(3) A. Characteristics of good reading for children; types and evaluation of literature; use of materials for curricular and leisure needs; correlation of book and non-book materials. For librarians and teachers. 10 clinical hours required.

**LIB 807. Library Science:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: advisor/departmental chair approval. Independent work, workshops, special topics, or seminars. May be retaken under different subtitles.

**LIB 821. Info Literacy Resources & Ser. (3 Credits)**

A. Introduction to information literacy skills and services in school libraries. Emphasis on information search process methodologies and information search applications, including: cataloging, reference interview process, print and electronic resource evaluation, collection development and search techniques. 10 clinical hours required.

**LIB 831. Organization and Access. (3 Credits)**

A. Study of the principles and practices of describing, representing, organizing, accessing, and retrieving information. Examines the operations, process, tools, and methods in some major information systems.

**LIB 841. Info Sys Dsgn/Dev for Schl Lib. (3 Credits)**

A. Prerequisite: LIB 801. This course builds the skills needed to structure, store, process, access, and present information in a Web environment for P-12 school settings. It will typically cover the design of Web sites, Web coding using HTML, and Web authoring tools.

**LIB 870. P-12 School Media Lib Pract. (1-3 Credits)**

A. Prerequisite: Permission of faculty required prior to enrolling in practicum. Field-based experience (elementary, middle grade, secondary) under a certified school media librarian. Minimum 100 hours required.

## LPS Loss Prevention & Safety (LPS)

**LPS 822. Workers Compensation Labor Law. (3 Credits)**

Comprehensive study of workers compensation and regulations; National Labor Relations Act; Title VII: A.D.E.A.; and other relevant laws applicable to the functional areas of loss prevention.

**LPS 839. Co-op or Appl Lrn: Loss Prev/S. (1-3 Credits)**

Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be taken for a maximum of three hours. A minimum of eighty hours is required for each hour of academic credit. Approved for IP grade.

**LPS 839A. Cooperative Study. (1-3 Credits)**

Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be taken for a maximum of three hours. A minimum of eighty hours is required for each hour of academic credit. Approval for IP grade.

**LPS 839B. Cooperative Study. (1-3 Credits)****LPS 839C. Cooperative Study. (1-3 Credits)****LPS 839D. Cooperative Study. (1-3 Credits)**

Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be taken for a maximum of three hours. A minimum of eighty hours is required for each hour of academic credit. Approved for IP grade.

**LPS 839E. Co-op or Appl Ln: Loss Prev/S. (1-3 Credits)**

Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be taken for a maximum of three hours. A minimum of eighty hours is required for each hour of academic credit. Approved for IP grade.

**LPS 839F. Cooperative Study. (1-3 Credits)**

Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be taken for a maximum of three hours. A minimum of eighty hours is required for each hour of academic credit. Approved for IP grade.

## MAE Math Education (MAE)

**MAE 201. Mathematical Concepts for P-9 I. (3 Credits)**

I, II. Prerequisites: MAT 112 or higher with a grade of "C" or higher. Concepts beyond algorithmic computation are emphasized. Topics include problem solving, whole numbers, integers, mental math, numeration, and elementary number theory.

**MAE 202. Mathematical Concepts for P-9 II. (3 Credits)**

I, II. Prerequisites: MAT 112 or higher and MAE 201 with a grade of "C" or higher. Concepts beyond algorithmic computation are emphasized. Topics include rational numbers (fractions, decimals, and percent) real numbers, probability, and statistics.

**MAE 302. Mathematical Concepts for P-9 III. (3 Credits)**

I, II. Cross-listed as EME 301. Prerequisites: Admission to professional education; MAT 112 or higher and MAE 201, each with a grade of "C" or better. Pre- or Co-requisite: MAE 202 with a grade of "C" or better. Concepts beyond algorithmic computation are emphasized. Topics include algebraic thinking, basic algebra topics (i.e. variables, expression, equations, graphs and linear problems solving) and geometry. Credit will not be awarded to students who have credit for EME 301.

**MAE 303. Math Models and Applications. (3 Credits)**

II. Prerequisites: A grade of C or higher in MAT 112 or 112B, 114, 211, or 234. Prerequisite or Corequisite: MAT 203 with a grade of C or better. The course emphasizes conceptual understanding and communication of mathematical topics through modeling, problem solving, and technology. Topics include algebra, geometry, and real-world situations. Credit cannot be awarded for both MAT 303 and MAE 303.

**MAE 305. Problem Solving and Technology. (3 Credits)**

II. Prerequisite: MAE 202 and EDF 204 with a grade of C or better. Prerequisite or corequisite: MAE 302 or EME 301. The course will enable students to use technology effectively in the mathematics classroom and explore topics to deepen mathematical understanding.

**MAE 475. Math Teaching Senior Seminar. (3 Credits)**

I. Formerly MAT 475. Prerequisites: admission to teacher education program and a minimum 2.75 GPA in major and supporting course requirements for MAT teaching major. Emphasis on the interrelationship between mathematical topics. Problem solving with technology. Oral presentation on a topic selected jointly with the instructor. Credit will not be awarded for both MAE 475 and MAT 475.

**MAE 480. Seminar in:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: will vary with topic offered. Advanced topics in mathematics education. May be retaken to a maximum of nine hours, provided the topics are different.

**MAE 501. Applications of Mathematics for P-9 Teachers. (3 Credits)**

A. Prerequisite: MAT 303. Topics in the application of mathematical models appropriate for teachers of grades P-9. Credit does not apply toward B.S. or degree requirements for programs offered within this department.

**MAE 502. Geometry with Technology for P-9 Teachers. (3 Credits)**

A. Prerequisites: MAT 203 and MAE 305. Topics in geometry appropriate for teachers of grades P-9. Credit does not apply toward either B.S. degree requirements for programs offered within this department.

**MAE 504. Technology for Teaching & Research. (3 Credits)**

(3) A. Prerequisite: Senior standing. Technology for mathematical and statistical teaching and research. Exploration of mathematical and statistical concepts through the use of computer algebra systems, statistical software, geometry software, programming languages, and related technologies.

**MAE 507. Seminar in Mathematics Education:\_\_\_\_. (1-3 Credits)**

(1-3) Prerequisite will vary with the topic differed. Topics vary with offering. May be retaken to a maximum of nine hours, with advisor approval, provided the topics are different. Credit towards degree requirements will depend on the course content.

**MAE 550. Teaching Mathematics in the Secondary School. (3 Credits)**

I. Cross-listed as ESE 550. Prerequisites: EDF 413 (C) EMS 490 (C), CED 400 (B), admission to professional education. Pre/Corequisite: MAE 475. Corequisite: CED 450. Developmentally appropriate materials and methods for teaching mathematics and computer science in secondary schools. Credit will not be awarded for both MAE 550 and ESE 550.

**MAE 701. Applicat of Math for P-9. (3 Credits)**

A. Topics in the application of mathematical models appropriate for teachers of grades P-9.

**MAE 702. Geo with Tech for P-9 Teachers. (3 Credits)**

A. Topics in geometry appropriate for teachers of grades P-9.

**MAE 704. Tech for Teaching & Research. (3 Credits)**

(3) A. Technology for mathematical and statistical teaching and research. Exploration of mathematical and statistical concepts through the use of computer algebra systems, statistical software, geometry software, programming languages, and related technologies.

**MAE 707. Seminar in Math Edu: \_\_\_\_\_. (1-3 Credits)**

(1-3) A. Topics vary with offering. May be retaken to a maximum number of nine hours, with advisor approval, provided the topics are different. Credit towards degree requirements will depend on the course content.

**MAE 750. Teach Math in Sec School. (3 Credits)**

I. Cross-listed as ESE 750. Developmentally appropriate materials and methods for teaching mathematics and computer science in secondary schools. Minimum of 96 field/clinical hours. Credit will not be awarded to students who have credit for ESE 750.

**MAE 843. Mathematics Intervention Strat. (3 Credits)**

A. Cross-listed as EME 843. In-depth analysis of teaching resources, teaching strategies, and appropriate mathematics curriculum content for intervention. Credit will not be awarded to students who have credit for EME 843.

**MAE 850. Trends in Teaching Sec Math. (3 Credits)**

A. Cross-listed as ESE 850. Examination of curricular trends, modern programs, appropriate strategies, and innovative materials in secondary mathematics. Credit will not be awarded to students who have credit for ESE 850.

**MAE 870. HLM in Educational Research. (3 Credits)**

Hierarchical data structures, fixed effects, random effects, hierarchical linear models, null model, partition of variance, intraclass correlation, random intercept models, random coefficient models, growth models, repeated measures, educational research, and use of statistical software. It is strongly recommended that students have completed a course in applied statistics.

**MAE 872. Mathematics in the Curriculum. (3 Credits)**

A. Exploration of trends, concepts, and issues involved in modern mathematics programs. Research findings are examined and multisensory materials are presented.

**MAE 880. Seminar in: \_\_\_\_\_. (1-3 Credits)**

Advanced topics in mathematics education. Topics vary with offering. Credit towards degree requirements will depend on the course content. May be retaken to a maximum of nine hours, provided the topic is different.

**MAE 890. Independent Study in: \_\_\_\_\_. (1-3 Credits)**

Prerequisites: An 800-Level course and departmental approval. Student must have the independent study proposal approved by faculty supervisor, department graduate committee, and department chair prior to enrollment. Independent study on a topic chosen by the student and instructor. May be retaken to a maximum of six hours, provided the topics are different.

## MAT Mathematics (MAT)

**MAT 105. Mathematics with Applications. (3 Credits)**

I, II. Prerequisite: Satisfaction of English and reading academic readiness indicators and either satisfaction of mathematics academic readiness indicators\* or concurrent enrollment in MAT 105P. This course is designed to strengthen computational skills, mathematical reasoning, problems-solving skills, and mathematical reading/ communication skills while focusing on real-world problems. The mathematical topics may include the mathematics of finance, statistics, geometry, combinatorics, mathematical modeling, and algorithms. Use of calculators. Gen. Ed. E-2 [QR].

**MAT 105P. Quantitative Support for MAT 105. (1 Credit)**

(1) I, II. Corequisite: MAT 105. Corequisite support for students in MAT 105. Emphasis placed on prerequisite skills such as real number sense and operations, problem solving, analyzing graphs, mathematical modeling, and critical thinking. 2 Lab.

**MAT 106. Applied Mathematics: \_\_\_\_\_. (3 Credits)**

I, II. Prerequisite: Satisfaction of English and reading academic readiness indicators\* and either satisfaction of mathematics academic readiness indicators or concurrent enrollment in MAT 106P. The introduction to the application of mathematics to real-world problems. Topics are from various branches of mathematics such as graph theory, game theory, probability, geometry, and problems from the social sciences. 3 Lec. Gen. Ed. E-2 [QR].

**MAT 106P. Quantitative Support for MAT 106. (1 Credit)**

I, II. Corequisite: MAT 106. Corequisite support for students in MAT 106. Emphasis placed on prerequisite skills such as real number sense and operations, problem solving, analyzing graphs, mathematical modeling, and critical thinking. 2 Lab.

**MAT 110. Intro to Algebraic Functions. (3 Credits)**

I, II. Prerequisite: Completion of all University developmental requirements. Algebraic modeling with linear, quadratic, polynomial, rational, exponential and logarithmic functions, equations, and inequalities. 3 Lec/1 Lab. Gen Ed. E-2 [QR].

**MAT 111A. Quantitative Support: MAT 112A. (0.5 Credits)**

I, II. Formerly MAT 112AP. Corequisite: MAT 112A. Corequisite support for students in MAT 112A. Emphasis placed on prerequisite skills such as real number sense and operations, problem solving, analyzing graphs, factoring, exponents, mathematical modeling, and critical reading and thinking. Credit will not be awarded to students who have credit for MAT 112AP. 2 Lab.

**MAT 111B. Quantitative Support: MAT 112B. (0.5 Credits)**

I, II. Formerly MAT 112BP. Corequisite: MAT 112B. Corequisite support for students in MAT 112B. Emphasis on prerequisite skills including real number sense and operations, problem solving, graphs, factoring, exponents, logarithms, matrices, sequences, mathematical modeling, and critical reading and thinking. Credit will not be awarded to students who have credit for MAT 112BP. 2 Lab.

**MAT 112. Algebra with Applications. (3 Credits)**

(3) I, II. Prerequisite: MAT 098 or MAT 110 with a minimum grade of "C", a minimum score of 22 on the mathematics portion of the ACT, a minimum score of 510 on the mathematics portion of the SAT, or a passing score on an algebra placement test. Students will solve application problems involving linear and quadratic equations, matrices, systems of linear equations, series and sequences, logarithmic and exponential equations; and analyze graphs of linear, quadratic, exponential, logarithmic and power functions. 3 Lec/1 Lab. Gen. Ed. E-2.

**MAT 112A. Algebra: Polynomials. (1.5 Credits)**

I, II. Prerequisite/ Corequisite: Satisfaction of English and reading academic readiness indicators and either satisfaction of algebra readiness indicators\* or concurrent enrollment in MAT 111A. Students will solve application problems involving linear, quadratic, and power equations and analyze graphs of linear, quadratic, and power functions. Credit will not be awarded to students who have credit for MAT 112. 3 Lec /1 Lab. Gen. Ed. E-2 [QR]. General Education credit will not be awarded until after successful completion of both MAT 112A and MAT 112B.

**MAT 112AP. Quantitative Support for MAT 112A. (0.5 Credits)**

(.5) I, II. Corequisite: MAT 112A. Corequisite support for students in MAT 112A. Emphasis placed on prerequisite skills such as real number sense and operations, problem solving, analyzing graphs, factoring, exponents, mathematical modeling, and critical reading and thinking. 2 Lab.

**MAT 112B. Algebra: Functions & Matrices. (1.5 Credits)**

I, II. Prerequisite/Corequisite: MAT 112A (C) and either satisfaction of algebra readiness indicators\* or concurrent enrollment in MAT 111B. Students will solve application problems involving matrices, systems of linear equations, series and sequences, logarithmic and exponential equations; and analyze graphs of exponential and logarithmic functions. Credit will not be awarded to students who have credit for MAT 112. 3 Lec /1 Lab. Gen. Ed. E-2 [QR]. General Education credit will not be awarded until after successful completion of both MAT 112A and MAT 112B.

**MAT 112BP. Quantitative Support for MAT 112B. (0.5 Credits)**

(.5) I, II. Corequisite: MAT 112B. Corequisite support for students in MAT 112B. Emphasis on prerequisite skills including real number sense and operations, problem solving, graphs, factoring, exponents, logarithms, matrices, sequences, mathematical modeling, and critical reading and thinking. 2 Lab.

**MAT 114. College Algebra. (3 Credits)**

(3) I, II. Formerly MAT 107. Prerequisite: MAT 098 or MAT 110 with a minimum grade of "C", a minimum score of 22 on the mathematics portion of the ACT, a minimum score of 530 on the mathematics portion of the SAT, or a passing score on an algebra placement test. Real and complex numbers, integer and rational exponents, polynomial and rational equations and inequalities, graphs of functions and relations, exponential and logarithmic functions. Use of graphing calculators. Credit will not be awarded to students who have credit for MAT 107. 3 Lec/1 Lab. Gen Ed. E-2.

**MAT 115. Introduction to Mathematica. (1 Credit)**

I, II. Prerequisite: MAT 112 or 114 with a minimum grade of "C", or a minimum score of 23 on the mathematics portion of the ACT or a minimum score of 550 on the mathematics portion of the SAT. Use of Mathematica. Numeric, algebraic, and symbolic capabilities, two and three dimensional graphics with animation, decisions, looping, and list manipulation.

**MAT 116. Problem Solving with Math. (2 Credits)**

A. Prerequisite: MAT 115. Basic concepts include functional programming, procedural programming, rule-based programming, recursion, numerics, and graphics programming.

**MAT 120. Trigonometry. (3 Credits)**

I, II. Prerequisite: Prerequisite: MAT 112 or 112B or 114 with a grade of "C" or better, or a Math ACT score of 22 or higher, or a Math SAT score of 560 or higher. Radians and degrees, graphs of trigonometric functions, inverse functions, right and oblique triangles, vectors, and real-world applications. Gen. Ed. E-2 [QR].

**MAT 122. Precalculus Mathematics. (5 Credits)**

(5) I, II. Formerly MAT 109. Prerequisite: MAT 112 or 114 with a grade of "C" or better, a minimum score of 23 on the mathematics portion of the ACT, or a minimum score of 550 on the mathematics portion of the SAT. Polynomial, rational, exponential, logarithmic, and trigonometric functions and inverses. Sequences and series, systems of linear and nonlinear equations and inequalities, the complex number system, vectors, the binomial theorem, mathematical induction, and conic sections. Use of graphing calculators. Credit will not be awarded to those students who have credit for MAT 109. Gen. Ed. E2.

**MAT 201. Mathematical Concepts for Middle and Elementary School Teachers I. (3 Credits)**

I, II. Prerequisites: MAT 112 or higher with a grade of "C" or better, and a passing score on a Mastery Exam. (The prerequisite course requirement can be met by a combination of MAT 106 and a 23 or higher on the mathematics portion of the ACT.) Concepts beyond algorithmic computation are emphasized. Sets and functions, whole numbers, integers, rational numbers, decimals and real numbers, numeration, and elementary number theory.

**MAT 202. Mathematical Concepts for Middle and Elementary School Teachers II. (3 Credits)**

I, II. Prerequisites: MAT 201 and another MAT course numbered 112 or higher with a C or better in each and a passing score on a mastery test. (The MAT requirement of a MAT course numbered 112 or higher can be met by a combination of MAT 106 and a 23 or higher on the mathematics portion of the ACT.) Concepts stressed over manipulation. Geometry, measurement, metric system, probability and basic statistics.

**MAT 203. Geometry for 7-12 Teachers. (3 Credits)**

II. Prerequisites: admission to a teacher certification program; and either MAT 244 with a grade of C or better or a combination of four courses: MAE 201; MAE 202; MAE 302 or EME 301; and one of MAT 112, MAT 114, MAT 211, or MAT 234 or 234 H, with a grade of C or better in each course and a combined grade point of 2.75 in the four courses. Angles and their measurement, right triangle trigonometry, perpendicular lines, congruent triangles, circles, arcs, and angles, constructions and loci, area and volume, similarity, graphing, selected topics from analytic geometry.

**MAT 211. Applied Calculus. (3 Credits)**

A. Prerequisite: MAT 112 or 112B or 114 or 120 or 122 with a grade of "C" or better, or a minimum score of 23 on the mathematics portion of the ACT or a minimum score of 550 on the mathematics portion of the SAT. Functions and graphs, differentiation, integration, exponential and logarithmic functions, and applications for business, economics, and science. Credit will not be awarded to students who have credit for MAT 261. Gen. Ed. Element 2.

**MAT 211L. Applied Calculus Lab. (1-2 Credits)**

I, II. Formerly MAT 217. Prerequisite or Corequisite: MAT 211. This optional lab is to accompany a regular lecture class in Applied Calculus. 2-4 Lab. Credit will not be awarded to students who have credit for MAT 217.

**MAT 234. Calculus I. (4 Credits)**

Formerly MAT 124. Prerequisite: MAT 122 with a grade of "C" or better, a minimum score of 27 on the mathematics portion of the ACT, or a minimum score of 640 on the mathematics portion of the SAT or a passing score on a calculus placement test. Functions, limits, and continuity, derivatives and applications, integration, and introduction to and use of the computer package Mathematica or other appropriate technology. Credit will not be awarded to students who have credit for MAT 124. Gen. Ed. E-2.

**MAT 234L. Calculus I Lab. (1-2 Credits)**

I, II. Formerly MAT 217. Prerequisite or Corequisite: MAT 234. This optional lab is to accompany a regular lecture class in Calculus I. 2-4 Lab. Credit will not be awarded to students who have credit for MAT 217.

**MAT 239. Linear Algebra and Matrices. (3 Credits)**

(3) I, II. Formerly MAT 214. Prerequisite: MAT 234 or 234H with a grade of "C" or better. Real and complex vector spaces, linear transformations, matrix theory, with applications, through the introduction of eigenvalues and eigenvectors, determinants, inner product spaces, the use of technology. Credit will not be awarded to students who have credit for MAT 214.

**MAT 244. Calculus II. (4 Credits)**

I, II. Formerly MAT 224. Prerequisite: MAT 234, or 234H with minimum grade of "C" or better. Fundamental integration techniques, numerical integration, applications of integration, improper integrals, differential equations, infinite series, polar and parametric equations, and use of Mathematica or other appropriate technology. Credit will not be awarded to students who have credit for MAT 224, 224H, or 244N.

**MAT 244L. Calculus II Lab. (1-2 Credits)**

I, II. Formerly MAT 218. Prerequisite or Corequisite: MAT 244. This optional lab is to accompany a regular lecture class in Calculus II. 2-4 Lab. Credit will not be awarded to students who have credit for MAT 218.

**MAT 254. Calculus III. (4 Credits)**

I, II. Formerly: MAT 225. Prerequisite: MAT 244 with a minimum grade of "C" or better. Functions of several variables, limits and continuity, partial derivatives, multiple integrals, vector calculus including Green's, Divergence, and Stoke's theorems, cylindrical and spherical coordinates and use of Mathematica. Credit will not be awarded to students who have credit for MAT 225, 225H.

**MAT 254L. Calculus III Lab. (1-2 Credits)**

I, II. Formerly MAT 219. Prerequisite or Corequisite: MAT 254. This optional lab is to accompany a regular lecture class in Calculus III. 2-4 Lab. Credit will not be awarded to students who have credit for MAT 219.

**MAT 301. Logic and Set Theory. (3 Credits)**

A. Prerequisites: MAT 214, 224 or 224H with minimum grades of  $\geq C$  and a grade point average of at least 2.5 in MAT 124, 214, and 224, or departmental approval. Logic, proof techniques, set theory, relations, functions, cardinality, introduction to advanced mathematics.

**MAT 303. Mathematical Models and Applications. (3 Credits)**

II. Prerequisite: A grade of C or higher in MAT 112, 114, 211, 234, or 234H. Prerequisites or Corequisites: MAT 203 with a grade of C or better. The course emphasizes conceptual understanding and communication of mathematical topics through modeling, problem solving, and technology. Topics include algebra, geometry, probability, statistics, and real-world situations. Credit does not count toward the B.S. in mathematics nor the B.S. in mathematics teaching nor the mathematics minor.

**MAT 306. Discrete Mathematics. (3 Credits)**

II. Prerequisites: MAT 239 and 244 each with a minimum grade of "C" and at least 2.5 GPA in all mathematics courses. Counting principles, permutations, combinations, recurrence relations, graphs, representations of graphs as matrices, trees, networks, difference equations, and linear programming.

**MAT 308. Modern Algebra I. (3 Credits)**

I. Prerequisite: MAT 301 with a minimum grade of "C" (2.0). Groups, cyclic and permutation groups, homomorphisms, subgroups and factor groups, Fundamental Theorem of Finite Abelian Groups, rings, fields, integral domains, and ideals.

**MAT 315. Introduction to Analysis. (3 Credits)**

II. Prerequisite: MAT 301, 225 or MAT 225H with a minimum grade of "C". Real number system, sets and functions, limits, continuity, uniform continuity, Taylor's theorem, laws of the mean, the Riemann integral, allied topics.

**MAT 334. Modern College Geometry I. (3 Credits)**

A. Prerequisite or Corequisite: MAT 301 with a minimum grade of  $\geq C$ . Euclid's parallel postulate, axiom systems, finite geometries.

**MAT 349. Applied Learning in Mathematics. (0.5-8 Credits)**

I, II; (1-6) SUMMER ONLY. Prerequisite: departmental approval. Work in placements related to academic studies. Credit does not apply to major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment are required for each semester hour of academic credit.

**MAT 349A. Cooperative Study: Mathematics. (0.5-8 Credits)**

(1-8) I, II; (1-6) SUMMER ONLY. Prerequisite: departmental approval. Work in placements related to academic studies. Credit does not apply to major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment are required for each semester hour of academic credit.

**MAT 349B. Cooperative Study: Mathematics. (0.5-8 Credits)**

Work in placements related to academic studies. Credit does not apply to major or minor requirements.

**MAT 349C. Cooperative Study: Mathematics. (0.5-8 Credits)**

Work in placements related to academic studies. Credit does not apply to major or minor requirements.

**MAT 349D. Cooperative Study: Mathematics. (0.5-8 Credits)**

Work in placements related to academic studies. Credit does not apply to major or minor requirements.

**MAT 349E. Cooperative Study: Mathematics. (0.5-8 Credits)**

Work in placements related to academic studies. Credit does not apply to major or minor requirements.

**MAT 353. Differential Equations. (3 Credits)**

A. Prerequisite: MAT 224 or 224H with a minimum grade of  $\geq C$ . Differential equations of first order, applications, singular solutions, linear equations with constant coefficients, miscellaneous methods for equations of higher order, solution in series, total differential equations, qualitative methods, systems of linear differential equations, the computer algebra systems.

**MAT 380. Mathematics in a Historical. (3 Credits)**

A. Prerequisite or Corequisite: MAT 301 or departmental approval. The history of mathematics from ancient beginnings until modern times is studied through problems and through the lives and times of mathematicians.

**MAT 408. Modern Algebra II. (3 Credits)**

A. Prerequisite: MAT 308 with a minimum grade of  $\zeta$ C.  $\zeta$  Ring homomorphisms, polynomial rings, unique factorization domains, principal ideal domains, finite fields, field extensions, algebraic extensions, Galois theory, and geometric construction.

**MAT 415. Analysis. (3 Credits)**

A. Prerequisite: MAT 315 with a minimum grade of  $\zeta$ C.  $\zeta$  The Riemann integral, the Lebesgue integral, metric spaces, differentiation, sequences and series of functions, allied topics.

**MAT 480. Seminar in:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Advanced topics in undergraduate mathematics. May be retaken to a maximum of nine hours, provided the topics are different.

**MAT 495. Independent Work. (1-3 Credits)**

A. Prerequisite: departmental approval. Directed study/ research on a problem or area chosen in consultation with instructor. Final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to maximum of six hours.

**MAT 498. Mathematics Capstone. (1 Credit)**

A. Prerequisite: senior status as a Mathematics major. Designed to enable students to synthesize and integrate their mathematical and statistical knowledge. Students will learn how to conduct research and present the results.

**MAT 501. Applicat of Math for P-9 Teach. (3 Credits)**

A. Prerequisite: MAT 303. Topics in the application of mathematical models appropriate for teachers of grades P-9. Credit does not apply toward B.S. or degree requirements for programs offered within this department.

**MAT 502. Geom with Tech for P-9 Teah. (3 Credits)**

A. Prerequisites: MAT 203 and MAE 305. Topics in geometry appropriate for teachers of grades P-9. Credit does not apply toward either B.S. degree requirements for programs offered within this department.

**MAT 505. Foundations of Mathematics. (3 Credits)**

A. Prerequisite: MAT 308 with a minimum grade of  $\zeta$ C.  $\zeta$  The nature of mathematical thought; logical systems; axiomatic concepts and methods; consideration of the work of Hilbert, Peano, Whitehead, Russell, and others.

**MAT 506. Number Theory. (3 Credits)**

Fundamental properties of integers, linear Diophantine equations, linear and quadratic congruences, famous problems of number theory.

**MAT 507. Seminar in Mathematics:\_\_\_\_. (1-3 Credits)**

Topics vary with offering. May be retaken with advisor approval, provided the topics are different. Credit towards degree requirements will depend on course content.

**MAT 520. Mathematical Statistics I. (3 Credits)**

I. Cross listed as STA 520. Prerequisite: STA 215 or 270. Prerequisite or Corequisite: MAT 254 or 254H. Descriptive statistics, discrete and continuous probability distributions for one and two variables, functions of random variables, sampling distributions, expectations and generating functions. Credit will not be awarded to students who have credit for STA 520.

**MAT 525. Vector Analysis with Applications. (3 Credits)**

A. Prerequisite: MAT 225 or 225H with a minimum grade of  $\zeta$ C.  $\zeta$  Algebra and geometry of vectors; vector functions of a single variable; line, surface, and volume integrals; Divergence Theorem, Stokes's Theorem, Green's Theorem; generalized orthogonal coordinates; Fourier Series; solutions to boundary value problems.

**MAT 527. Cryptology. (3 Credits)**

(3) A. Prerequisites: Senior standing and MAT 301. Classical cryptosystems, basic number theory, DES, Advanced Encryption Standard, RSA, discrete logs, digital signatures, elliptic curve cryptosystem, lattice methods. It is strongly recommended that students have completed a course in proof writing.

**MAT 535. Principles of Geometry. (3 Credits)**

A. Prerequisite: MAT 334 with a minimum grade of "C." Two- and three-dimensional analytical Euclidean geometry, alternate geometries such as hyperbolic, Riemannian, taxicab and affine.

**MAT 540. Applications of Partial Differential Equations. (3 Credits)**

A. Prerequisite: MAT 353 with a minimum grade of "C". Wave, heat/diffusion and potential/Laplace equations, separation of variables, orthogonal sets of functions. Fourier series, boundary value problems, Fourier integrals, maximum principles, the Cauchy problem.

**MAT 550. Applications of Complex Analysis. (3 Credits)**

A. Prerequisite: MAT 225 or 225H or 353 with a minimum grade of  $\zeta$ C.  $\zeta$  Continuity, differentiation, integration, series, residues, and applications to the evaluation of real integrals. Applications of conformal mappings to boundary value problems in heat, electrostatic potential, and fluid flow. Emphasis throughout on computational techniques and applications.

**MAT 555. Graph Theory. (3 Credits)**

A. Prerequisite: MAT 308 or CSC 320 with a minimum grade of  $\zeta$ C.  $\zeta$  Introduction to the theory and applications of graph theory. Topics will include trees, planarity, connectivity, flows, matching, and coloring.

**MAT 560. Point Set Topology. (3 Credits)**

An introduction to topology with emphasis on Euclidean and other metric spaces. Mappings, connectivity, compactness, formation of new spaces, relationship to analysis.

**MAT 565. Mathematics of Structural Bioinformatics. (3 Credits)**

(3) A. Prerequisite: Senior standing, MAT 239, 254 and three hours from CSC 160, 174, 177, or 190. Mathematical and computational approaches to analyze and understand macromolecular structure data. Methods for protein structure determination, refinement, evaluation, comparison, and visualization. Protein surface representation and shape comparison. Structure databases.

**MAT 577. Introduction to Algebraic Coding Theory. (3 Credits)**

(3) A. Prerequisites: Senior standing; MAT 301, or both MAT 214 and departmental approval. Introduction to basic concepts of coding theory, linear codes, perfect codes, cyclic codes, BCH codes, and Reed Solomon codes. Additional topics as time permits. It is strongly recommended that students have completed a course in linear algebra and a course in proof writing.

**MAT 701. Applicat of Math for P-9. (3 Credits)**

A. Topics in the application of mathematical models appropriate for teachers of grades P-9.

**MAT 702. Geo with Tech for P-9 Teachers. (3 Credits)**

A. Topics in geometry appropriate for teachers of grades P-9.

**MAT 705. Foundations of Math. (3 Credits)**

A. The nature of mathematical thought; logical systems, axiomatic concepts and methods; consideration of the work of Hilbert, Peano, Whitehead, Russell, and others. It is strongly recommended that students have completed an abstract algebra course.

**MAT 706. Number Theory. (3 Credits)**

A. Fundamental properties of integers, linear Diophantine equations, linear and quadratic congruences, famous problems of number theory. It is strongly recommended that students have completed a course requiring proof-writing skills.

**MAT 707. Seminar in Mathematics: \_\_\_\_\_. (1-3 Credits)**

A. Topics vary with offering. May be retaken with advisor approval, provided the topics are different. Credit towards degree requirements will depend on the course content.

**MAT 720. Mathematical Statistics I. (3 Credits)**

I. Cross-listed as STA 720. Descriptive statistics, discrete and continuous probability distributions for one and two variables, functions of random variables, sampling distributions, expectations and generating functions. Credit will not be awarded to students who have credit for STA 720. It is strongly recommended that students have completed eight hours of calculus.

**MAT 725. Vector Analysis with Applicati. (3 Credits)**

A. Algebra and geometry of vectors; vector functions of a single variable; line, surface, and volume integrals; divergence Theorem, Stokes's Theorem, Green's Theorem; generalized orthogonal coordinates; Fourier Series; solutions to boundary value problems. It is strongly recommended that students have completed twelve hours of calculus.

**MAT 727. Cryptology. (3 Credits)**

(3) A. Classical cryptosystems, basic number theory, DES, Advanced Encryption Standard, RSA, discrete logs, digital signatures, elliptic curve cryptosystem, lattice methods. It is strongly recommended that students have completed a course in proof writing.

**MAT 735. Principles of Geometry. (3 Credits)**

A. Two- and three-dimensional analytical Euclidean geometry, alternative geometries, hyperbolic, Riemannian, taxicab, and affine. It is strongly recommended that students have completed a geometry course and a linear algebra course.

**MAT 740. Applic of Partial Diff Equatio. (3 Credits)**

A. Wave, heat/diffusion and potential/Laplace equations, separation of variables, orthogonal sets of functions. Fourier series, boundary value problems, Fourier integrals, maximum principles, the Cauchy problem. It is strongly recommended that students have completed a course in differential equations.

**MAT 750. Appl of Complex Analysis. (3 Credits)**

A. Continuity, differentiation, integration, series, residues, and applications to the evaluation of real integrals. Applications of conformal mappings to boundary value problems in heat, electrostatic potential, and fluid flow. Emphasis throughout on computational techniques and applications. Credit will not be awarded to students who have credit for MAT 850. It is strongly recommended that students have completed twelve hours of calculus or eight hours of calculus plus a differential equations course.

**MAT 755. Graph Theory. (3 Credits)**

A. Introduction to the theory and applications of graph theory. Topics will include trees, planarity, connectivity, flows, matching and coloring. It is strongly recommended that students have completed a course in abstract algebra or discrete structures.

**MAT 760. Point Set Topology. (3 Credits)**

A. An introduction to topology with emphasis on Euclidean and other metric spaces. Mappings, connectivity, compactness, formation of new spaces, relationship to analysis. It is strongly recommended that students have completed a course requiring proof-writing skills.

**MAT 765. Math of Structural Bioinformat. (3 Credits)**

(3) A. Mathematical and computational approaches to analyze and understand macromolecular structure data. Methods for protein structure determination, refinement, evaluation, comparison, and visualization. Protein surface representation and shape comparison. Structure databases. It is strongly recommended that students have completed courses in linear algebra and multivariable calculus and have experience in computer programming.

**MAT 777. Intro to Alg Coding Theory. (3 Credits)**

(3) A. Prerequisites: Senior standing; MAT 301, or both MAT 214 and departmental approval. Introduction to basic concepts of coding theory, linear codes, perfect codes, cyclic codes, BCH codes, and Reed Solomon codes. Additional topics as time permits. It is strongly recommended that students have completed a course in linear algebra and a course in proof writing.

**MAT 803. Number/Geometric Con/P-5 Tchrs. (3 Credits)**

A. Prerequisite: admission to the MAT program or departmental approval. Numeric and geometric concepts; problem solving with numbers, geometry, and data; reasoning; and connections. Credit does not apply toward the M.S. degree offered within this department. Credit will not be awarded to students who have credit for MAT 202.

**MAT 806. Advanced Number Theory. (3 Credits)**

A. Basic concepts from analytic and algebraic number theory including the Prime Number Theorem, Dirichlet's Theorem, the Riemann Hypothesis, algebraic integers, ideals and factorization in algebraic number fields. Additional topics as time permits. It is strongly recommended that students have completed courses in number theory, abstract algebra, and real analysis or differential equations.

**MAT 809. Modern Algebra. (3 Credits)**

A. Study of groups, including the fundamental isomorphism theorems. Sylow Theorems, and finitely generated abelian groups. It is strongly recommended that students have completed an abstract algebra course.

**MAT 810. Modern Algebra. (3 Credits)**

A. Study of rings, integral domains, unique factorization domains, modules, vector spaces, fields and field extensions, including Galois theory. It is strongly recommended that students have completed an abstract algebra course.

**MAT 815. Real Analysis. (3 Credits)**

A. Further study of the concepts introduced in MAT 315. The convergence theorems, Lebesgue measure and measurable functions, the Lebesgue integral, Fourier series, allied topics. It is strongly recommended that students have completed a real analysis course.

**MAT 839. Co-op or Appl Lrn: Mathematics. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**MAT 850. Complex Analysis. (3 Credits)**

A. The topology of the extended complex plane. The theory of analytic and meromorphic functions including integration, Taylor and Laurent series, Cauchy Integral and Residue Theorems, Argument Principles, Rouché's Theorem, Maximum Modulus Theorems, conformal mappings. It is strongly recommended that students have completed a real analysis course.

**MAT 853. Ordinary Differential Equation. (3 Credits)**

(3) A. Uniqueness and existence of solutions of initial value problems, maximal intervals of existence, continuous dependence, disconjugacy of boundary value problems, Cauchy functions, Green's functions, and fixed point theory. Additional topics as time permits. It is strongly recommended that students have completed a course in analysis.

**MAT 856. Applied Mathematics. (3 Credits)**

A. Dynamical systems, linear and nonlinear systems theory, transform methods, integral equations, control theory and optimization, calculus of variations, eigenvalue problems, stability theory, bifurcation. It is strongly recommended that students have completed a course in differential equations.

**MAT 865. Applied Linear Algebra. (3 Credits)**

(3) A. Vector spaces, LU decomposition, singular value decomposition, orthogonality, and related theory, with applications to least squares, Markov chains, combinatorics, differential equations, and other topics. It is strongly recommended that students have completed a course in linear algebra.

**MAT 866. Combinatorial Optimization. (3 Credits)**

(3) A. Combinatorial optimization, linear programming, flow and matching theory, traveling salesman problem, and related topics. It is strongly recommended that students have completed a linear algebra course.

**MAT 871. Numerical Analysis. (3 Credits)**

A. Computer arithmetic. Analysis of errors and stability of well-posed problems. LaGrange, Hermite and spline interpolation. Newton-Cotes, Romberg, and Gaussian quadrature. Consistency, convergence, and stability of numerical integration methods for ordinary initial value problems. Finite difference and shooting methods for two-point boundary value problems. It is strongly recommended that students have completed a real analysis course and have experience with a programming language.

**MAT 880. Seminar in:\_\_\_\_\_ (1-3 Credits)**

A. Advanced topics in Mathematics. May be retaken to a maximum of six hours, provided the topics are different. Credit towards degree requirements will depend on the course content.

**MAT 890. Independent Study in:\_\_\_\_\_. (1-3 Credits)**

A. Prerequisites: An 800-level course and departmental approval. Independent study on a problem chosen by the student and instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of nine hours, provided the topics are different.

**MAT 898. Applied Mathematics Capstone. (3 Credits)**

(3) A. Prerequisite: completion of at least 15 hours toward the M.A. in Applied Mathematics degree. Preparation for mathematical and statistical study. Guided one-on-one study of a mathematical or statistical concept. Use of mathematical typesetting software, presentation software, and research databases.

**MAT 899. Thesis in \_\_\_\_\_ (1-6 Credits)**

A.

## MBA Master of Business Admin (MBA)

**MBA 800. MBA Bootcamp. (0 Credits)**

I. Prerequisite: Admission to MBA Program. Introduction to technical topics as well as team- and culture-building activities.

**MBA 812. Data, Decisions & Business. (2 Credits)**

(2) I. Prerequisite or Co-requisite: MBA 800. This Course provides a foundation on developing, interpreting, and using data for business decisions. Course focuses on building data models, and utilizing them to improve decision making in a business context.

**MBA 813. Empathic Interactive Comm. (2 Credits)**

(2) I. Prerequisite or Co-requisite: MBA 800. Develop interactive communication strategies and methods critical to business leaders through discussion, examples, and practice. Includes oral and written assignments linked to career development, and a variety of interactive communication strategies.

**MBA 814. Big Data Analytics. (2 Credits)**

(2) I. Prerequisite: MBA 812. This Course introduces students to business application of data analytics techniques for increasing sales, identifying new customers, improving efficiencies, and automated decision making.

**MBA 815. Intro to Design Thinking. (1 Credit)**

(1) I. Prerequisite or Co-requisite: MBA 800. This course provides an in-depth orientation to the readings, theories, and examples of design thinking.

**MBA 822. Leading & Managing Human Cap. (2 Credits)**

(2) II. Prerequisite: MBA 812 and 815. Human capital management topics, applications, and development of personal competencies in acquiring and developing talent, recognizing and rewarding contribution, managing performance, measuring human capital outcomes, and making overall human capital strategy decisions.

**MBA 824. Auth Leadership & Des Emp Exp. (2 Credits)**

II. Prerequisite: MBA 813, 815, and 871. Advanced study of individual and team emotion, thought, and action in the workplace with the aim of authentic leadership skillset development and effective employee experience design.

**MBA 825. Design Thinking Applications. (1 Credit)**

(1) I. Prerequisite: MBA 815. This Course provides a unique series of immersive experiences in innovation and design thinking that prepares participants for real world innovation. Students will collaborate on projects with faculty from all disciplines and community leaders. May be repeated; Maximum of three credit hours.

**MBA 831. Corp Entrepren Ventures. (2 Credits)**

(2) I. Prerequisite: MBA 812 and 825. The examination and practice of generating, evaluating, and implementing entrepreneurial ideas within an organization using a design thinking approach, Explores trends in corporate entrepreneurship and the impact of entrepreneurship within an organization.

**MBA 833. Supp Chain as Driver Org Eff. (2 Credits)**

(2) i. Prerequisite: MBA 812 and 825. Enhanced exposure to essential supply chain concepts, encompassing the integration of key business processes from the end user through original suppliers that provides products, services and information that add value for customers and other stakeholders.

**MBA 834. Enterprise Risk Mgmt. (2 Credits)**

(2) I. Prerequisite: MBA 825 and 883. This course examines the way in which business and society assess, control, and transfer risk.

**MBA 841. Driving Strategic Impact. (2 Credits)**

(2) I. Prerequisite: MBA 822, 824, 825, 831, 833, 834, 882 or 832, and 883 or 823. The course integrates knowledge from all business disciplines in relationships of helping organizations sustain competitive advantages.

**MBA 842. Impact Capstone. (3 Credits)**

I. Prerequisites: MBA 822, 824, 825, 831, 833, 834, 871, 881, 882, and 883. Prerequisite or Co-requisite: MBA 841. Synthesis and application of knowledge, skills, and abilities developed throughout the MBA program; students will be embedded with clients in EKU's Service Region to better understand the unique challenges and opportunities for business in Appalachia.

**MBA 860. MBA Seminar. (1-3 Credits)**

A. Selected advanced topics in business administration. May be retaken up to 3 hours provided the topic of study is different.

**MBA 870. Microecon and Stats for Mgrs. (3 Credits)**

Prerequisites: MBA status or instructor permission Practical business applications of microeconomic and statistical theory. Emphasis on decision making under uncertainty. Topics include: descriptive statistics, hypothesis testing, regression, optimization, demand estimation, forecasting, costs and production theory, pricing and output determination, and game theory.

**MBA 871. Managerial Communication. (3 Credits)**

Business research and report writing, communication strategies, and oral presentations for managers.

**MBA 874. Data Analytics for Managers. (3 Credits)**

This course focuses on data analytics from a managerial perspective, including: business analytics, data management and wrangling, data visualization and summary measures, probability and distributions, statistical inference, data mining, data forecasting, and prescriptive analysis.

**MBA 875. Leading Orgs Pple & Fut of Wrk. (3 Credits)**

Fundamentals of organizational behavior and human resources: resource allocation, human enterprise, employee experience, and the future of work. Topics include: strategic decision-making, competition, workforce development, talent utilization, workplace rewards, recognition, demographics, and the gig economy.

**MBA 881. Accounting for Managers. (3 Credits)**

This course focuses on financial and managerial accounting topics and tools relevant to a manager in the context of understanding accounting information and using it effectively to make business decisions.

**MBA 882. Marketing Management. (3 Credits)**

This course is oriented toward: assessing the dynamic business environment, identifying consumers' needs, selecting the appropriate market segment, and developing marketing strategy to satisfy consumers' need and maintain firm sustainable competitive advantages.

**MBA 883. Financial Mgmt & Decision Mkg. (3 Credits)**

Prerequisite or Co-requisite: MBA 881. This course provides managers at any level with analytical tools for financial management decisions, including financial statement interpretation, financial performance evaluation, financial forecasting, growth management, corporate financing, financial markets, business valuation, and capital budgeting.

**MBA 890. Independent Study. (1-3 Credits)**

A. Opportunity for independent study of a problem/issue chosen by the student and instructor. Approved independent study proposal form required. May be retaken up to 6 hours provided topic of study is different.

**MBA 892. Special Topics in MBA: \_\_\_\_\_. (1-3 Credits)**

A. Prerequisites: Departmental approval. For special topics related to the Business beyond the scope of regularly offered courses. May be taken to a maximum of 6 hours provided subtitle/topics vary.

**MBA 895. Integrated Decision Making. (3 Credits)**

Prerequisites: MBA870, MBA871, MBA875, MBA881, MBA882, and MBA883. This course focuses on strategic management skills and competencies. It explores why good strategic management leads to good business performance and concepts, examines tools of strategic analysis, and includes applications of methods of integrated decision-making.

## MFG Manufacturing (MFG)

**MFG 301. Non-metallic Material Process. (3 Credits)**

Introduction to manufacturing processes use to shape or form wood, plastic, and composite materials. Families of processes covered are casting, molding, forming, separating, conditioning, assembling, and finishing.

## MGT Management (MGT)

**MGT 201. Introduction to Golf Management. (3 Credits)**

II. Prerequisite: Admission to PGM program, and successful completion of the PGA Qualifying Exam. A survey course that introduces students to the elements of the industry in which a PGA professional must be competent, golf car fleet management; an introduction to business planning, customer relations, merchandising, and turfgrass management.

**MGT 202. Introduction to Golf Instruction. (3 Credits)**

I. Prerequisite: admission to the PGM program, MGT 201 and PGA tests accompanying MGT 201. Introduction to human learning, the teaching process, and the elements of the game. Topics include laws, principles, and preferences of the golf swing, biomechanics, and teaching technologies. The course also addresses golf club performance variables.

**MGT 203. Golf Operations I. (3 Credits)**

II. Prerequisite: admission to PGM, MGT 201, 202 and PGA tests that accompany each class. The fundamental concepts involved in developing a facility's tournament business including promotion, implementation, and review, will be introduced. Students will also gain an in-depth knowledge of the Rules of Golf.

**MGT 204. Golf Operations II. (3 Credits)**

I. Prerequisite: admission to PGM program, MGT 203, and successful completion of all level 1 PGA requirements. An introduction to golf operations; policies and procedures; effectively managing staff resources; and measuring overall performance. The course will also introduce merchandising and inventory management and customer relations concepts.

**MGT 205. Analysis of the Golf Swing. (3 Credits)**

II. Prerequisite: admission to the PGM program, MGT 201, 202, 203 and PGA tests accompanying each class. A focus on techniques that help the student improve his/her golf skills; describes drills, warm-ups, and shot techniques for intermediate students. The course also discusses golf club repair.

**MGT 206. Golf Operations and Administration. (3 Credits)**

I, II. Prerequisites: Successful completion of all Level 2 tests and work experience portfolio activities, MGT 204, 205, and the PGA tests that accompany each class. A study of golf operations and administration to include a deeper look at business planning; the organizational structure and policies and procedures of a golf operation: merchandise management: and a performance system for supervising employees.

**MGT 207. Advance Golf Instruction & Special Programs. (3 Credits)**

I, II. Prerequisite: admission to the PGM program, MGT 201, 202, 203, 204, 205, 206 and the PGA tests that accompany each class. Emphasizes the integration of learning, teaching, and game elements. Covers elements of the mental game and more advanced shot-making. Club fitting procedures will be covered and the development of instructional programs will be introduced.

**MGT 208. PGM Seminar. (2 Credits)**

(2) I, II. Prerequisites: admission to the PGM program, MGT 201, 202, 203, 204, 205, 206 with a grade of "C" or better in each course, and the PGA tests that accompany each class. A study of issues related to career planning and enhancement including industry job market analysis, networking, and professional development. A capstone project requiring research and critical analysis regarding growth of the game, golf operations, and other industry challenges will be presented. Emphasis on integration of knowledge acquired in previous courses. May be retaken up to six hours.

**MGT 210. Golf Operation III. (3 Credits)**

Prerequisites: Successful completion of all Level 2 tests and work experience portfolio activities; MGT 201, 202, 203, 204, 205, 206. A study of the golf car fleet and food service centers as revenue opportunities for a golf facility. Examine the functional design and environmental considerations of turf grass management. Course will include a career enhancement component.

**MGT 300. Principles of Management. (3 Credits)**

I, II. Prerequisites: School of Business or BBA major; junior standing (a minimum of 60 hours) with an overall minimum 2.0 GPA. Management principles with emphasis on organization theory and behavior, human resources and diversity, communications, production/operations management and quality issues, business ethics, development of management thought, management in the global arena, and management career.

**MGT 301. Principles of Management (NB). (3 Credits)**

A. Prerequisite: junior standing (at least 60 hours) with an overall GPA 2.0. Not for students majoring or minoring in business. Management principles with emphasis on organization theory and behavior, human resources and diversity, communications, production/operations management and quality issues, business ethics, development of management thought, management in the global arena, and management careers. Credit will not be awarded to students who have completed MGT 300.

**MGT 320. Human Resource Management. (3 Credits)**

I, II. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" in each prerequisite course). Survey of principles and practices in the areas of human resource planning, job analysis, recruitment, selection, training and development, performance appraisal, compensation, labor relations, safety and health, equal employment opportunity, and personnel research.

**MGT 330. Small Business Management Innovation and Entrepreneurship. (3 Credits)**

A. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" or better in each prerequisite course). This course offers an emphasis on the role of innovation and entrepreneurship in the creation and management of new ideas, concepts, techniques, processes, methods, ventures and knowledge.

**MGT 335. Innovation Lab. (0 Credits)**

Prerequisite: Department Approval. Corequisite/Prerequisite: ACC 200 or ACC 202 or BUS 209, GBU 204 or BUS 204, CCT 270, FIN 310, MGT 300 or 301 or BUS 303 or MKT 300 or MKT 301 or BUS 305, MGT 330. Course identifies value proposition and business model within student's major. Course culminates with professionally prepared business model canvas, pitched to faculty and others.

**MGT 340. Management Science. (3 Credits)**

I, II. Prerequisite: QMB 200 (with a grade of "C" or higher), or STA 215 or STA 270 (with a grade of "C" or higher). Business decision making approaches and quantitative techniques with an emphasis on the formulation and application of models and the practical solution methods available.

**MGT 349. Applied Learning in Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used as upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (all options) are limited to a maximum of nine co-op hours counting toward degree. Co-op hours may be repeated up to nine hours.

**MGT 349A. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (all options) are limited to a maximum of nine co-op hours counting toward degree. Co-op hours may be repeated up to nine hours.

**MGT 349B. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349C. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349D. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349E. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349F. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349G. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 349H. Cooperative Study: Management. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. May be used for upper division business electives and/or free electives as approved. Will not count as Management elective. Management Majors (All Options) are limited to a maximum of 9 co-op hours counting toward degree. Co-op hours maybe repeated up to nine hours.

**MGT 370. Operations Management. (3 Credits)**

I, II. Prerequisite: MGT 300 (with a minimum grade of "C"). Practical approaches for improving productivity of operations using methods designed for quality management, sales forecasting, facility layout and location, human resource planning and scheduling, and inventory control.

**MGT 375. Supply Chain Management. (3 Credits)**

A. Prerequisite: MGT 300 (with a minimum grade of "C"). The integration of key business processes from end-user through original suppliers that add value for customers and other stakeholders. Topics include: integration and strategic partnering, procurement and outsourcing strategies, value-added services and international challenges.

**MGT 400. Organization Theory. (3 Credits)**

I, II. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" in each prerequisite course). Principles of organization design as they relate to goals and strategy formulation, environmental conditions, technology, job design, control systems, and decision making.

**MGT 406. Continuous Imp in Organization. (3 Credits)**

A. Prerequisites: MGT 300 and QMB 200 or MGT 301 (with a minimum grade of "C" in each prerequisite course). Advanced methods and techniques used to analyze change, monitor, and analyze organizational performances, control resources, and otherwise direct the management of complex organizations.

**MGT 415. Organizational Conflict Navigation. (3 Credits)**

Prerequisite: MGT 300 or 301 (with a minimum grade of "C" in each prerequisite course.) Analysis of organizational conflict situations with a particular focus on the cause and management of such situations. Interactive development of conflict management skillset, application of skillset to conflict situations, and extensive exploration of negotiation.

**MGT 425. Compensation Management. (3 Credits)**

II. Prerequisite: Management Majors with a Human Resource Management Concentration only or departmental approval and MGT 320 (with a minimum grade of "C"). Advanced study of the human resource function of employee compensation. Topics include job analysis and evaluation, compensation surveys, pay structures, budgeting, pay for performance systems, benefits administration, and federal regulation of compensation management.

**MGT 430. International Management. (3 Credits)**

A. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" in each prerequisite course). The study of management of international organizations with emphasis on techniques, processes and structures. Topics include organizational culture, leadership, ethics, decision-making, and human resource management.

**MGT 435. Supply Chain Network Design. (3 Credits)**

I. Prerequisites: MGT 370 (with a minimum grade of "C" in each prerequisite course). Selecting the optimal role, number, location, size and capacity of suppliers, manufacturing facilities, service locations, warehouses, retail stores and other facilities. Modeling of the supply chain to optimize operational decisions and reduce costs.

**MGT 440. Human Resource Development. (3 Credits)**

I. Prerequisite: Management Majors with a Human Resource Management Concentration only or departmental approval and MGT 320 (with a minimum grade of "C"). Advanced study of human resource management functions aimed directly at enhancing organizational effectiveness. Topics include training needs analysis; training program design, implementation, and evaluation; performance management and appraisal; and costing human resource development programs.

**MGT 444. Strategic Sourcing. (3 Credits)**

A. Prerequisite: BUS 306 (with a minimum grade of "C"). Management decisions and tools for the alignment of overall business strategy and purchasing objectives and strategies in the purchasing process as it focuses on supply efficiency and effectiveness. Credit will not be awarded for both MKT 431 and MGT 444.

**MGT 445. Employee Recruitment and Selection. (3 Credits)**

II. Prerequisite: Management Majors only and MGT 320 (with a minimum grade of "C"). Advanced study of the human resource function of staffing. Topics include: recruitment, the design and implementation of effective selection procedures which comply with federal/state requirements; analysis and reporting of employee data.

**MGT 446. Logistics Management. (3 Credits)**

A. Prerequisite: BUS 306 (with a minimum grade of "C"). The management decisions and tools for the movement and storage of goods, including logistics information systems, segmental positioning, order management and fulfillment, inventory, forecasting, and collaborative planning, transpiration, third party logistics, warehousing, materials handling, international logistics, and facility network design. Credit will not be awarded for both MKT 315 and MGT 446.

**MGT 450. Management Management Seminar. (3 Credits)**

A. May be retaken under different sub-topics to a cumulative maximum of nine hours. Selected topics in contemporary management literature.

**MGT 460. Performance Management. (3 Credits)**

I. Prerequisite: Management Majors with a Human Resource Management Concentration only or departmental approval and MGT 320 (with a minimum grade of "C"). Managing employee, team, and organizational performance. Topics include employee feedback, coaching, discipline, team/workgroup effectiveness, workforce and HR analytics, employee engagement, and development of personal competencies for leading and managing people to achieve performance excellence.

**MGT 480. Organization Behavior. (3 Credits)**

I, II. Prerequisite: MGT 300 or MGT 301 (with a minimum grade of "C" in each prerequisite course). Determinants and consequences of behavior in business organizations are analyzed in the contemporary language of administrative social systems and models. Interdependence of economic, social, and behavioral factors is emphasized.

**MGT 490. Special Problems in Management. (1-4 Credits)**

A. Prerequisite: advisor/ departmental approval. May be retaken under different sub-topics to a cumulative maximum of six hours. Independent work, special workshop, special topics, or seminars. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**MGT 854. Advanced Management Concepts. (3 Credits)**

A. Prerequisite: MGT 821 or equivalent. Examines the evolution of management concepts and philosophies. An analysis of the contributions of various philosophies toward the synthesis of an eclectic philosophy of management.

**MGT 860. Seminar in Human Resource Mgt. (3 Credits)**

A. Prerequisites: MGT 821 or equivalent and MGT 320. Advanced study of contemporary topics related to the effective management of human resources. May be retaken under different subtopics to a cumulative maximum of six hours.

**MGT 865. Seminar in Global Management. (3 Credits)**

A. Prerequisite: MGT 850. Advanced study of the management of global or multinational organizations, with emphasis on areas of problems and managerial control techniques.

**MGT 890. Independent Study in MGT. (1-4 Credits)**

A. Prerequisite: advisor/ departmental approval. May be retaken under different subtopics to a cumulative maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## MKT Marketing (MKT)

**MKT 300. Principles of Marketing. (3 Credits)**

I, II. Prerequisites: School of Business or BBA major; sophomore standing with an overall minimum 2.0 GPA. Overview of strategic processes involved in marketing goods and services to global markets; study of behavioral, organizational, and consumer variables in decision processes; use of the marketing mix and marketing information to affect buyer decisions. Credit will not be awarded to students who have completed MKT 301.

**MKT 301. Principles of Marketing (NB). (3 Credits)**

A. Prerequisite: sophomore standing with an overall GPA of 2.0. Not for students majoring or minoring in business. Overview of strategic processes involved in marketing goods and services to global markets; study of behavioral, organizational, and consumer variables in decision processes; use of the marketing mix and marketing information to affect buyer decisions. Credit will not be awarded to students who have completed MKT 300.

**MKT 306. Services Marketing. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301 (with a minimum grade of "C" in each prerequisite course). Understanding the customer from the services and non-profit marketing perspectives. Examination of marketing inservice industries with emphasis on the unique aspects of services marketing, the service marketing mix and the implementation of services strategies.

**MKT 309. Integrated Marketing Communications. (3 Credits)**

(3) A. Prerequisite: MKT 300 or MKT 301 (with a grade of "C" or better in each prerequisite course). A course covering the theories, strategies, and skills of Integrated Marketing Communication, with a special emphasis on applying IMC to the Internet and World Wide Web (WWW).

**MKT 310. Personal Selling. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301 (with a minimum grade of "C" in each prerequisite course) Personal selling in marketing; the selling process, stressing the modern, international sales/marketing approach to customer society oriented problem solving.

**MKT 315. Logistics. (3 Credits)**

A. Prerequisite: MKT 300 (with a minimum grade of "C"). Movement and storage of goods, coordination and control of inventory, customer service, packaging, materials handling, facilities location, flow of information, and transportation.

**MKT 349. Applied Learning in Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349A. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349B. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349C. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349D. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349E. Cooperative Study: Marketing. (0.5-8 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349G. Coop Study in Marketing. (1-3 Credits)**

A. Prerequisites: minimum GPA 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required for each credit hour. Three hours may be used as an upper division business elective in the Marketing option. Three hours are required in the Music Marketing option. May be repeated for a total of 16 credit hours.

**MKT 349H. Coop Study in Marketing. (1-3 Credits)****MKT 350. Consumer Behavior in Marketing. (3 Credits)**

I, II. Prerequisite: MKT 300 or MKT 301 (with a minimum grade of "C" in each prerequisite course). Role of consumer decision-making as it affects the marketing firm; basic concepts of consumer behavior and interrelationships that exist between marketing and the behavioral sciences.

**MKT 370. Sports Marketing. (3 Credits)**

A. Prerequisite: MKT300 or 301. The strategic application of marketing theories and perspectives to the sports industry. Topics include sports franchise promotion, sports identification, consumer loyalty to teams and participation sports, and marketing with the assistance of sports figures.

**MKT 380. Seminar in Marketing. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301. May be retaken under different sub-topics to a cumulative maximum of six hours. Selected topics in contemporary marketing literature.

**MKT 400. International Marketing. (3 Credits)**

(3) I, II. Prerequisite: MKT 300 (with a minimum grade of "C") Determination of marketing strategy by United States firms and multinational corporations for serving foreign markets and for adapting to variations in cultural and economic factors affecting foreign marketing efforts.

**MKT 401. Digital Marketing. (3 Credits)**

A. Prerequisite: MKT 300 or 301 (with a minimum grade of "C" in each prerequisite course). Survey, analysis, and evaluation of current trends and issues in marketing in computer mediated environments, including how the marketing mix is adapted strategically to the Internet and World Wide Web, intranets, and other digital forms of media.

**MKT 404. Retailing Management. (3 Credits)**

A. Prerequisite: MKT 300 or 301 (with a minimum grade of "C" in each prerequisite course). Investigation of current problems faced by retailers in store operations, management, retail buying, and inventory control. Outside readings, oral and written case studies, and field trip experiences are required.

**MKT 408. Sales Management. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301 (with a minimum grade of "C"). Sales function in modern organizations with emphasis on current management techniques: time management, on-the-job coaching, directing the sales force to sell key accounts, situational analysis, and decision-making.

**MKT 420. Marketing of the Arts. (3 Credits)**

A. Prerequisite: MKT300 or MKT301. Essentials of marketing and marketing strategies for the arts organizations and individual artists to reach diverse arts audiences.

**MKT 431. Strategic Procurement. (3 Credits)**

A. Prerequisite: MKT 300 (with a minimum grade of "C"). The purchasing process as it focuses on supply efficiency and effectiveness relating to the fit between purchasing objectives and strategies and organizational objectives and strategies.

**MKT 435. Marketing for Entrepreneurs. (3 Credits)**

I. Prerequisite MKT 300 or 301 (with a minimum grade of "C" in each prerequisite course). Investigation and understanding of the role marketing plays within the entrepreneurial context. Includes discussion and review of tools and approaches for effective planning, implementation and evaluation of business and marketing strategies and tactics. Topics include: product creation, market research, strategic innovation, opportunity identification, customer communication, branding, and channels of distribution.

**MKT 440. Industrial Marketing. (3 Credits)**

A. Prerequisite: MKT 300 or MKT 301 (with a grade minimum of "C"). An analysis of the sales and marketing structure for business-to-business products. Product lines, channels of distribution, selling, strategy pricing, wholesaling and distribution.

**MKT 455. Marketing Research and Analysis. (3 Credits)**

I, II. Prerequisites: MKT 300 or MKT 301 and QMB 200 or STA 215 or STA 270 (with a minimum grade of "C" in each prerequisite course). The role of research in marketing decision-making; the research process, with emphasis on collection, analysis, and interpretation of data as applied to solving marketing problems. Students are required to do a research project.

**MKT 456. Qualitative Research in Marketing. (3 Credits)**

(3) A. Prerequisites: MKT 300 or MKT 301 with a minimum grade of "C"; junior or senior standing. Students will learn to design and actively engage in qualitative research projects, collecting and analyzing qualitative data such as interviews, in a marketing context.

**MKT 457. Experimental Design for Marketing. (3 Credits)**

(3) I, II. Prerequisite: BUS 305 or MKT 301 and STA 215 or STA 270 (with a minimum grade of "C" in each prerequisite course). Students will learn how to design an experimental study, collect and analyze the data in a marketing context, and interpret and present the analyses.

**MKT 460. Marketing Management. (3 Credits)**

I, II. Prerequisites: BUS 305 and MKT 401 or MKT 455 or MKT 456 or MKT 457 (with a minimum grade of "C" in each prerequisite course), Marketing Majors with Marketing Option and Senior Standing. The strategic marketing planning process involving analysis of the changing market place; analysis of alternative strategies to meet the needs of target markets; and the profitable execution of the marketing plan.

**MKT 470. Advanced Sales. (3 Credits)**

Departmental approval required, and MKT 300 or MKT 301 (with a minimum grade of "C"). In-depth study and application of aspects of the sales process. Combines classroom knowledge and practical, competitive sales experience. Students invited into this course have demonstrated ability and strong desire to pursue the sales role.

**MKT 481. Internship in Marketing. (3,6 Credits)**

(3 or 6) A. Prerequisites: minimum 2.25 GPA, MKT 300, MGT 300 (with a minimum grade of "C" in each prerequisite course.) and consent of instructor. Provides student with half-time or full-time relevant work experience in marketing. Written assignments and a project are required. May be taken only once for three (3) or six (6) hours of credit and not concurrently with Cooperative Study.

**MKT 490. Special Problems in Marketing:\_\_\_\_. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. May be retaken under different sub-topics to a cumulative maximum of six hours. Independent work, special workshop, social topics, or seminars. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**MKT 851. E-Commerce Marketing Strat. (3 Credits)**

A. Prerequisite: MKT 850 or equivalent. Study of marketing strategies as created for and implemented on the Internet's World Wide Web and other computer mediated environments. Evaluation of contribution of marketing to development of e-commerce and evolution of offline marketing systems.

**MKT 852. Marketing Research & Analysis. (3 Credits)**

A. Prerequisite: Admission into the MBA program and successful completion of any required prerequisite MBA foundation courses or departmental approval. The role of research in marketing decision-making: the research process, with emphasis on collection, analysis, interpretation, and management of data as applied to solving marketing problems. Students are required to do a research project.

**MKT 854. Global Marketing Strategies. (3 Credits)**

A. Prerequisite: MKT 850. Examination of marketing management within the international environment, with particular emphasis on the analysis of cases which illustrate international and global marketing decisionmaking.

**MKT 880. Contemp Issues in Marketing. (3 Credits)**

A. Prerequisites: MKT 850 and advisor/departmental approval. May be retaken under different subtopics to a cumulative maximum of six hours. Selected topics in contemporary marketing issues.

**MKT 890. Independent Study in Marketing. (1-4 Credits)**

A. Prerequisite: advisor/departmental approval. May be retaken under different subtopics to a cumulative maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## MLS Medical Laboratory Science (MLS)

**MLS 201. Introduction to Medical Laboratory. (3 Credits)**

II. Open to all students. Techniques common to clinical laboratories. Stresses basic physical and chemical principles of disease process. 3 Lec.

**MLS 209. Microbiology for Health Sciences. (3 Credits)**

(3) A. Study of the bacteria, fungi, viruses, and parasites as agents of human disease with emphasis on the pathogenesis, epidemiology, and diagnosis of infectious diseases. 3 Lec.

**MLS 211. Medical Microbiology Laboratory. (1 Credit)**

I,II. Laboratory methods in the diagnosis and management of infectious diseases. 2 Lab.

**MLS 290. Medical Biochemistry. (3 Credits)**

I. Formerly CLS 290 Prerequisite: CHE 112, 112L, and BIO 121 or BIO 111. The study of biochemical systems of the body with emphasis on medical consequences when these systems are disrupted. Topics: proteins, carbohydrates, lipids, DNA/RNA and liver function. Credit will not be awarded for both CLS290 and MLS290.

**MLS 300. Clinical Laboratory. (2 Credits)**

I. Formerly CLS 300 Prerequisite: enrollment in upper division MLS program or departmental approval. Lab calculations, instrumentation, and quality assurance. 2 Lec. Credit will not be awarded for both CLS300 and MLS300.

**MLS 303. Clinical Laboratory Skills. (1 Credit)**

I, II. Formerly CLS 303 Prerequisite: enrollment in upper division MLS program or departmental permission. Skills for clinical laboratory practitioners, including laboratory safety, phlebotomy, microscopy, pipetting, universal precautions, and principles of quality assurance. Credit will not be awarded for CLS303 and MLS303.

**MLS 305. Analysis of Body Fluids. (2 Credits)**

(2)I Formerly CLS 305 Prerequisite: enrollment in upper division MLS program or departmental approval. Principles, procedures, and significance of analysis of urine, spinal fluid, and other fluids commonly examined in the clinical laboratory. 3 Lec/Lab. Credit will not be awarded for both CLS305 and MLS305.

**MLS 308. Serology and Molecular Techniques. (2 Credits)**

I. Prerequisite: Enrollment in upper division MLS program or departmental approval. Principles, procedures, sources of error, clinical application of serological tests, molecular techniques and specimen collection; 4 Lec/Lab.

**MLS 309. Clinical Immunology. (1 Credit)**

I, II. Formerly CLS 309 Prerequisite: Enrollment in upper division MLS program or departmental approval. Principles and techniques of antigen-antibody reactions of the human immune system and their relationship to the clinical laboratory. Credit will not be awarded for both CLS309 and MLS309.

**MLS 310. Hematology and Coagulation. (5 Credits)**

I. Formerly CLS 310 Prerequisite: enrollment in upper division MLS program or departmental approval. Morphology of blood cells, determination of blood parameters and disorders/diseases associated with blood cells; biochemistry, procedures and disorders/diseases in coagulation. 3 Lec/4 Lab. Credit will not be awarded for both CLS310 and MLS310.

**MLS 320. Immunohematology. (3 Credits)**

II. Formerly CLS 320 Prerequisite: enrollment in upper division MLS program or departmental approval. Blood banking, blood grouping, phenotyping, cell panels, compatibility testing, and transfusion practices. 2 Lec/2 Lab. Credit will not be awarded for both CLS320 and MLS320.

**MLS 346. Clinical Chemistry. (5 Credits)**

II. Formerly CLS 346 Prerequisite: enrollment in upper division MLS program or departmental approval. Introduction to theory and lab procedures, measurement of constituents of body fluids, instrumentation, and clinical interpretation of results in relation to biochemistry of human systems. 3 Lec/3 Lab. Credit will not be awarded for both CLS346 and MLS346.

**MLS 350. Bacteriology. (5 Credits)**

I. Formerly CLS 350 Prerequisite: Enrollment in the upper division MLS program or departmental approval. Study of medically important bacteria with emphasis on the clinical laboratory methods of microscopy, cultivation, identification, antimicrobial susceptibility testing, and quality control. 3 Lec/4 Lab. Credit will not be awarded for both CLS350 and MLS350.

**MLS 355. Mycology, Parasitology, and Virology. (4 Credits)**

II. Formerly CLS 355 Prerequisites: Enrollment in the upper division MLS program or departmental approval. Study of fungi, parasites, and viruses as agents of human disease, with emphasis on the clinical laboratory methods of microscopy, in vitro cultivation, identification, and quality control. 3 Lec/1 Lab. Credit will not be awarded for both CLS355 and MLS355.

**MLS 431. Clinical Correlations. (3 Credits)**

I, A. Formerly CLS 431 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Correlates the sub-disciplines of clinical laboratory science. Reviews all areas and stresses laboratory medicine in the health professions. 3 Lec. Credit will not be awarded for both CLS431 and MLS431.

**MLS 432. Clinical Chemistry Practicum. (5 Credits)**

II, A. Formerly CLS 432 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Diagnostic chemical procedures in an affiliated laboratory. Credit will not be awarded for both CLS432 and MLS432.

**MLS 434. Clinical Microbiology Practicum. (4 Credits)**

I, II. Formerly CLS 434 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Clinical bacteriology, parasitology, and mycology in an affiliated laboratory. Credit will not be awarded for both CLS434 and MLS434.

**MLS 436. Lab Management and Education. (1 Credit)**

I, II. Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Study of specific problems, topics, or issues in Medical Laboratory Science. Additional course topics include leadership, management and professionalism.

**MLS 437. Clinical Laboratory Seminar. (3 Credits)**

I, II. Formerly CLS 437 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Case studies, advanced procedures, and problem solving in the clinical laboratory. Credit will not be awarded for both CLS437 and MLS437.

**MLS 438. Hematology Practicum. (4 Credits)**

I, A. Formerly CLS 438 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Diagnostic blood parameters and morphology studies in an affiliated laboratory. Credit will not be awarded for both CLS438 and MLS438.

**MLS 439. Urinalysis Practicum. (1 Credit)**

I, A. Formerly CLS 439 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Diagnostic urine and body fluid procedures in an affiliated laboratory. Credit will not be awarded for both CLS439 and MLS439.

**MLS 440. Blood Bank Practicum. (2 Credits)**

II, A. Formerly CLS 440 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Practical blood banking in an affiliated laboratory. Credit will not be awarded for both CLS440 and MLS440.

**MLS 441. Immunology Practicum. (1 Credit)**

I, II, A. formerly CLS 441 Prerequisites: enrollment in upper division MLS program and completion of all 300-level MLS courses. Practical immunology in an affiliated laboratory. Credit will not be awarded for both CLS441 and MLS441.

## MLT Medical Laboratory (MLT)

**MLT 201. Urinalysis. (1 Credit)**

I, II. Formerly CLT 201 Prerequisite: admission to MLT program or departmental approval. Principles, procedures, and significance of analysis of urine, spinal fluid, and other body fluids commonly examined in the clinical laboratory. 1 Lec/Lab. Credit will not be awarded for both CLT201 and MLT201.

## MPH Public Health (MPH)

**MPH 800. Env. Health Research Process. (3 Credits)**

A. Formerly EHS 800. Cross-listed with ESS 800. Provides the student with an in-depth exploration of the public health/environmental health paradigm using instruction and hands on experience in the application of quantitative and qualitative analysis in the public and environmental health arena. Credit will not be awarded to students who have credit for ESS 800 or EHS 800.

**MPH 810. Human Behavior Change. (3 Credits)**

A. Formerly HEA 810. This course examines selected theories and models of health behavior relevant to health promotion in individuals and communities. Students will analyze biological, psychological, sociological, and environmental influences on behavior, and evaluate strategies for health promotion.

**MPH 816. Public Health Org and Admin. (3 Credits)**

A. Formerly HEA 816. In-depth exploration of the myriad of forces impacting public health organization and administration at local, state, and national level; the relationship between legislative action, effectiveness of public health efforts, and future of public health.

**MPH 825. Public Health Planning. (3 Credits)**

A. Cross-listed as HEA 825. The study of the planning tools required for the administration and implementation of public health programs. Credit will not be awarded to students who have credit for HEA 825.

**MPH 830. Biostatistics in Health Sci. (3 Credits)**

A. Formerly HEA 830. This course is an introduction to basic concepts of statistics as applied to public health. Major topics to be covered include descriptive statistics, theoretical distributions, probability, estimation, hypothesis testing, correlation, analysis of variance, and regression.

**MPH 835. Survey of PH Statistical Analy. (3 Credits)**

A. Prerequisite: MPH 830 or departmental approval. Formerly EHS 835. A survey course of the commonly used public health statistical programs for analysis of data, such as SPSS, SAS, Minitab, and Stata. Emphasis placed on applying statistical analysis using public health data.

**MPH 840. Rsrch Mthds in Public Health. (3 Credits)**

II. Emphasis will be on identifying a public health research problem, constructing hypotheses, selecting a research design and statistical analyses, and interpreting findings of the study.

**MPH 850. Intro to Envir. Health Science. (3 Credits)**

A. Formerly EHS 850. Study of the effects of the environment on personal and public health related to water and waste water treatment, air pollution, food hygiene, disease vectors, waste disposal, radiation, noise, institutions, etc. as they link to chronic and communicable diseases.

**MPH 855. Principles of Epidemiology. (3 Credits)**

A. Formerly HEA 855. A study of the distribution and determinants of disease and injury. Research methodologies for human research and disease surveillance techniques will be emphasized.

**MPH 895. Public Health Capstone. (1 Credit)**

II. This capstone course will allow students the opportunity to integrate and apply competencies acquired through the MPH program to problems likely to be encountered in public health practice. The course is designed to partially meet the integrated learning experience requirement for students in the program.

## MSL Military Sci & Leadership (MSL)

**MSL 101. Introduction to the Army and Critical Thinking. (2 Credits)**

I. Cadets will learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness related to leadership, officership, and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions, attributes and core leader competencies while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for the student. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 1 Lec/1 Lab.

**MSL 102. Introduction to the Profession of Arms. (2 Credits)**

(2) II. Cadets will learn how Army ethics and values shape the Army and the specific ways that these ethics are inculcated into Army culture. Cadets can expect to explore the seven Army Values, Warrior Ethos, explore the Profession of Arms, Army Leadership and critical communication skills. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 1 Lec/1 Lab.

**MSL 201. Leadership and Decision Making. (2 Credits)**

(2) I. Primarily is drawn from the Adaptability Army Learning Areas (ALA). The outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP). Comprehension of the officer's role in leading change by applying innovative solutions to problems in concert with the Principals of Mission Command. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 2 Lec/1 Lab.

**MSL 202. Army Doctrine and Team Decision. (3 Credits)**

(3) II. Begins the journey to understand and demonstrate cross-cultural competencies as they relate to Army doctrine and how they apply in a combatant commander's engagement strategies. Army values, teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military science are also stressed. The ability to lead and follow is also covered through team building exercises in small units up to squad level. Students are required to apply their knowledge outside the classroom in hands-on performance-oriented environment during Leadership LABS. 2.5 Lec/2.5 Lab.

**MSL 210. Basic Camp. (5 Credits)**

(5) Summer Only. A comprehensive leader training course which can be taken in lieu of 201 and 202. This course emphasizes an experiential, hands-on approach to leader development. Held at Fort Knox, Kentucky. Students are paid to attend.

**MSL 298. Independent Leadership Studies. (2,3 Credits)**

A. Prerequisite: departmental approval; may be taken once in lieu of MSL 201 or 202. Students record observed traits in a dimensional leadership journal and discuss observations with instructor. Independent examination of effective leadership, communications, goal setting, decision-making, problem solving, and quality improvement techniques. 2.5 Ind Stu/2.5 Lab.

**MSL 301. Training Management and the Warfighting Functions. (3 Credits)**

(3) I. Prerequisites: 54 hours, MSL 201 and MSL 202 or MSL 210; or Departmental approval. Challenges cadets to study, practice and apply the fundamentals of Army Leadership, Officership, Army values and ethics, personal development, and small unit tactics at the platoon level. Cadets receive systematic and specific feedback on their leadership attributes values, and core leader competencies from instructor, other ROTC cadre, and MSL IV cadets using the Cadet Officer Evaluation System (OES). Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 2.5 Lec/2.5 Lab.

**MSL 302. Applied Leadership in Small Unit Operations. (3 Credits)**

(3) II. Prerequisite: MSL 301 or departmental approval. Builds on the lessons learned and leadership attributes gained and developed during MSL 301. This is an academically challenging course where cadets will study, practice, and apply the fundamentals of the Army leadership, officership, Army values and ethics, personal development and small unit tactics at the platoon level. At the conclusion of this course, cadets will be capable of planning coordinating, navigating, motivating and leading a squad and platoon in the execution of a mission during a classroom PE, a Leadership Lab, or during a Leader Training Exercise (LTX). Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). Lab 2.5 Lec/2.5 Lab.

**MSL 303. American Military History. (3 Credits)**

I. Prerequisite: ENG 102 or ENG 105(B) or HON 102. Examines U.S. Military History from pre-revolutionary times to Global War on Terrorism, Applies the TThreads of Continuity model, defines the (9) principles of war; (5) forms of maneuver, analyzes the political-economic-technological-social impacts on the military. Develops leadership through individual/group contribution participation in case studies, classroom presentations, book report, battle analysis, and battlefield staff ride/museum tour. Gen Ed Element 5A-History.

**MSL 310. Advance Camp. (6 Credits)**

(6) Summer Only. Prerequisite: MSL 302. Refines student leadership and teamwork building skills through intensive practical application, rotating leader/command experience involving problem analysis, decision-making, and troop leading in both garrison and field environments. Held at Fort Lewis, Washington.

**MSL 311. Internship in Leadership. (3 Credits)**

Summer Only. Pre and Corequisites: MSL 301, MSL 302 and enrolled in MSL 310. Students assigned to leadership positions with active army units for 3-4 weeks. Students are paid and receive a written evaluation of their leadership performance and potential and must complete an after action report upon returning. May only be taken once.

**MSL 401. The Army Officer. (3 Credits)**

(3) I. Prerequisite: MSL 302 or departmental approval. Develops cadet proficiency in planning, executing and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Cadets assess risk make ethical decisions, and lead fellow Army ROTC cadets. They identify responsibilities of key staff, coordinate staff roles and use situational opportunities to teach, train and develop subordinates. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). .5 Lec/2.5 Lab.

**MSL 402. Company Grade Leadership. (3 Credits)**

(3) II. Prerequisite: MSL 401 or departmental approval. Explores the dynamics of leading in the complex situations of current military operations in today's operational environment. Cadets examine difference in customs and courtesies, military law, principles of war and rules of engagement in the face of international terrorism. They also explore aspects of interacting with nongovernmental organizations, civilians on the battlefield and host nation support. The course places significant emphasis on preparing cadets for their first unit of assignment. Students are required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during leadership labs (team building exercises, field training exercises, and/or simulation exercises). 2.5 Lec/2.5 Lab.

**MSL 403. Topics in Military Leadership. (1 Credit)**

A. Prerequisite: MSL 402. Study of current issues relevant to the professional development and commissioning of Second Lieutenants in the United States Army. May repeat with different topics for a maximum of 4 hours. 1 Lec/1 Lab.

**MSL 498. Advanced Independent Leadership Studies. (3 Credits)**

A. Prerequisite: departmental approval; may be taken twice in lieu of MSL 301, 302, 401, or 402. Equivalent study of the materials covered in the course being replaced. 2.5 Ind Stu/2.5 Lab.

## MUE Music Education (MUE)

**MUE 302. Classroom Music Teaching Methods. (2 Credits)**

(2). I. Cross-listed with ELE 303. Prerequisite: Admission to professional education. Co-requisite CED 300. Development of pedagogical skills and methods for teaching music concepts within the framework of a classroom music setting. Credit will not be awarded for both MUE 302 and ELE 303.

**MUE 378. Teaching Music in Grades P-8. (3 Credits)**

(3) II. Cross-listed with EME 378. Prerequisites: admission to professional education, major in music. Co-requisite: CED 400. Developmentally appropriate materials and methods for teaching P-8 music. Credit will not be awarded to students who have credit for EME 378.

**MUE 402. Perf Ensembles Teaching Methods. (2 Credits)**

(2) II. Cross listed with ESE 402. Prerequisite: Admission to professional education. Co-requisite CED 400. Pedagogy for instrumental and vocal performing ensembles in 6th through 12th grade classrooms. Ideas for developing musicianship through hands-on student involvement, ensemble pedagogy and techniques, literature and performance, and incorporation of technology. Credit will not be awarded for both MUE 402 and ESE 402.

**MUE 502. Music Tech Teaching Methods. (2 Credits)**

(2) I. Cross listed with EMS 502. Prerequisite: Instructor approval. Co-requisite: CED 450. Development of strategies and techniques for teaching music through digital pedagogy. Ideas for developing musicianship through hands-on student involvement, as well as the use of technology to aid in instruction and delivery in the P-12 music classroom. Credit will not be awarded for both MUE 502 and EMS 502/702.

**MUE 579. Music Education: Principles and Practices. (3 Credits)**

(3) I. Cross-listed with ESE 579. Prerequisites: EDF 413 (C) EMS 490 (C), CED 400 (B), admission to professional education. Developmentally appropriate materials and methods for teaching music education in secondary schools. Co-requisite CED 450. Credit will not be awarded to students who have credit for ESE 579.

**MUE 702. Music Tech Teaching Methods. (2 Credits)**

2) I. Cross listed with EMS 702. Prerequisite: Instructor approval. Development of strategies and techniques for teaching music through digital pedagogy. Methods for developing musicianship through hands-on student involvement, as well as the use of technology to aid in instruction and delivery in the P-12 music classroom. Credit will not be awarded for both MUE 702 and EMS 702.

**MUE 779. Music Ed: Principles/Practices. (3 Credits)**

(3) I. Cross-listed with ESE 779. Prerequisites: admission to the MAT program or a music certification program and MUS 750. Co-requisite: CED 840. Developmentally appropriate materials and methods for teaching music education in secondary schools. Credit will not be awarded for both MUE 779 and ESE 779.

## MUH Music History (MUH)

**MUH 171. Music Appreciation. (3 Credits)**

I, II. May not count toward a music major or minor. Provides the general college student with a cultural background in music. Masterpieces of music, composers, and techniques presented through listening materials and concert attendance. Gen. Ed. Element 3A.

**MUH 271. Jazz History. (3 Credits)**

I, II. A listening survey course tracing the development of jazz from its roots in the music of West Africa, African American folk music, and European music styles to the present. Gen. Ed. Element 3A.

**MUH 272. Music Literature. (3 Credits)**

I, II. Critical listening and score reading of the standard repertory of music in Western Civilization from Gregorian plainchant to the Contemporary era. Gen. Ed. Element 3A.

**MUH 273. Survey of American Popular Music. (3 Credits)**

I, II. Survey of American popular music establishing its origins and tracing its development to the present time. Gen. Ed. Element 3A.

**MUH 275. Western Musical Traditions I. (2 Credits)**

I. Prerequisite: MUS 118 or department approval. Survey of Western music traditions from Medieval times through the Baroque period.

**MUH 276W. Western Musical Traditions II. (2 Credits)**

B. Prerequisite: ENG 102, 102R, or HON 102; MUH 275 or departmental approval. Survey of western music traditions from the Classical era to the present.

**MUH 372. Survey of Music History II. (3 Credits)**

II. Prerequisite: MUH 371 or departmental approval. Survey of music history from the Classical era to the present. Gen. Ed. VII (AH).

**MUH 373. The Diverse Worlds of Music. (2 Credits)**

A. Prerequisite: ENG 101(C) or 101R(C). An introduction to the academic study of world music, including musicological analysis and various approaches to the historical and socio-cultural issues regarding global musical traditions.

## MUS Music (MUS)

**MUS 101. Performance Class. (0 Credits)**

(0) I, II. Required of all music majors for six semesters. Passing grade achieved when students have attended total of 16 concert events per semester.

**MUS 107. Class Guitar for Nonmajors. (1 Credit)**

I, II. Instruction in guitar for non-music majors. May be retaken to a maximum of 4 hours.

**MUS 108. Class Voice for Nonmajors. (1 Credit)**

I, II. Instruction in singing for non-music majors. May be retaken to a maximum of 4 hours.

**MUS 110. Beginning Class Piano I. (1 Credit)**

I, II. Prepares non-piano majors to meet Level I Piano Proficiency Examination requirements. Basic keyboard skills, elementary repertoire, and technique. Some music reading ability required. May be retaken to a maximum of two hours.

**MUS 111. Beginning Class Piano II. (1 Credit)**

I, II. Prerequisite: MUS 110 or departmental approval. Continuation of MUS 110. May be retaken to a maximum of two hours.

**MUS 112. Piano I. (1,2 Credits)**

I, II. Corequisite: MUS 225 or 226 or 313; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 113. Vocal Teaching Techniques. (1 Credit)**

A. Techniques and pedagogy for helping the beginning singer to develop fundamental habits of singing, and to become familiar with the vocal instrument; its mechanism, terminology, and techniques. Class restricted to music majors only.

**MUS 116. Classroom Instrument Techniques. (1 Credit)**

A. Techniques and pedagogy for incorporating traditional classroom instruments as a vehicle for teaching music. Topics will include ukulele, guitar, barred instruments, and recorder. Class restricted to music majors only.

**MUS 117. Applied Music Theory I. (3 Credits)**

I. An introductory study of the basic materials and organization of music through analysis, composition, aural perception, and performance.

**MUS 118. Applied Music Theory II. (3 Credits)**

II. Prerequisite: MUS 117 with a minimum grade of "C". Continuation of MUS 117. Further study of the basic materials and organization of music through analysis, composition, aural perception, and performance. Class restricted to music majors only.

**MUS 122. Voice I. (1,2 Credits)**

I, II. Corequisite: MUS 225 or 226; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 127. Opera Workshop. (1 Credit)**

I, II. Prerequisite: instructor approval. Preparation and presentation of opera scenes and complete works. All phases of performance and technical procedures of staging, costumes, and management. Course may be retaken.

**MUS 132A. Violin I. (1-2 Credits)**

I, II. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in violin. May be retaken to a maximum of four hours.

**MUS 132B. Viola I. (1-2 Credits)**

I, II. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in viola. May be retaken to a maximum of four hours.

**MUS 132C. 'Cello. (1-2 Credits)**

I, II. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in violin `cello. May be retaken to a maximum of four hours.

**MUS 132D. String Bass I. (1-2 Credits)**

I, II. Corequisite: MUS 235 or 236 or 255A; course open to music majors or minors only. One or two lessons per week. Instruction available in string bass. May be retaken to a maximum of four hours.

**MUS 132F. Guitar I. (1-2 Credits)**

I, II. Corequisite: MUS 257; course open to music majors or minors only. One or two lessons per week. Instruction available in guitar. May be retaken to a maximum of four hours.

**MUS 142. Organ I. (1,2 Credits)**

I, II. Corequisite: MUS 225 or MUS 226 or MUS 313; course open to majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 145A. Trumpet I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in trumpet. May be retaken to a maximum of four hours.

**MUS 145B. French Horn. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 256 ; course open to music majors or minors only. One or two lessons per week. Instruction available in French horn. May be retaken to a maximum of four hours.

**MUS 145C. Euphonium I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in euphonium. May be retaken to a maximum of four hours.

**MUS 145D. Trombone I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in trombone. May be retaken to a maximum of four hours.

**MUS 145E. Tuba I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in tuba. May be retaken to a maximum of four hours.

**MUS 146A. Flute I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in flute. May be retaken to a maximum of four hours.

**MUS 146B. Oboe I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in oboe. May be retaken to a maximum of four hours.

**MUS 146C. Clarinet I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in clarinet. May be retaken to a maximum of four hours.

**MUS 146D. Bassoon I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in bassoon. May be retaken to a maximum of four hours.

**MUS 146E. Saxophone I. (1-2 Credits)**

I, II. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in saxophone. May be retaken to a maximum of four hours.

**MUS 147. Percussion I. (1,2 Credits)**

I, II. Corequisite: MUS 253 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 149. Music Entrepreneurship. (1 Credit)**

I. Develop a growth-mindset, creativity, and strong professional demeanor to help students succeed at EKU and beyond. Class restricted to music majors only.

**MUS 161. Musicianship I. (1 Credit)**

I. Corequisite: MUS 181. Skills and strategies for the perception, identification and performance of the basic materials of music.

**MUS 190. Music Industry I. (2 Credits)**

II. An overview to the music industry. Including a survey of industry careers and skills necessary to succeed in the music business.

**MUS 191. Music Industry II. (2 Credits)**

I. Prerequisite: MUS 190 or departmental approval. Continuation of MUS 190 including music copyright, publishing, and the evolution of the twenty-first century music business model.

**MUS 192. History of the Recording Industry. (2 Credits)**

A. Prerequisite: MUS 191. Understanding of the origins of recording technology, the development of production techniques, and the social/musical/cultural influences that helped shape these changes.

**MUS 201. Introduction to Piano Pedagogy. (1 Credit)**

II. Prerequisites: MUS 112 and major and minor in minor. Discusses teaching techniques, beginner methods, and materials for group and individual piano instruction.

**MUS 202. Introduction to Vocal Pedagogy. (1 Credit)**

II. Prerequisites: MUS 122 and major or minor in music. Studies principles of vocal production in singing and rudimentary concepts of teaching private voice lessons.

**MUS 205. Chamber Music. (0.5 Credits)**

I, II. Study and performance of standard chamber music literature. Open to pianists, vocalists, string, wind, and percussion players upon recommendation of instructor. Course may be retaken.

**MUS 210. Intermediate Class Piano I. (1 Credit)**

II. Prerequisite: MUS 111 or departmental approval. Second year course for non-piano majors to meet Level II Piano Proficiency Examination requirements. Continuation of skill development listed under MUS 110; more complex materials, intermediate repertoire, and technique. May be retaken to a maximum of two hours.

**MUS 211. Intermediate Class Piano II. (1 Credit)**

I, II. Prerequisite: MUS 210 or departmental approval. Continuation of MUS 210. May be retaken to a maximum of two hours.

**MUS 212. Piano II. (1,2 Credits)**

I, II. Prerequisite: MUS 112. Corequisite: MUS 225 or 226 or 313; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 215. Woodwind Teaching Techniques. (1 Credit)**

A. Fingerings, care of instruments, tone production, and tuning. Group instruction to prepare for teaching woodwind instruments in band or orchestra. Examination of woodwind instrument materials suitable for beginning instrumental programs. Open to music majors only.

**MUS 216. Brass Teaching Techniques. (1 Credit)**

A. Fingering, slide positions, care of brass instruments, tone production, and tuning. Group instruction to prepare for teaching brass instruments in band or orchestra. Examination of brass materials suitable for beginning instrumental programs. Open to music majors only.

**MUS 217. Applied Music Theory III. (3 Credits)**

I. Prerequisite: MUS 118 with a minimum grade of "C". Continuation of MUS 118. Advanced study of the materials and organization of music through analysis, composition, aural perception, and performance.

**MUS 218. Applied Music Theory IV. (3 Credits)**

II. Prerequisite: MUS 217 with a minimum grade of "C". Continuation of MUS 217. Further advanced study of the materials and organization of music through analysis, composition, aural perception, and performance.

**MUS 220. Diction for Singers. (1 Credit)**

II. For voice, education, and choral conducting students. Enunciation and projection; accurate pronunciation in English, Italian and Ecclesiastical Latin. Phonetics and the International Phonetic Alphabet.

**MUS 221. Diction for Singers II. (1 Credit)**

I. Prerequisite: MUS 220. For voice students. Enunciation and projection; accurate pronunciation of German and French poetry and poetry in song. Using the International Phonetic Alphabet (IPA).

**MUS 222. Voice II. (1,2 Credits)**

I, II. Prerequisite: MUS 122. Corequisite: MUS 225 or 226; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 224. Chamber Singers. (1 Credit)**

(1) Highly select small ensemble dedicated to the highest standards of preparation and performance of choral literature from all style periods. Membership is by audition only. May be retaken to a maximum of four hours.

**MUS 225. Concert Choir. (1 Credit)**

(0-1) Large mixed chorus open to all singers. This choir places an emphasis on developing sight reading and performance skills while providing a challenging and satisfying musical experience. Course may be retaken.

**MUS 226. University Singers (SATB). (1 Credit)**

(0-1) I, II. Advanced choral ensemble of mixed voices open by audition only. Rehearsal and performance of choral repertoire from various styles and eras. Presents several major concerts throughout the year on and off campus. Course may be retaken.

**MUS 228A. ENChor (SSAA Choir). (1 Credit)**

I, II. Choral ensemble of soprano/mezzo/alto voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Repeatable maximum number of hours: 4.

**MUS 228B. Koros (TTBB Choir). (1 Credit)**

I, II. Choral ensemble of tenor/baritone/bass voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Repeatable maximum number of hours: 4.

**MUS 230. String Instruments Methods I. (1 Credit)**

I. Fingering, care of instruments and tone production. Group instruction to prepare for teaching strings in class and for training string section of school orchestra; survey of teaching materials.

**MUS 232A. Violin II. (1-2 Credits)**

I, II. Prerequisite: MUS 132a. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in violin. May be retaken to a maximum of four hours.

**MUS 232B. Viola II. (1-2 Credits)**

I, II. Prerequisite: MUS 132b. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in viola. May be retaken to a maximum of four hours.

**MUS 232C. Cello II. (1-2 Credits)**

I, II. Prerequisite: MUS 132c. Corequisite: MUS 235 or 236; course open to music majors or minors only. One or two lessons per week. Instruction available in violin `cello. May be retaken to a maximum of four hours.

**MUS 232D. String Bass II. (1-2 Credits)**

I, II. Prerequisite: MUS 132d. Corequisite: MUS 235 or 236 or 255A; course open to music majors or minors only. One or two lessons per week. Instruction available in string bass. May be retaken to a maximum of four hours.

**MUS 232F. Guitar II. (1-2 Credits)**

I, II. Prerequisite: MUS 132f. Corequisite: MUS 257; course open to music majors or minors only. One or two lessons per week. Instruction available in guitar. May be retaken to a maximum of four hours.

**MUS 235. Symphony Orchestra. (1 Credit)**

I, II. Prerequisite: Audition. Rehearsal and performance of orchestra literature from all style periods. Concerts given both on and off campus. Three or more hours rehearsal per week. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 236. String Orchestra. (1 Credit)**

I, II. Rehearsal and performance of string orchestra literature from all style periods. Concerts given both on and off campus. Two or more hours of rehearsal per week. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 245A. Trumpet II. (1-2 Credits)**

I, II. Prerequisite: MUS 145a. Corequisite: MUS 250 and 235 or 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in trumpet. May be retaken to a maximum of four hours.

**MUS 245B. French Horn II. (1-2 Credits)**

I, II. Prerequisite: MUS 145b. Corequisite: MUS 250 and 235 or 255a or 255b or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in French horn. May be retaken to a maximum of four hours.

**MUS 245C. Euphonium II. (1-2 Credits)**

I, II. Prerequisite: MUS 145c. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available euphonium. May be retaken to a maximum of four hours.

**MUS 245D. Trombone II. (1-2 Credits)**

I, II. Prerequisite: MUS 145d. Corequisite: MUS 250 and 235 or 255a or 255b or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in trombone. May be retaken to a maximum of four hours.

**MUS 245E. Tuba II. (1-2 Credits)**

I, II. Prerequisite: MUS 145e. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in tuba. May be retaken to a maximum of four hours.

**MUS 246A. Flute II. (1-2 Credits)**

I, II. Prerequisite: MUS 146a. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in flute. May be retaken to a maximum of four hours.

**MUS 246B. Oboe II. (1-2 Credits)**

I, II. Prerequisite: MUS 146b. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in oboe. May be retaken to a maximum of four hours.

**MUS 246C. Clarinet II. (1-2 Credits)**

I, II. Prerequisite: MUS 146c. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in clarinet. May be retaken to a maximum of four hours.

**MUS 246D. Bassoon II. (1-2 Credits)**

I, II. Prerequisite: MUS 146d. Corequisite: MUS 250 and 255A or 255B or 235 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in bassoon. May be retaken to a maximum of four hours.

**MUS 246E. Saxophone II. (1-2 Credits)**

I, II. Prerequisite: MUS 146e. Corequisite: MUS 250 and 255A or 255B or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in saxophone. May be retaken to a maximum of four hours.

**MUS 247. Percussion II. (1,2 Credits)**

I, II. Prerequisite: MUS 147. Corequisite: MUS 253 and 255A or 255B or 235 or 256; Course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of four hours.

**MUS 249. The Musician's Health. (2 Credits)**

I. Development of lifelong strategies to sustain healthy and successful careers in music, protect musicians from short-term and long-term injury, and promote positive performance practices. Open to music majors only.

**MUS 250. Small Ensembles:\_\_\_\_. (.5 Credits)**

I, II. Rehearsal and performance for: string, brass, percussion, vocal, and woodwind ensembles. Course may be retaken.

**MUS 251A. Trombone Methods. (0.5 Credits)**

Prerequisite: Music majors only. Slide positions, care of trombone, tone production, and tuning. Group instruction to prepare for teaching trombone in band or orchestra. Examination of trombone materials suitable for beginning instrumental programs.

**MUS 251B. Tuba/Baritone Methods. (0.5 Credits)**

Prerequisite: Music majors only. Fingering, care of tube/baritone, tone production, and tuning. Group instruction to prepare for teaching tuba/baritone in band or orchestra. Examination of tuba/baritone materials suitable for beginning instrumental programs.

**MUS 252A. Horn Methods. (0.5 Credits)**

Prerequisite: MUS 251A or MUS 251B. Fingering, care of horn, tone production, and tuning. Group instruction to prepare for teaching horn in band or orchestra. Examination of horn materials suitable for beginning instrumental programs.

**MUS 252B. Trumpet Methods. (0.5 Credits)**

II. Prerequisite: MUS 251A or MUS 251B. Fingering, care of trumpet, tone production, and tuning. Group instruction to prepare for teaching trumpet in band or orchestra. Examination of trumpet materials suitable for beginning instrumental programs.

**MUS 253. Percussion Ensemble. (1 Credit)**

I, II. Rehearsal and performance of standard Percussion Ensemble literature including steel drums, African studies, and marimba ensemble literature. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 254. Jazz Ensemble. (1 Credit)**

I, II. Rehearsal and performance of standard Jazz Ensemble literature including jazz improvisation, jazz styles, and form. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 255A. Symphonic Band. (1 Credit)**

I, II. Course open by audition only. Rehearsal and performance of standard band literature. May be retaken to a maximum of four hours.

**MUS 255B. Concert Band. (1 Credit)**

II. Course open to all students with prior experience in wind and percussion instruments. Rehearsal and performance of standard band literature. May be retaken to a maximum of four hours. Departmental approval required for 0 credit section.

**MUS 256. Marching Band. (1 Credit)**

I. Preparation and performances of marching band shows during the football season. Three or more rehearsals per week. May be retaken to a maximum of four hours.

**MUS 257. Guitar Ensemble. (1 Credit)**

I, II. Course open to guitar majors only. Must have experience reading music and performance skills on the instrument. May be retaken for a total of four hours.

**MUS 258. Bass Choir. (1 Credit)**

(1) I, II. Course open to students with prior experience in wind and percussion instruments, by audition only. Rehearsal and performance of standard brass choir literature. May be retaken to a maximum of 4 hours.

**MUS 261. Musicianship IV. (1 Credit)**

I. Prerequisite: MUS 162 (C), corequisite MUS 281. Skills and strategies for the perception, identification and performance of the basic materials of music. Further study of more difficult, harmonic, melodic and rhythmic materials from the Baroque and Classic periods.

**MUS 262. Musicianship IV. (1 Credit)**

II. Prerequisite: MUS 261, co-requisite MUS 282. Skills and strategies for the perception, identification and performance of the materials of music. Further study of more difficult, harmonic, melodic and rhythmic materials from the Romantic and Modern periods.

**MUS 281. Intermediate Theory III. (3 Credits)**

I. Prerequisite: minimum grade of "C" in MUS 182, corequisite: MUS 261. Continuation of MUS 182. Integrated skills further developed through the study of more difficult, longer structures from the Baroque and Classic periods.

**MUS 282. Intermediate Theory IV. (3 Credits)**

II. Prerequisite: MUS 281, corequisite: MUS 262. Continuation of MUS 281. Integrated skills further developed through the study of more difficult structures from the Romantic and Modern periods.

**MUS 283. Beginning Composition. (1 Credit)**

A. Prerequisite: instructor approval. Guidance in the exploration and development of compositional techniques relevant to the student's stylistic direction. Correct notation and major stylistic analysis stressed. May be retaken to a maximum of four hours provided the subject matter is different each time.

**MUS 285. Jazz Improvisation. (2 Credits)**

II. Prerequisite: MUS 118 or instructor approval. Develop skills for improvising in contemporary jazz idioms.

**MUS 290. Film Scoring. (2 Credits)**

II. Prerequisite: MUS 190, 191 or departmental approval. This course gives students important and practical knowledge, tools, and approaches to writing music in the profession. Will also cover topics in Midi, sequencing, Finale, Sibelius, and hard disk recording applications.

**MUS 292. Fundamentals in Audio Production. (2 Credits)**

A. Prerequisite: MUS 192. Understanding of the physics of sound, fundamentals of sound design, microphone usage, and digital audio recording technology.

**MUS 300. Music Industry Careers & Internship Seminar. (0 Credits)**

I,II. Prerequisite: junior standing in music or departmental approval. Required for all Music Industry students who have earned at least 60 hours. Credit will be given when students have attended and/or completed department-sponsored activities regarding professional skills and internships and careers.

**MUS 310. Topics in Music:\_\_\_\_. (1-3 Credits)**

Selected topics in music, music technology, or applied musical skills. May be retaken to a maximum of 6 hours if topic is different.

**MUS 312. Piano III. (1-4 Credits)**

I, II. Prerequisite: MUS 212 and completion of the sophomore comprehensive in music. Corequisite: MUS 425 or 426; course open to music majors only, One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 313. Accompanying. (1 Credit)**

I, II. Prerequisite: keyboard coordinator approval. Keyboard students may substitute MUS 313 for ensembles requirements. Additional accompanying hours assigned. May be retaken to a maximum of four hours.

**MUS 317. Applied Music Theory V. (3 Credits)**

I. Prerequisite: MUS 218 with a minimum grade of "C". Advanced study of musical organization and techniques through score analysis, research, and aural perception.

**MUS 320. Class Voice Methods. (1 Credit)**

II. Basic vocal techniques with emphasis on developing the voice for solo and/or choral performance.

**MUS 322. Voice III. (1-4 Credits)**

I, II. Prerequisite: MUS 222 and completion of the sophomore comprehensive in music. Corequisite: MUS 425 or 426; course open to music majors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 327. Opera Workshop. (1 Credit)**

I, II. Prerequisite: instructor approval. Preparation and presentation of opera scenes and complete works. All phases of performance and technical procedures of staging, costumes, and management. Course may be retaken.

**MUS 330. String Instruments Methods II. (1 Credit)**

II. Prerequisite: MUS 230. Continuation of MUS 230.

**MUS 332A. Violin III. (1-4 Credits)**

I, II. Prerequisite: MUS 232a and completion of the sophomore comprehensive in music. Co-requisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction in violin. May be retaken to maximum of eight hours.

**MUS 332B. Viola III. (1-4 Credits)**

I, II. Prerequisite: MUS 232b and completion of the sophomore comprehensive in music. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction in viola. May be retaken to a maximum of eight hours.

**MUS 332C. Cello III. (1-4 Credits)**

I, II. Prerequisite: MUS 232c and completion of the sophomore comprehensive in music. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction in cello. May be retaken to a maximum of eight hours.

**MUS 332D. String Bass III. (1-4 Credits)**

I, II. Prerequisite: MUS 232d and completion of the sophomore comprehensive in music. Corequisite: MUS 435 or 436 or 455a; course open to music majors only. One or two lessons per week. Instruction in string bass. May be retaken to a maximum of eight hours.

**MUS 332F. Guitar III. (1-4 Credits)**

I, II. Prerequisite: MUS 232f and completion of the sophomore comprehensive in music. Corequisite: MUS 457; course open to music majors only. One or two lessons per week. Instruction in guitar. May be retaken to a maximum of eight hours.

**MUS 345A. Trumpet III. (1-4 Credits)**

I, II. Prerequisite: MUS 245a and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in trumpet. May be retaken to a maximum of eight hours.

**MUS 345B. French Horn III. (1-4 Credits)**

I, II. Prerequisite: MUS 245b and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in French horn. May be retaken to a maximum of eight hours.

**MUS 345C. Euphonium III. (1-4 Credits)**

I, II. Prerequisite: MUS 245c and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in euphonium. May be retaken to a maximum of eight hours.

**MUS 345D. Trombone III. (1-4 Credits)**

I, II. Prerequisite: MUS 245d and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in trombone. May be retaken to a maximum of eight hours.

**MUS 345E. Tuba III. (1-4 Credits)**

I, II. Prerequisite: MUS 245e and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in tuba. May be retaken to a maximum of eight hours.

**MUS 346A. Flute III. (1-4 Credits)**

I, II. Prerequisite: MUS 246a and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in flute. May be retaken to a maximum of eight hours.

**MUS 346B. Oboe III. (1-4 Credits)**

I, II. Prerequisite: MUS 246b and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in oboe. May be retaken to a maximum of eight hours.

**MUS 346C. Clarinet III. (1-4 Credits)**

I, II. Prerequisite: MUS 246c and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in clarinet. May be retaken to maximum of eight hours.

**MUS 346D. Bassoon III. (1-4 Credits)**

I, II. Prerequisite: MUS 246d and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in bassoon. May be retaken to a maximum of eight hours.

**MUS 346E. Saxophone III. (1-4 Credits)**

I, II. Prerequisite: MUS 246e and completion of the sophomore comprehensive in music. Corequisite: MUS 250 and 455A or 455B or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in saxophone. May be retaken to a maximum of eight hours.

**MUS 347. Percussion III. (1-4 Credits)**

I, II. Prerequisite: MUS 247 and completion of the sophomore comprehensive in music. Corequisite: MUS 253 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 349. Applied Learning in Music. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**MUS 349A. Cooperative Study: Music. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**MUS 349B. Cooperative Study: Music. (0.5-8 Credits)**

Work in placements related to academic studies.

**MUS 349C. Cooperative Study: Music. (0.5-8 Credits)**

Work in placements related to academic studies.

**MUS 349D. Cooperative Study: Music. (0.5-8 Credits)**

Work in placements related to academic studies.

**MUS 351A. Clarinet Methods. (0.5 Credits)**

Prerequisite: Admission to Teacher Education. Fingering, care of instruments, tone production, and tuning. Group instruction to prepare for teaching the clarinet in band orchestra. Examination of clarinet materials suitable for beginning instrumental programs.

**MUS 351B. Flute Methods. (0.5 Credits)**

Prerequisite: Admission to Teacher Education. Fingering, care of the flute, tone production, and tuning. Group instruction to prepare for teaching the flute in band or orchestra. Examination of flute materials suitable for beginning instrumental programs.

**MUS 352A. Saxophone Methods. (0.5 Credits)**

II. Prerequisite: MUS 351A or MUS 351B. Fingerings, care of the saxophone, tone production, and tuning. Group instruction to prepare for teaching saxophone in band. Examination of saxophone materials suitable for beginning instrumental programs.

**MUS 352B. Oboe/Bassoon Methods. (0.5 Credits)**

II. Prerequisite: MUS 351A or MUS 351B. Fingerings, care of oboe/bassoon, tone production, and tuning. Group instruction to prepare for teaching oboe/bassoon in band or orchestra. Examination of oboe/bassoon materials suitable for beginning instrumental programs.

**MUS 354. Percussion Teaching Techniques. (1 Credit)**

II. Prerequisite: MUS 215 or 216. Snare drumming, rudiments, teaching techniques. Experiences on all related percussion instruments: bass drum, tympani, and others. Some experiences with mallet instruments; marimba, xylophone, bells, and others.

**MUS 364. Principles of C & I in Music. (1 Credit)**

I. Co-requisite: MUS 366 and CED 300. Principles of curriculum and instructional design for the music classroom. Demonstration and application of standards-based learning and curricular alignment within a music setting.

**MUS 365. Error Detection. (1 Credit)**

I. Prerequisite: MUS 366. Practical experience in performing and conducting instrumental and choral music literature appropriate for use in school situation, including application of identifying and correcting performance errors.

**MUS 366. Basic Conducting Pedagogy. (2 Credits)**

I. Prerequisite: junior standing in music or instructor approval. Basic techniques of conducting.

**MUS 367. Instrumental Conducting. (2 Credits)**

II. Prerequisite: MUS 366. Instrumental conducting techniques and their application in rehearsal and performance.

**MUS 368. Choral Conducting. (2 Credits)**

II. Prerequisite: MUS 366. Choral conducting techniques and their application in rehearsal and performance.

**MUS 369. Intermediate Conducting. (2 Credits)**

II. Prerequisite: MUS 366. Development of artistry expressed through physical movement. Specific topics include aesthetics as they apply to conducting, enhanced musicianship and interpretation, ensemble leadership, movement principles, gestural development, transposition/clef reading, aural training, and score study.

**MUS 373. Stylistic Composition. (2 Credits)**

I. Prerequisite: MUS 218 (with a grade of C or better) or departmental approval. A study of musical styles from the Baroque to the Romantic, including analysis of representative literature and stylistic composition assignments.

**MUS 383. Orchestration. (3 Credits)**

I. Prerequisite: Music majors only, MUS 182 and junior standing. Survey of ranges, timbers, and characteristics of orchestra and band instruments. Scoring for wind ensemble and full orchestra.

**MUS 384. Survey of Music Technology. (2 Credits)**

I, II. Prerequisite: MUS 182 and junior standing in Music. Survey of music technology, including sound reinforcement, MIDI sequencing, DAW software, music specific web design notation software, and the history of music technology.

**MUS 390. Music Industry III. (3 Credits)**

I. Prerequisite: MUS 191 or departmental approval. Continuation of MUS 190 including marketing, promotion, advertising, and starting a business. A project reflecting course study is required.

**MUS 391. Music Industry IV. (3 Credits)**

II. Prerequisite: MUS 390 or departmental approval. Continuation of MUS 390 including non-profit organizations, grants, contacts and website creation. A project reflecting course study is required.

**MUS 392. Microphone Placement Techniques. (2 Credits)**

A. Prerequisites: MUS 292 and Junior standing in Music. The study and understanding of microphone construction, usage, and placement techniques.

**MUS 399. Joint Recital. (1 Credit)**

I, II. Prerequisite: junior standing in music. A half recital shared with another student.

**MUS 412. Piano IV. (1-4 Credits)**

I, II. Prerequisite: MUS 312. Corequisite: MUS 425 or 426 or 513; course open to music majors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 422. Voice IV. (1-4 Credits)**

I, II. Prerequisite: MUS 322. Corequisite: MUS 425 or 426; course open to music majors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 424. Chamber Singers. (1 Credit)**

(1) Prerequisite: MUS 224. Highly select small ensemble dedicated to the highest standards of preparation and performance of choral literature from all style periods. Membership is by audition only. Course may be retaken.

**MUS 425. Concert Choir. (1 Credit)**

I, II. Prerequisite: MUS 225. Large mixed chorus open to all singers. This choir places an emphasis on developing sight reading and performance skills while providing a challenging and satisfying musical experience. Course may be retaken.

**MUS 426. University Singers (SATB). (1 Credit)**

I, II. Prerequisite: MUS 226. Advanced choral ensemble of mixed voices open by audition only. Rehearsal and performance of choral repertoire from various styles and eras. Presents several major concerts throughout the year on and off campus. Course may be retaken.

**MUS 428A. EnChor (SSAA Choir). (1 Credit)**

I, II. Prerequisite: MUS 228A. Choral ensemble of soprano/mezzo/alto voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Repeatable maximum number of hours: 4.

**MUS 428B. Koros (TTBB Choir). (1 Credit)**

I, II. Prerequisite: MUS 228B. Choral ensemble of tenor/baritone/bass voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Repeatable maximum number of hours: 4.

**MUS 432A. Violin IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332a. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction available in violin. May be retaken to a maximum of eight hours.

**MUS 432B. Viola IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332b. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction available in viola. May be retaken to a maximum of eight hours.

**MUS 432C. 'Cello IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332c. Corequisite: MUS 435 or 436; course open to music majors only. One or two lessons per week. Instruction available in violin `cello. May be retaken to a maximum of eight hours.

**MUS 432D. String Bass IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332d. Corequisite: MUS 435 or 436 or 455a; course open to music majors only. One or two lessons per week. Instruction available in string bass. May be retaken to a maximum of eight hours.

**MUS 432F. Guitar IV. (1-4 Credits)**

I, II. Prerequisite: MUS 332f. Corequisite: MUS 457; course open to music majors only. One or two lessons per week. Instruction available in guitar. May be retaken to a maximum of eight hours.

**MUS 435. Symphony Orchestra. (1 Credit)**

I, II. Prerequisite: MUS 235. Rehearsal and performance of orchestra literature from all style periods. Concerts given both on and off campus. Course open by audition only. May be retaken.

**MUS 436. String Orchestra. (1 Credit)**

I, II. Rehearsal and performance of string orchestra literature from all style periods. Concerts given both on and off campus. Two or more hours of rehearsal per week. Course open by audition only. May be retaken.

**MUS 445A. Trumpet IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345a. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in trumpet. May be retaken to a maximum of eight hours.

**MUS 445B. French Horn IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345b. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in French horn. May be retaken to a maximum of eight hours.

**MUS 445C. Euphonium IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345c. Corequisite: MUS 250 and 455a or 455b or 256; course open to music majors only. One or two lessons per week. Instruction available in baritone horn. May be retaken to a maximum of eight hours.

**MUS 445D. Trombone IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345d. Corequisite: MUS 250 and 256 or 455a or 455b or 435; course open to music majors only. One or two lessons per week. Instruction available in trombone. May be retaken to a maximum of eight hours.

**MUS 445E. Tuba IV. (1-4 Credits)**

I, II. Prerequisite: MUS 345e. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in tuba. May be retaken to a maximum of eight hours.

**MUS 446A. Flute IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346a. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in flute. May be retaken to a maximum of eight hours.

**MUS 446B. Oboe IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346b. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in oboe. May be retaken to a maximum of eight hours.

**MUS 446C. Clarinet IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346c. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. Instruction available in clarinet. May be retaken to a maximum of eight hours.

**MUS 446D. Bassoon IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346d. Corequisite: MUS 250 and 455A or 455B or 435 or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in bassoon. May be retaken to a maximum of eight hours.

**MUS 446E. Saxophone IV. (1-4 Credits)**

I, II. Prerequisite: MUS 346e. Corequisite: MUS 250 and 455A or 455B or 256; course open to music majors and minors only. One or two lessons per week. Instruction available in saxophone. May be retaken to a maximum of eight hours.

**MUS 447. Percussion IV. (1-4 Credits)**

I, II. Prerequisite: MUS 347. Corequisite: MUS 253 and 455A or 455B or 435 or 256; course open to music majors or minors only. One or two lessons per week. May be retaken to a maximum of eight hours.

**MUS 449. Music Industry Senior Capstone. (1 Credit)**

(1) I, II. Prerequisite: MUS 300 and departmental approval. Music Industry and Recording Arts students will apply knowledge and skills to the student run record label. May be retaken for a maximum of two hours.

**MUS 451. Piano Teaching Repertoire. (1 Credit)**

Prerequisites: MUS212 and major in music. Explores the teaching repertoire of elementary and intermediate piano students.

**MUS 452. Vocal Teaching Repertoire. (1 Credit)**

I. Prerequisite: MUS 222 and major in music. Explores the teaching repertoire for beginning to intermediate voice students.

**MUS 453. Percussion Ensemble. (1 Credit)**

I, II. Rehearsal and performance of standard Percussion Ensemble literature including steel drums, African studies, and marimba ensemble literature. By audition only. May be retaken.

**MUS 454. Jazz Ensemble. (1 Credit)**

I, II. Rehearsal and performance of standard Jazz Ensemble literature including jazz improvisation, jazz styles, and forms. By audition only. May be retaken.

**MUS 455A. Symphonic Band. (1 Credit)**

I, II. Prerequisite: MUS 255A. By audition only. Rehearsal and performance of standard band literature. May be retaken. Departmental approval required for 0 credit section.

**MUS 455B. Concert Band. (1 Credit)**

II. Prerequisite: MUS 255B. Course open to all students with prior experience in wind and percussion instruments. Rehearsal and performance of standard band literature. May be retaken. Departmental approval required for 0 credit section.

**MUS 457. Guitar Ensemble. (1 Credit)**

I, II. Prerequisite: MUS 257. Course open to guitar majors only. Must have experience reading music and performance skills on the instrument. May be retaken.

**MUS 458. Brass Choir. (1 Credit)**

(0-1) I, II. Prerequisite: MUS 258. Course open to students with prior experience in wind and percussion instruments, by audition only. Rehearsal and performance of standard brass choir literature. May be retaken. Departmental approval required for 0 credit section.

**MUS 480. Form and Analysis. (3 Credits)**

I. Prerequisites: MUS 281 and junior standing in music. In-depth study of the materials of form from the motive through large structures.

**MUS 481. Tonal Counterpoint. (3 Credits)**

A. Prerequisite: MUS 281 or equivalent. A study of contrapuntal music from the 18th century, including analysis of representative literature and stylistic composition assignments.

**MUS 482. Music Since 1900. (2 Credits)**

II. Prerequisite: Junior standing. Corequisites and/or prerequisites: MUS 218 and MUH 276W. A study of the compositional devices relevant to music since 1900, and a study of specific representative literature of significant composers.

**MUS 483. Composition. (2 Credits)**

A. Prerequisite: MUS 282 and 283; or departmental approval. Individual guidance in the exploration and development of compositional techniques relevant to the student's stylistic direction. May be retaken to a maximum of eight hours, provided the subject matter is different.

**MUS 484. Digital Music. (2 Credits)**

I. Prerequisite: MUS 218 or equivalent with a grade of C or better. Advanced instruction in the concepts, software and techniques related to creating music for digital media.

**MUS 492. Advanced Mixing. (2 Credits)**

A. Prerequisite: MUS 392 and senior standing. Covers concepts and techniques involved in mixing audio for commercial productions. Become familiar with terminology and concepts specific to recording studios and sound reinforcement.

**MUS 499. Senior Project/Recital. (1,2 Credits)**

I, II. Prerequisite: MUS 399. A full performance recital or a theory and composition project consisting of a theory project and recital of student's own compositions.

**MUS 501. Music Leadership. (2 Credits)**

(2) II. Prerequisite: MUH 276W or instructor approval. Development of music leadership skills for the 21st century. Leadership styles, digital marketing, grant writing, and policy development will be addressed. Credit will not be awarded for both MUS 501 and 701.

**MUS 510. Special Topics in Music:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: MUS 480 or equivalent, or departmental approval. Advanced topics in music. May be retaken to a maximum of six hours, provided the topics are different.

**MUS 510S. Special Topics in Music:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: MUS 480 or departmental approval. Advanced topics in music that incorporates a service learning component. May be retaken to a maximum of six hours, provided the topics are different. Credit will not be awarded for both MUS 510 and 510S.

**MUS 511. Jazz Theory. (2 Credits)**

(2) I. Prerequisite: MUS 218 or departmental approval. Study of musical concepts relating to the jazz idiom. Credit will not be awarded for both MUS 511 and 711.

**MUS 512. Piano V. (1-4 Credits)**

I, II. May not be taken for credit by piano majors.

**MUS 513. Techniques of Accompanying. (1 Credit)**

I, II. Practical training in the tradition, interpretation, and execution of accompaniments. May be retaken to a maximum of two hours.

**MUS 516. Studio Management. (1 Credit)**

(1) II. Pre-requisite: departmental approval. This course explores business practices and administrative duties of managing an applied music studio. Credit will not be awarded for students who have credit for MUS 716, 816.

**MUS 517. Arranging. (2 Credits)**

(2) A. Prerequisite: MUS 218 with a minimum grade of "C". A study of the practical skills and fundamental knowledge needed to arrange music for instruments and/or voices in various ensemble configurations. Credit will not be awarded for both MUS 517 and 717.

**MUS 519. Performance Temperament. (2 Credits)**

(2). A. Prerequisite: MUS 218. Condition students for optimal public performance. Strategies for artful and effective practicing/preparation, maintaining motivation, as well as confronting performance anxieties and achieving peak performance. Credit will not be awarded for both MUS 519 and 719.

**MUS 520. Advanced Diction for Singers. (1 Credit)**

A. Prerequisite: MUS 220. For voice and choral conducting students. Enunciation and projection; accurate pronunciation in German and French. Phonetics and the International Phonetic Alphabet.

**MUS 522. Voice V. (1-4 Credits)**

I, II. May not be taken for credit by voice majors.

**MUS 542. Organ V. (1-4 Credits)**

I, II. May not be taken for credit by voice majors.

**MUS 549. Career Development. (2 Credits)**

(2). I. Prerequisite: MUH 276W or instructor approval. Development of the professional skills necessary for a sustainable career in music. Self-marketing, business and finance, networking, and interviewing topics will be explored. Creation of professional documents needed for personal promotion in the industry. Credit will not be awarded for both MUS 549 and 749.

**MUS 550. Teaching Techniques. (1 Credit)**

A. Prerequisite: MUS 399. Analysis of current teaching methods and materials with the intention of developing sound teaching procedures. May include observation and performance. Topics in woodwinds, brass, percussion, strings, voice, piano, and organ. Credit will not be awarded for both MUS 550 and 750.

**MUS 551. Performance Literature. (1 Credit)**

A. Prerequisite: MUS 399. Literature for various performing media relative to performance practices and problems. Topics in woodwinds, brass, percussion, strings, voice, piano, and organ. Credit will not be awarded for both MUS 551 and 751.

**MUS 555. Symphonic Music Literature. (3 Credits)**

I. Prerequisites: MUH 371, 372 and music majors only. Evolution of the symphony from its beginning to the 20th century with emphasis on score reading and listening.

**MUS 556. Choral Music Literature. (2 Credits)**

II. Prerequisites: MUH 275 Survey of choral music literature from the 15th century to the present.

**MUS 557. Symphonic and Wind Band Literature. (2 Credits)**

(2). I. Evolution of instrumental music from its beginning to modern day. Includes a detailed exploration of music and the many artistic, social, and cultural forces that helped to shape these genres. Credit will not be awarded for both MUS 557 and 757.

**MUS 586. Workshop in Instrumental Music. (1-4 Credits)**

A. Topics in band or orchestra procedures. May be retaken to a maximum of four hours.

**MUS 588. Pedagogy of Theory. (2 Credits)**

A. Prerequisite: MUS 399 and music majors only. Comparative study of theory systems with emphasis on presentation and illustrative exercises dealing with related theoretical problems.

**MUS 589. Workshop in Choral Music. (1-4 Credits)**

A. Techniques, literature, and materials pertinent to a particular area or areas of preparation and performance of choral music. Topics to be announced. May be retaken to a maximum of four hours.

**MUS 701. Music Leadership. (2 Credits)**

(2) II. Development of music leadership skills for the 21st century. Leadership styles, digital marketing, grant writing, and policy development will be addressed.

**MUS 710. Special Topics in Music:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: MUS 480 or equivalent, or departmental approval. Advanced topics in music. May be retaken to a maximum of six hours, provided the topics are different.

**MUS 710S. Special Topics in Music:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: Departmental approval. Advanced topics in music that incorporates a service learning component. May be retaken to a maximum of six hours, provided the topics are different. Credit will not be awarded for both MUS 710 and 710S.

**MUS 711. Jazz Theory. (2 Credits)**

(2) I. Study of musical concepts relating to the jazz idiom. Credit will not be awarded for both MUS 511 and 711.

**MUS 712. Piano V. (1-4 Credits)**

I, II. May not be taken for credit by piano majors.

**MUS 713. Techniques of Accompanying. (1 Credit)**

I, II. Practical training in the tradition, interpretation, and execution of accompaniments. May be retaken to a maximum of two hours.

**MUS 716. Studio Management. (1 Credit)**

(1) II. Pre-requisite: departmental approval. This course explores business practices and administrative duties of managing an applied music studio. Credit will not be awarded to students who have credit for MUS 516 and 816.

**MUS 717. Arranging. (2 Credits)**

(2) I. A study of the practical skills and fundamental knowledge needed to arrange music for instruments and/or voices in various ensemble configurations. Credit will not be awarded for both MUS 517 and 717.

**MUS 719. Performance Temperament. (2 Credits)**

(2). A. Condition students for optimal public performance. Strategies for artful and effective practicing/preparation, maintaining motivation, as well as confronting performance anxieties and achieving peak performance. Credit will not be awarded for both MUS 519 and 719.

**MUS 720. Advanced Diction for Singers. (1 Credit)**

A. Prerequisite: departmental approval. For voice, education, and choral conducting students. Enunciation and projection; accurate pronunciation in German and French. Phonetics and the International Phonetic Alphabet.

**MUS 722. Voice V. (1-4 Credits)**

I, II. May not be taken for credit by voice majors.

**MUS 742. Organ V. (1-4 Credits)**

I, II. May not be taken for credit by organ majors.

**MUS 749. Career Development in Music. (2 Credits)**

(2) Development of the professional skills necessary for a sustainable career in music. Selfmarketing, business and finance, networking, and interviewing topics will be explored. Creation of professional documents needed for personal promotion in the industry. Credit will not be awarded for both MUS 749 and 549.

**MUS 750. Teaching Techniques. (1 Credit)**

A. Analysis of current teaching methods and materials with the intention of developing sound teaching procedures. May include observation and performance. Topics in woodwinds, brass, percussion, strings, voice, piano, and organ. Credit will not be awarded for both MUS 550 and 750.

**MUS 751. Performance Literature. (1 Credit)**

A. Literature for various performing media relative to performance practices and problems. Topics in woodwinds, brass, percussion, strings, voice, piano and organ. Credit will not be awarded for both MUS 551 and 751.

**MUS 755. Symphonic Music Literature. (3 Credits)**

II. Prerequisite: MUS 371 and 372. Evolution of the symphony from its beginning to the 20th century with emphasis on score reading and listening.

**MUS 756. Choral Music Literature. (2 Credits)**

II. Survey of choral music literature from the 15th century to the present.

**MUS 757. Symphonic and Wind Band Litera. (2 Credits)**

(2).I. Evolution of instrumental music from its beginning to modern day. Includes a detailed exploration of music and the many artistic, social, and cultural forces that helped to shape these genres.

**MUS 786. Workshop in Instrumental Music. (1-4 Credits)**

A. Topics in band or orchestra procedures. May be retaken to a maximum of four hours.

**MUS 788. Pedagogy of Theory. (2 Credits)**

A. Comparative study of theory systems with emphasis on presentation and illustrative exercises dealing with related theoretical problems.

**MUS 789. Workshop in Choral Music. (1-4 Credits)**

A. Techniques, literature, and materials pertinent to a particular area or areas of preparation and performance of choral music. Topics to be announced. May be retaken to a maximum of four hours.

**MUS 802. Assessment in Music. (2 Credits)**

(2). A. Principles and procedures in assessing musical skills, attitudes, aptitudes, and understandings. Topics include assessment development and analysis, addressing the scope of psychomotor, cognitive, and affective domains related to music education.

**MUS 803. Learning & Behavi Mod in Music. (2 Credits)**

(2). II. Methods and techniques of teaching and behavior modification specific to music ensemble and classroom settings. Topics include social and academic behavior, and the application of research-based techniques to lesson planning, and student assessment.

**MUS 805. Chamber Music. (0.5 Credits)**

A. May be retaken to a maximum of one hour.

**MUS 812. Piano. (1-5 Credits)**

I, II. Prerequisite: MUS 412. Four years or equivalent, as demonstrated by the student's proficiency in piano. May be retaken.

**MUS 822. Voice. (1-5 Credits)**

I, II. Prerequisite: MUS 422. Four years or equivalent, as demonstrated by the student's proficiency in voice. May be retaken.

**MUS 824. Chamber Singers. (1 Credit)**

Highly select small ensemble dedicated to the highest standards of preparation and choral literature from all style periods. Membership is by audition only. May be retaken to a maximum of four credits.

**MUS 825. Concert Choir. (1 Credit)**

Large mixed chorus open to all singers. This choir places and emphasis on developing sight reading and performance skills while providing a challenging and satisfying musical experience. Course may be retaken.

**MUS 826. University Singers. (1 Credit)**

I, II. Advanced choral ensemble of mixed voices open by audition only. Rehearsal and performance of choral repertoire from various styles and eras. Presents several major concerts throughout the year on and off campus. Course may be retaken.

**MUS 827. Opera Workshop. (1 Credit)****MUS 828A. EnChor (SSAA Choir). (1 Credit)**

(0-1) I, II. Choral ensemble of soprano/mezzo/alto voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Course may be retaken.

**MUS 828B. Koros (TTBB Choir). (1 Credit)**

(0-1) I, II. Choral ensemble of tenor/baritone/bass voices open to all students. Rehearsal and performance of choral repertoire from various styles and eras. Course may be retaken.

**MUS 832. String Instruments. (1-5 Credits)**

I, II. Four years or equivalent as demonstrated by the student's proficiency on string instruments. Graduate applied instruction in violin, viola, violoncello, string bass, viola da gamba or guitar. May be retaken.

**MUS 835. Orchestra. (1 Credit)**

I, II. May be retaken to a maximum of two hours.

**MUS 842. Organ. (1-5 Credits)**

I, II. Prerequisite: MUS 442. Four years or equivalent, as demonstrated by the student's proficiency on organ. May be retaken.

**MUS 844. Applied Conducting. (1 Credit)**

(1) A. Exploration and enhancement of all elements of the conductor's being, in conjunction with exploring conducting pedagogy and skills, leadership, score study, and one's own awareness of their self-projection in front of an ensemble.

**MUS 845. Brass Instruments. (1-5 Credits)**

I, II. Prerequisite: MUS 445. Four years or equivalent, as demonstrated by the student's proficiency on brass instruments. Graduate applied instruction in cornet and trumpet, French horn, baritone horn, trombone, or tuba. May be retaken.

**MUS 846. Woodwind Instruments. (1-5 Credits)**

I, II. Prerequisite: MUS 446. Four years or equivalent, as demonstrated by the student's proficiency on woodwind instruments. Graduate applied instruction in flute, oboe, clarinet, bassoon, or saxophone. May be retaken.

**MUS 847. Percussion. (1-5 Credits)**

I, II. Prerequisite: MUS 447 or equivalent, as demonstrated by the student's proficiency in percussion. May be retaken.

**MUS 850. Small ensembles. (0.5 Credits)**

I, II. May be retaken to a maximum of one hour.

**MUS 851. Advanced Woodwind Techniques. (3 Credits)**

A. Prerequisites: MUS 351 and 352 or instructor approval. Techniques, literature and pedagogical approaches to teaching woodwind instruments in public schools.

**MUS 854. Jazz Ensemble. (1 Credit)**

(0-1) I,II. Rehearsal and performance of standard Jazz Ensemble literature including jazz improvisation, jazz styles, and form. Course open by audition only. May be retaken to a maximum of four hours.

**MUS 855. Band. (1 Credit)**

I, II. May be retaken to a maximum of two hours.

**MUS 873. Music in Society. (3 Credits)**

(3) II. A survey of the roles that music and musicians have had in societies, from past to present. The social and cultural foundations of music will be explored, including the production, content, and consumption of music.

**MUS 878. Foundations of Music. (3 Credits)**

A. Historical and philosophical foundations of music and music pedagogy. Diverse trends are compared with emphasis on materials and personal development in music for the general music specialist.

**MUS 881. Seminar in Choral Conducting. (1 Credit)**

I. The study of non-gestural issues in the field of choral conducting, including auditions, choral tone, programming, recruiting, standing formations, touring, voicing, and warm-ups.

**MUS 882. Seminar in Instrume Conducting. (1 Credit)**

II. The study of gestural and non-gestural issues in the field of instrumental conducting, including auditions, instrument and ensemble color, performance practice, rehearsal techniques, ensemble set-up, warm-ups, and other special topics.

**MUS 883. Sem:Choral/Instrum Conducting. (2 Credits)**

A. Techniques in the preparation, conducting, and performance of choral/instrumental music. Survey of high school and college choral or instrumental literature.

**MUS 885. Psychology of Music. (3 Credits)**

A. Reactions to musical stimuli; musical aptitude and achievement; application of psychological theories to musical learning.

**MUS 887. Analytical Techniques I. (3 Credits)**

A. Prerequisite: MUS 884 or equivalent. Significant forms, procedures, and compositional devices relevant to the major stylistic periods from the Renaissance to the Contemporary.

**MUS 889. Advanced Composition I. (2 Credits)**

A. Prerequisite: MUS 483 or equivalent, or departmental approval. Individual guidance in the exploration of advanced compositional techniques with emphasis on larger forms, May be retaken to a maximum of four hours.

**MUS 896. Spec Proj in Comp, Pedagogy. (1-3 Credits)**

I, II. Requirement for the Master of Music in composition, pedagogy, music education, pedagogy, choral conducting and instrumental conducting. May be elected by other Master of Music concentrations. May be fulfilled by composition, analytical paper, or conducting recital. May be retaken to a maximum of three credit hours.

**MUS 897. Graduate Recital. (2,3 Credits)****MUS 898. Research in Mus & Mus Educ. (3 Credits)**

A. Research techniques appropriate to music and music education; principles of research design; organization of the research report; analysis of representative research.

**MUS 899. Thesis. (1-3 Credits)**

I, II. May be retaken to a maximum of three credit hours.

## MUT Music Theatre (MUT)

**MUT 135. Voice and Movement for the Actor. (3 Credits)**

A. Exploration of voice and movement as the basic tools of performance. Students will gain awareness of their own habits and develop their capacities for clear and expressive vocal and physical communication. The development of character-specific physicalization and vocal production.

**MUT 250. Musical Theatre Ensemble. (1 Credit)**

I, II. Rehearsal and performance for: musical theatre performance, dance ensemble, or orchestra ensembles. Outside rehearsals, performances, and all technical rehearsal are required. Repeatable maximum number of hours: 8.

**MUT 280. Acting for Musical Theatre. (3 Credits)**

A. Formerly THE 280. Prerequisite: THE 135 or MUT 135. Study of Musical Theatre as an art form, and an examination of the acting process and how it applies to the musical genre; performance work is included. Credit will not be awarded for both THE 280 and MUT 280.

**MUT 285. Theatre Dance I. (2 Credits)**

I, II. A beginning course in movement and dance for the stage. Expands the capacity for non-verbal self-expression and dramatic imagination. Basic work in ballet, jazz and musical theatre styles will be introduced. Any combination of THE 285/MUT 285 may be retaken to a maximum of six hours.

**MUT 385. Theatre Dance II. (2 Credits)**

I, II. Prerequisite: THE 285 or instructor approval. Emphasis is placed on enhancing strength, coordination, and technique as movement skills develop. Ensemble work, and fundamentals in ballet, jazz, partnering and musical theatre styles will be included. Any combination of THE 385/MUT 385 may be retaken to a maximum of six hours. Insert: Formerly THE 385.

## NAT Natural Science (NAT)

**NAT 101H. Biology: The Science of Life. (3 Credits)**

This biological science course emphasizes man's relationship with the natural world by studying concepts and ecology, inheritance, evolution, and the functioning of living systems. The student must enroll in the one designated lab section as well.

**NAT 363. Ecology and Human Affairs. (3 Credits)**

A biological science course that develops the basic principles of ecology, and uses them as a basis for consideration of agriculture, land use, endangered species, and other environmental issues.

## NET Networking (NET)

**NET 302. PC Troubleshooting & Construction. (3 Credits)**

I, II. Prerequisite: TEC 161 or (INF 104 or higher) or (CSC 140 or higher) or (CIS 212 or higher). Construction, operation and troubleshooting microprocessors, system memory, computer architecture, video types, monitors, hard drives, mice, cabling, notebook computers and printers modern operating systems, and application programs. Building computer systems to specific requirements. 2 Lec/2 Lab.

**NET 303. LANs & PC Communications. (3 Credits)**

I, II. Formerly EET 303. Prerequisite: TEC 161 or (INF 104 or higher) or (CSC 140 or higher) or (CIS 212 or higher) and (a grade of at least "C" in MAT 095 or a minimum math ACT score of 18 or a minimum SAT math score of 490). Installing, configuring, managing, and troubleshooting network and computer systems communications hardware and software. 2 Lec/2 Lab.

**NET 343. Network Switches & Routers. (3 Credits)**

A. Formerly EET 343. Prerequisite: NET 303 or EET 303 or CIS 375. Cisco internetworking, switching, IOS, routing, VLAN's, access lists, and WAN protocols are covered in a combination of lecture, demonstration, and laboratory. 2 Lec/2 Lab.

**NET 344. Advanced Network Devices. (3 Credits)**

A. Prerequisite: NET 343. Configure and troubleshoot network-aware devices/objects in small- to mid-sized LANs. Principles of network device/object startup, configuration and management, VLAN, advanced network communications and security. 2 Lec/2 Lab.

**NET 349. Applied Learning in NET. (0.5-8 Credits)**

I, II. Prerequisite: departmental approval, Sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors.

**NET 349A. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at ECU. Minimum 80 hours work required per credit hour.

**NET 349B. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at ECU. Minimum 80 hours work required per credit hour.

**NET 349C. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349D. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349E. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349F. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349G. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349H. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349I. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349J. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349K. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349L. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349M. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 349N. Cooperative Study: CET/CEN. (0.5-8 Credits)**

I, II. Formerly EET 349 A-N. Prerequisite: departmental approval, sophomore (30-59 hours) or higher standing and minimum of 2.0 GPA. Work under faculty and field supervisors in placements related to academic studies. 1-8 credit hours semester. Transfer students must have completed at least 12 hours of coursework at EKU. Minimum 80 hours work required per credit hour.

**NET 354. Microcomputer & Network Security. (3 Credits)**

I, II. Formerly EET 354. Prerequisite: NET 303 or EET 303 or CIS 375. Security considerations in computer systems and networks using appropriate hardware and software. Topics include malware, encryption, VPNs, ACLs, firewalls, Wi-Fi, and secure protocols. Testing configuring, managing and troubleshooting security in network systems. 2 Lec/2 Lab.

**NET 367A. Exit Exam for AAS in Tech, with Computer Electronics. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration in NET 367A is required of all undergraduate A.A.S. students in the Technology program specializing in Computer Electronics program for the term in which they wish to take their comprehensive examination.

**NET 367B. Exit Exam for Minor in Computer Electronics Technology. (0 Credits)**

(0) A. Prerequisite: Consent of Advisor. Registration in NET 367B is required of all undergraduate students in the Minor for Computer Electronics Technology program for the term in which they wish to take their comprehensive examination.

**NET 385. Advanced Switches & Routers. (3 Credits)**

(3) A. Prerequisite: NET 343. Configure and troubleshoot small to mid-sized switched LANs. Principles of switch and router startup, configuration and management, VLAN, trunking, STP, advanced routing, WAN, scaling IP address space. Configure, apply and verify Access Control Lists. 2 Lec/2 Lab.

**NET 395. Special Topics in NET. (2-3 Credits)**

A. Formerly EET 395. Prerequisite: 30 credit hours or more completed, and (EET 252 or NET 303). Emerging technologies in the area of Network security and electronics (NET). May be retaken up to a maximum of 9 hours provided subject matter differs each time. Lec/Lab.

**NET 399. Associate Degree Capstone. (3 Credits)**

II. Formerly EET 399. Prerequisite: 30 credit hours or more completed, with a minimum of 9 semester hours of NET coursework completed, and a minimum of 6 semester hours of EET coursework completed. A project and research oriented course which serves as a capstone experience at the Associate Degree level. Design, implementation, analysis, and troubleshooting of electronic and computer technology related systems, and managing a technical.

**NET 403. Advanced LANSs and PC Communication. (3 Credits)**

A. Formerly EET 403. Prerequisite: NET 303 or EET 303 or CIS 375. This course will cover installation, configuration, troubleshooting and maintaining common server platforms. The participants will be given the opportunity to setup and manage network hardware, operating systems and applications. 2 Lec/2 Lab.

**NET 440. Wired/Wireless Communications. (3 Credits)**

A. Prerequisite: EET 257; MAT 112B or higher and PHY 101. Principles of communication over fiber and other wired/wireless media; digital and analog data transmission; modulation and multiplexing of data. Communication system components, safety, testing and troubleshooting. 2 Lec/2 Lab.

**NET 454. Wireless/WAN Security. (3 Credits)**

A. Prerequisites: (NET 303 or CIS 375) and NET 354. Security considerations in wireless and WANs. Wi-Fi, 802. 11x, WPA, RADIUS, encryption, VPNs, VLANs, AAA authentication, Network Security Appliances, and secure protocols. Laboratory based configuration and security testing of WAPs, appliances and servers. 2 Lec/2 Lab.

**NET 467. Exit Exam for BS in NET. (0 Credits)**

(0) A. Prerequisite: Consent to advisor. Registration in NET 467 is required of all undergraduate B.S. (NET) students for the term in which they wish to take their comprehensive examination, including the exit exam and advisor approved certification or license.

**NET 499. Senior Capstone. (3 Credits)**

II. Formerly EET 499. Prerequisite: 90 credit hours or more completed, with a minimum of 18 semester hours of NET coursework completed, and a minimum of 9 semester hours of EET coursework completed, and AEM 310W. A project and research oriented course which serves as a capstone experience at the Bachelor Degree level. Design, implementation, analysis, and troubleshooting of networking, computers and electronics technology related systems, and managing a technical project.

## NFA Nutrition/Foods/Foods Admn (NFA)

**NFA 121. Introduction to Food Composition and Preparation. (3 Credits)**

I, II. A beginning food science course which deals with food composition and the relationship of scientific processes and principles to food preparation. Lecture and laboratory experiences.

**NFA 201. Essentials of Nutrition. (3 Credits)**

I, II. A scientific study of the essential nutrients and their application in meeting nutritional needs of all ages. Consideration is given to food selection, nutrition misinformation, obesity, and other common dietary problems. Gen. Ed. VI. Fulfills University Wellness Requirement.

**NFA 203. Introduction to Food and Nutrition Careers. (1 Credit)**

A. A professional orientation course for future food and nutrition professionals describing pathways to management, community, and clinical careers in the field, including an overview of the relationships to healthcare, industry partners, and government food programs.

**NFA 301. Bio Nutrition. (3 Credits)**

A. Prerequisites: CHE 102 or 112/116; and NFA 201. Structures and chemical properties of CHO, PRO, fat and nucleic acids, vitamins, coenzymes, minerals, and water related to metabolic processes.

**NFA 303. Nutrition Education and Counseling. (3 Credits)**

(3) A. Pre-requisite: NFA 201. Discussion, practice, and application of nutrition-related education and counseling strategies and health behavior theories to develop communication and counseling skills for work with individuals and groups.

**NFA 310. Junior Seminar. (3 Credits)**

I. Prerequisite: Admission to General Dietetics Program. Preparation and planning for transition to internship, graduate school or professional work. Emphasis on professional roles and responsibilities, and ethical practice in dietetics.

**NFA 317. Nutrition in the Life Cycle. (3 Credits)**

I, II. Study of dietary needs adapted to periods of the life cycle.

**NFA 321. Meal Mangement. (3 Credits)**

A. Prerequisites: NFA 121 and 201. Food management, planning, preparation, and service of meals through management of time, energy, money, and efficient use of equipment. Consideration is given to nutritional needs, food habits, and social customs of family groups.

**NFA 323. Experimental Foods. (3 Credits)**

A. Prerequisites: NFA 121 and CHE 102 or equivalent. Advanced food science course concerning the study of the reactions and interactions of food components in complex food systems during preparation, processing, and preservation. Lecture and laboratory experiences.

**NFA 325. Quantity Food Production. (3 Credits)**

I. Prerequisite: NFA 121. Corequisite: NFA 326. Standards, principles, and techniques for managing throughout the functional subsystems of a food service setting; emphasis on quality, quantity, and cost controls.

**NFA 326. Field Experiences in Quantity Food Production. (3 Credits)**

I. Corequisite: NFA 325. Supervised field experience in the technical application of theory presented in NFA 325.

**NFA 328. Food Preparation and Culinary Arts. (3 Credits)**

II. Prerequisites: NFA 325 and 326 each with a grade of "C" or better. Culinary and baking techniques. Emphasis on professional plating and presentation of food. 1 Lec/4 Lab.

**NFA 344. Food Purchasing. (3 Credits)**

II. Prerequisites: NFA 325 and 326 or departmental approval. Principles and methods of purchasing foods and equipment for various types of food service establishments. Emphasis on specifications and factors affecting quality, and food product identification.

**NFA 349. Applied Learning in Nutrition, Foods, and Food Administration. (0.5-8 Credits)**

A. Prerequisite: instructor approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**NFA 349A. Cooperative Study: Nutrition, Foods, and Food Administration. (0.5-8 Credits)**

A. Prerequisite: instructor approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**NFA 349B. Cooperative Study: Nutrition, Foods, and Food Administration. (0.5-8 Credits)****NFA 349C. Cooperative Study: Nutrition, Foods, and Food Administration. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**NFA 401. Human Nutrition. (3 Credits)**

I. Prerequisites: NFA 301, BIO 307 with a minimum grade of B, and BIO 308. Study of the functions, requirements, and interrelations of macronutrients in normal nutrition; integration and regulation of energy metabolism and balance.

**NFA 402. Medical Nutrition Therapy. (3 Credits)**

I. Prerequisite or Corequisite: NFA 401. Analysis and application of nutrition assessment, documentation, and modified feeding practices including enteral and parenteral nutrition with application for therapeutic management of gastrointestinal disorders.

**NFA 403. Medical Nutrition Therapy II. (3 Credits)**

II. Prerequisite: NFA 402. Integration of nutrition therapy, pathophysiology, and biochemical alterations for assessment and management of trauma, diabetes, cancer, and cardiovascular, renal, hepatic, and pulmonary disorders.

**NFA 404. Human Nutrition II. (3 Credits)**

II. Prerequisite: NFA 401. Study of the functions, requirements, and interrelations of essential and non-essential micronutrients in normal nutrition and wellness.

**NFA 411. Community Nutrition. (3 Credits)**

A. Prerequisite: NFA 201 and 317. Survey of services, legislation, assessment, other relevant activities, and the role of nutritionists in various community settings. Development of educational resources for different populations. Field experience in community programs and settings to include individual and family nutrition counseling.

**NFA 412W. Research Application in Nutrition. (3 Credits)**

(3) I. Prerequisite: ENG 102 or 102R or 105(B) or HON 102 and STA 215 and admission to Food and Nutrition Dietetics Concentration; or departmental approval. Evaluation, interpretation, and application of professional and research literature in nutrition/dietetics; scientific writing (AMA format). Emphasis on making ethical, evidence-based practice decisions. Credit will not be awarded to students who have credit for NFA 412.

**NFA 415. Seminar in the Dietetics Prof.. (1-3 Credits)**

A. Prerequisites: NFA 401 and departmental approval. Current concepts and trends in dietetics and review of recent research. Topics include, but are not limited to, professional ethics, marketing, quality assurance and preparing for a dietetic internship.

**NFA 416. Special Problems in Nutrition. (1-3 Credits)**

A. Prerequisites: NFA 401 and departmental approval. The student chooses a problem and works under the supervision of an instructor. May be retaken to a maximum of six hours provided the topics vary. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**NFA 420. Food in Health and Wellness. (3 Credits)**

A. Prerequisites: NFA 121 and NFA 201 each with a grade of "C" or better. Application of evidence-based nutrition information for health promotion and condition management. Emphasis on menu development and modification for food service and culinary events to meet the nutritional needs and desires of consumers.

**NFA 445. Food Service Organization and Management. (3 Credits)**

A. Prerequisites: NFA 325, 326. Administrative functions within a food service system. Emphasis in top management responsibilities: financial and time management, quality assurance, legislation, labor unions, merchandising, networking, and human resource management.

**NFA 447. Food Culture and Systems. (3 Credits)**

A. Cross-cultural study of the formation of personal identities and social groups via food production, preparation, and consumption. In-depth exploration of global food systems and sustainability.

**NFA 499. Culinary Nutrition and Food Management Practicum. (3 Credits)**

A. Prerequisite: NFA 349, Food and Nutrition Majors only and Junior or Senior standing. Directed culinary nutrition and food management field experience. Minimum of 240 clock hours.

**NFA 505. Maternal and Infant Nutrition. (3 Credits)**

A. Prerequisite: NFA 317 or equivalent. Nutritional requirements prior to and during pregnancy, lactation, and infancy. Survey the effects of dietary toxicants, deficiency and excesses of nutrients. Field experience.

**NFA 507. Child and Adolescent Nutrition. (3 Credits)**

A. Prerequisite: NFA 201. Nutritional needs, problems, dietary habits, and motivations of the toddler through adolescent years. Field experience.

**NFA 509. Nutrition and Aging. (3 Credits)**

A. Prerequisite: NFA 201. The theories of causes of aging; nutritional requirements, dietary intakes and effects of nutrition on the rate of biological aging. Field experience.

**NFA 517. Sports Nutrition. (3 Credits)**

A. Prerequisite: NFA 201 or 500/700. Relationship of nutrition to optimal sports performance. Examines energy use during exercise metabolism, specific nutrient needs, nutritional strategies during training, conditions requiring special consideration, controversial and potentially dangerous nutritional practices of athletes.

**NFA 705. Maternal and Infant Nutrition. (3 Credits)**

A. Prerequisite: NFA 317 or equivalent. Nutritional requirements prior to and during pregnancy, lactation, and infancy. Survey the effects of dietary toxicants, deficiency, and excesses of nutrients. Field experience.

**NFA 707. Child & Adolescent Nutrition. (3 Credits)**

A. Prerequisite: NFA 201. Nutritional needs, problems, dietary habits, and motivations of the toddler through adolescent years. Field experience.

**NFA 709. Nutrition and Aging. (3 Credits)**

A. Prerequisite: NFA 201. The theories of causing aging; nutritional requirements; dietary intakes and effects of nutrition on the rate of biological aging. Field experience.

**NFA 717. Sports Nutrition. (3 Credits)**

A. Prerequisite: NFA 201 or NFA 500/700. Relationship of nutrition to optimal sports performance, needs, and nutritional strategies during training, conditions requiring special consideration, controversial and potentially dangerous nutritional practices of athletes.

**NFA 800. Nutrition Topics. (1-3 Credits)**

A. A study of selected issues confronted in the Community Nutrition Program. May be retaken to a maximum of six hours provided the subject matter differs each time.

**NFA 805. Nutrition and Health Promotion. (3 Credits)**

A. Prerequisite: Departmental approval. Review and application of nutrition guidelines for program planning and evaluation in health promotion and disease prevention. Study of common eating behaviors and practices and their influence on health and nutrition.

**NFA 810. Problems in Nutrition. (3 Credits)**

A. Prerequisite: NFA 201 or NFA 500/700. Ways of dealing effectively with nutrition concepts as they apply to everyday living.

**NFA 811. Advanced Community Nutrition. (3 Credits)**

I. An in-depth study of the history, legislation, and guidelines of community nutrition/health programs, functions of the public health nutritionist as a counselor, consultant, educator, and communicator. Introduction to community assessment and program planning. Field experience.

**NFA 812. Public Health Nutrition. (3 Credits)**

A. Prerequisite: Departmental Approval. Critical review of public health nutrition services that impact communities. Utilization of federal, state and local data and programs to conduct assessments and plan interventions. Application of administrative principles to program management.

**NFA 816. Special Problems in Nutrition. (1-3 Credits)**

A. Prerequisites: NFA 401 and instructor approval. The student chooses a problem and works under the supervision of an instructor. May be retaken to a maximum of six hours provided the topics vary. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**NFA 817. Maternal, Infant, Child Nutrit. (3 Credits)**

A. Prerequisite: Departmental approval. Review and application of nutritional recommendations and requirements specific to maternal, infant and child populations for implementation and evaluation of nutrition related programs. Study of feeding practices and their impact on health from birth through childhood.

**NFA 820. Community Nutrition Administra. (3 Credits)**

II. Prerequisite: NFA 811. Introduction to health administration, focusing on organizational structure, budget, personnel, legal aspects, public relations, and interorganizational relationships directed toward the public health nutritionist's role as program manager, planner and evaluator. Field experience.

**NFA 825. Obesity and Eating Disorders. (3 Credits)**

A. An examination of the prevalence, physiology, and health consequences of obesity and eating disorders. Program design and analysis of treatment options will also be examined.

**NFA 826. Nutrition for Chronic Disease. (3 Credits)**

A. Pre-requisite: Departmental approval. Critical review of chronic disease incidence and risk factors with an emphasis on the role of nutrition for the management of chronic disease through community based programming.

**NFA 830. Dietetic Internship - Part One. (6 Credits)**

A. Prerequisite: advisor approval. Work under faculty field preceptors to accomplish American Dietetic Association Dietetic Internship Curriculum. Experiences will include a medical nutrition therapy, foodservice management, and specialized clinical rotation.

**NFA 831. Dietetic Internship-Part Two. (6 Credits)**

A. Prerequisite: advisor approval. Work under faculty field preceptors to accomplish American Dietetic Association Dietetic Internship Curriculum. Experiences will include a community nutrition rotation in addition to a comprehensive public health assessment and evaluation project.

**NFA 835. Community Nutrition Practicum. (6 Credits)**

I, II. Prerequisites: NFA 811, 820 or concurrent enrollment or advisor approval. Requires 320 hours observation in selected nutrition programs at local, state, or federal level. Experience under supervision of a registered dietitian. Comprehensive community assessment and analysis of the country/city worked in is also required.

**NFA 840. Public Health Nutrition Practi. (3 Credits)**

A. Prerequisite: Departmental Approval. Supervised and directed public health nutrition field experience in a community, government, or private agency or organization.

**NFA 841. Volume Foodservice Management. (3 Credits)**

A. Prerequisite: NFA 445 or departmental approval. An examination of foodservice management, production, and administration with emphasis on volume foodservice. Field experience.

**NFA 850. Nutri, Foods, Foodsev Adm Wksh. (1-3 Credits)**

A. Current trends, topics, and issues in nutrition, food, and foodservice administration. May be repeated to a maximum of six hours providing topics vary.

## NSC Bac or Grad Nursing (NSC)

**NSC 114. Nursing Concepts I. (5 Credits)**

I, II. Formerly NUR 114. Prerequisite: Admission to the Associate Degree Nursing Program. Corequisite: NSC 114C. Provides fundamental theoretical nursing concepts. Student learning outcomes are human flourishing, nursing judgment, professional identity, and spirit of inquiry. Credit will not be awarded for both NUR 114 and NSC 114.

**NSC 114C. Nursing Concepts Clinical. (3 Credits)**

I II Formerly NUR 114C. Prerequisite: Admission to the Associate Degree Nursing Program. Corequisite: NSC114. This course provides application of fundamental nursing concepts in the laboratory and clinical settings. Credit will not be awarded for both NUR 114C and NSC 114C.

**NSC 124. Medical-Surgical Nursing I. (3 Credits)**

I, II. Formerly NUR 124. Prerequisites: BIO 307, HSO 100, NSC114, 114C and ENG 101 or 101R, each with a grade of "C" or better. Corequisite: NSC 124C. Builds upon previously learned concepts and skills. Provides theories and concepts for applying the nursing process while caring for patients experiencing selected health issues. Credit will not be awarded for both NUR 124 and NSC 124.

**NSC 124C. Medical-Surgical Nursing I Clinical. (2 Credits)**

I,II. Formerly NUR 124C. Prerequisite: BIO 307, HSO 100, NSC 114 & 114C and ENG 101 or 101R, each with a grade of "C" or better. Corequisite: NSC 124. This course provides application of nursing concepts in the clinical setting while caring for patients experiencing selected health issues. Credit will not be awarded for both NUR 124C and NSC 124C.

**NSC 126. Mental Health Nursing. (2 Credits)**

I,II. Formerly NUR 234. Prerequisites: BIO 307, HSO 100, NSC 114, and ENG 101 or 101R, each with a minimum grade of "C". NSC 114C with a grade of "S". Corequisites: NSC 124, 124C, and 126C. This course provides application of nursing concepts in the clinical setting while caring for patients experiencing selected health issues. Credit will not be awarded for both NUR 234 and NSC 126.

**NSC 126C. Mental Health Nursing Clinical. (1 Credit)**

I, II. Formerly NUR 234C. Prerequisites: BIO 307, HSO 100, NSC 114, and ENG 101 or 101R, each with a minimum grade of "C". NSC 114C with a grade of "S". Corequisites: NSC 124, 124C, and 126. Application of the nursing process when caring for patients with mental health needs. Credit will not be awarded for NUR 234C and NSC 126C.

**NSC 223. Medical-Surgical Nursing II. (4 Credits)**

I, II. Formerly NUR 232. Prerequisites: BIO 308, NSC 124, 126, ENG 102 or 102R, and PSY 200 or SOC 131, each with a minimum grade of "C". NSC 124C and 126C with a grade of "S". Corequisites: NSC 223C, 225, and 225C. Provides theories and concepts for applying nursing judgment while caring for adult and pediatric patients experiencing selected complex health issues. Credit will not be awarded for NUR 232 and NSC 223.

**NSC 223C. Medical-Surgical Nursing II Clinical. (2 Credits)**

I,II. Formerly NUR 232C Prerequisite: BIO 308, NSC 124, 126, ENG 102 or 102R, and PSY 200 or SOC 131, each with a minimum grade of "C". NSC 124C and 126C with a grade of "S". Corequisites: NSC 223, 225, 225C. This course provides application of nursing concepts in the clinical setting when caring for adult patients experiencing selected complex health issues. Credit will not be awarded for both NUR 232C and NSC 223C.

**NSC 225. Family Nursing. (4 Credits)**

I, II. Prerequisite: BIO 308, NSC 124 and 126, ENG 102 or 102R and SOC 131, each with a minimum grade of "C". NSC 124C and 126C with a grade of "S". Corequisites: NSC 223, 223C, and 225C. This course provides application of nursing concepts for obstetric and pediatric patients experiencing selected complex health issues.

**NSC 225C. Family Nursing Clinical. (2 Credits)**

I, II. Prerequisite: BIO 308, NSC124 and 126, ENG 102 or 102R and PSY 200 or SOC 131, each with a minimum grade of "C". NSC 124C and 126C with a grade of "S". Corequisites: NSC 223, 223C, and 225. This course provides application of nursing concepts in the clinical setting when caring for obstetric and pediatric patients experiencing selected complex health issues. This clinical course is taken over 2 parts of term during the same semester. Credit will only be awarded at the end of the term.

**NSC 232. Health Assessment and Promotion. (2 Credits)**

I, II. Prerequisites: taken in semester immediately prior to expected enrollment in NSC 380 and students must meet minimum program GPA requirements of 2.5 and department approval. Corequisite: NSC 232L, 242, and 252. Students repeating NSC 232 must also enroll in NSC 232L and the most recent grade in these two corequisites will be applied toward student's GPA. Development of assessment and health promotion skills to be used with clients throughout the life cycle.

**NSC 232L. Health Assessment and Promotion. (1 Credit)**

Prerequisites: GPA 2.5 and Departmental approval. Corequisite: NSC 232, 242 and 252. Students repeating NSC 232L must also enroll in NSC 232 and the most recent grade in these two corequisites will be applied toward student's GPA. Development of assessment and health promotion skills to be used with clients throughout the life cycle.

**NSC 240. Med-Surgical Nursing III. (4 Credits)**

I, II. Formerly NUR 240. Prerequisites: NSC 223, 225, and BIO 273 or MLS 209 (with a minimum grade of "C"), NSC 223C and 225C with a minimum grade of S. Corequisite: NSC 240C, 250, and 255. Students repeating NSC 240 must also enroll in NSC 240C and NSC 250. The most recent grade in these corequisites will be applied towards student's GPA. Provides theory and concepts for applying nursing judgment for the care of groups of patients experiencing selected complex health issues. Credit will not be awarded for NUR 240 and NSC 240.

**NSC 240C. Med-Surgical Nurs III Clinical. (3 Credits)**

I, II. Formerly NSC 241C. Prerequisite: NSC 223, 225 and BIO 273 or MLS 209, each with a minimum grade of "C"; NSC 223C and 225C with a minimum grade of "S". Corequisite: NSC 240, 250, and 255. Students repeating NSC 240C must also enroll in NSC 240 and NSC 250. The most recent grade in these corequisites will be applied toward student's GPA. Clinical immersion synthesizing nursing judgment in caring for groups of patients experiencing complex health issues. Must be taken during the last semester of the AAS program. Credit will not be awarded for both NSC 240C and NSC 241C.

**NSC 242. Communication in Nursing. (3 Credits)**

I, II. Prerequisite: sophomore standing and minimum 2.5 cumulative GPA requirement or department approval. Corequisite: NSC 232, 232L, and 252. Students repeating NSC 242 must also enroll in NSC 232 and NSC 232L. The most recent grade in these corequisites will be applied toward student's GPA. Therapeutic communication processes, theories, and techniques for building nurse client relationships throughout the life cycle. Development of beginning skills in nursing informatics and oral communication. Credit will not be awarded for both NSC 242 and NSC 243.

**NSC 243. Communication in Healthcare. (3 Credits)**

I, II. Prerequisite: department approval. Communication processes, theories, and techniques for building professional, therapeutic relationships throughout the life cycle. Introduction to skills in informatics and oral communication. Credit will not be awarded for both NSC 242 and NSC 243.

**NSC 250. NCLEX Review. (1 Credit)**

(I) I, II Prerequisites: NSC 223, 225, BIO 273 or MLS 209 each with a minimum grade of "C"; NSC 223C and NSC 225C each with a minimum grade of "S". Corequisites: NSC 240, NSC 240C, and NSC 255. Provides a framework for interpreting structural and functional changes associated with diseases, facilitating critical thinking and decision-making required of the associate degree nurse. Students repeating NSC 250 must also enroll in NSC 240 and 240C and the most recent grades in these two corequisites will be applied toward student's GPA.

**NSC 252. Intro to Professional Nursing. (3 Credits)**

I, II. Prerequisite: sophomore standing and minimum 2.5 cumulative GPA requirement or department approval. Corequisite: NSC 232, 232L, and 242. Students repeating NSC 252 must also enroll in NSC 232 and NSC 232L. The most recent grade in these corequisites will be applied toward student's GPA. Nursing science foundation using selected concepts and constructs. Emphasis on past and current knowledge in the formulation of nursing as a basic and applied science. Application of epidemiology to nursing practice.

**NSC 255. Trends and Issues in Nursing. (2 Credits)**

I, II. Formerly NUR 255. Prerequisites: NSC 223 and 225; BIO 273 or MLS 209 each with a minimum grade of "C"; NSC 223C and 255C each with a minimum grade of "S". Corequisite: NSC 240, 240C and 250. Focuses on current issues and trends in nursing. Ethical, legal, and professional responsibilities and career opportunities are examined. Students repeating NSC 255 must also enroll in NSC 240 and 240C and the most recent grades in these two corequisites will be applied toward student's GPA. Credit will not be awarded for both NUR 255 and NSC 255.

**NSC 262. Professional Nursing Concepts. (4 Credits)**

I, II, A. Prerequisite: Admission to the BSN Program- Second Degree Option or departmental approval. Corequisite: NSC 232 and 232L. Introduction to concepts and theories of professional nursing practice. Development of beginning skills for building nursing-patient relationships.

**NSC 300. Nursing Externship. (1-6 Credits)**

I, II. Prerequisite: departmental approval. Integrates practice and education through a health care based service model and collaborative partnerships to enhance clinical nursing competencies.

**NSC 330. Clinical Drug Therapy. (3 Credits)**

I, II, A. Prerequisites: NSC 332, 350, and 380 each with a minimum grade of "C". NSC 332L with a minimum grade of "S". Corequisite: NSC 386 and 386C. Foundation for applying drug knowledge in client care, with emphasis on increasing therapeutic effects and decreasing adverse effects. Includes study of selected drug classes, prototypes and individual drugs.

**NSC 331. Clinical Pharmacology for RN. (3 Credits)**

A. Prerequisite: RN status. Builds on a basic foundation of drug knowledge with an emphasis on both the therapeutic and adverse effects of drug therapy. Includes the study of selected individual drugs, drug classes, and current prototypes.

**NSC 332. Health Assessment and Promotion II. (1 Credit)**

I, II, A. Prerequisites: NSC 232, 242, and 252 with a minimum grade of "C"; NSC 232L with a minimum grade of "S", and admission to the BSN major. Corequisites: NSC 332L, 350, 380, and 380C. Students repeating NSC 332 must also enroll in NSC 332L and the most recent grade in these two corequisites will be applied toward student's GPA. Development of physical assessment skills and evaluation of health patterns for clients throughout the life cycle.

**NSC 332L. Health Assessment and Promotion. (1 Credit)**

Prerequisites: NSC 232, 242 and 252 all with a minimum grade of "C"; NSC 232L with a minimum grade of "S", and admission to the BSN Program. Corequisite: NSC 332, 350, 380 and 380C. Students repeating NSC 332L must also enroll in NSC 332 and the most recent grade in these two corequisites will be applied toward student's GPA. Development of physical assessment skills and evaluation of health patterns for clients throughout the life cycle.

**NSC 350. Pathophysiology. (3 Credits)**

A. Prerequisites: NSC 232, 242, and 252 each with a minimum grade of "C", NSC 232L with a minimum grade of "S", and admission to the baccalaureate nursing major. Corequisite: NSC 332, 332L, 380, and 380C. Provides a framework for interpreting structural and functional changes associated with disease, facilitating critical thinking and decision making required of the professional nurse.

**NSC 370. Health Disparities. (3 Credits)**

A. Prerequisite: junior standing or departmental approval. Explores the social, economic, political and historical context of health disparities experienced by groups with an emphasis on racial/ethnic, gender and socioeconomic aggregates. Explores contributing factors and potential solutions to domestic and global health disparities.

**NSC 378. Short Topics in Clinical Nursing. (1-3 Credits)**

A. Prerequisites: NSC 392, 392C, 396 and 396C. Provides enrichment learning for upper division nursing students and practicing registered nurses. Each segment of the course describes the current trends in nursing theory and practice including relevant pathologic processes and usual nursing management. Emphasis on in-depth study of current interest topics.

**NSC 380. Adult Health Nursing I. (2 Credits)**

I, II. Prerequisites: NSC 232, 242, and 252 all with a minimum grade of "C"; NSC 232L with a minimum grade of "S" and admission to the BSN program. Corequisite: NSC 332, 332L, 350 and 380C. Students repeating NSC 380 must also enroll in NSC 380C and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 380C. Adult Health Nursing I Clinical. (2 Credits)**

I, II. Prerequisites: NSC 232, 242 and 252, all with a minimum grade of "C"; NSC 232L with a minimum grade of "S" and admission to the BSN Program. Corequisite: NSC 332, 332L, 350 and 380. Students repeating NSC 380C must also enroll in NSC 380 and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 381. Perspectives in Professional Nursing I. (3 Credits)**

A. Prerequisites: RN status and admission to the RN-BSN option. Transition to the professional nursing role for the RN student emphasizing foundational concepts of professional nursing practice.

**NSC 383. Perspectives in Professional Nursing II. (3 Credits)**

(3) Prerequisite: NSC 381. Transition to the professional nursing role for the RN student emphasizing the knowledge development of concepts and theories essential for professional practice.

**NSC 385. Perspectives in Professional Nursing III. (4 Credits)**

(4) A. Prerequisite: NSC 383. Advanced concepts and skills for professional nursing practice.

**NSC 386. Adult Health Nursing II. (7 Credits)**

I, II, A. Prerequisites: NSC 332, 350, and 380, all with a minimum grade of "C"; NSC 332L and 380C with a minimum grade of "S". Corequisites: NSC 330 and 386C. Students repeating NSC 386 must also enroll in NSC 386C and the most recent grade in these two corequisites will be applied toward student's GPA.

**NSC 386C. Adult Health Nursing II. (3 Credits)**

I, II, A. Prerequisites: NSC 332, 350 and 380, all with a minimum grade of "C"; NSC 380C and 332L with a minimum grade of "S"; Admission to the BSN Program. Corequisite: NSC 330 and 386. Students repeating NSC 386C must also enroll in NSC 386 and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 390W. Research for EBNP. (2 Credits)**

I, II, A. Prerequisites: STA 215, or 270, or SOC 232 with a minimum grade of "C", ENG 102, 102R, 105(B), HON 102. Applies research findings for evidence-based nursing practice.

**NSC 392. Mental Health Nursing. (3 Credits)**

I, II, A. Prerequisites: NSC 330 and 386, each with a minimum grade of "C"; NSC 386C with a minimum grade of "S". Corequisite: NSC 392C. Students repeating NSC 392 must also enroll in NSC 392C and the most recent grade in these two corequisites will be applied toward student's GPA.

**NSC 392C. Mental Health Nursing Clinical. (2 Credits)**

I, II, A. Prerequisites: NSC 330 and 386, each with a minimum grade of "C"; NSC 386C with a minimum grade of "S". Corequisite: NSC 392. Students repeating NSC 392C must also enroll in NSC 392CC and the most recent grade in these two corequisites will be applied toward student's GPA. Uses the nursing process to develop practice solutions for clients throughout the life cycle with selected mental health issues.

**NSC 396. Family Health Nursing. (5 Credits)**

I, II, A. Prerequisites: NSC 330 and 386, each with a minimum grade of "C" NSC 386C with a minimum grade of "S". Corequisite: NSC 396C. Students repeating NSC 392 must also enroll in NSC 392C and the most recent grade in these two corequisites will be applied toward student's GPA. Uses the nursing process to develop practice solutions for families during childbearing and child rearing experience.

**NSC 396C. Family Health Nursing. (2 Credits)**

I, II. Prerequisites: NSC 330 and 386, each with a minimum grade of "C"; NSC 386C with a minimum grade of "S". Corequisite: NSC 396. Students repeating NSC 396C must also enroll in NSC 396 and the most recent grade in these two corequisites will be applied toward student's GPA. Uses the nursing process to develop practice solutions for families during childbearing and child rearing experience. This clinical course is taken over 2 parts of term during the same semester. Credit will only be awarded at the end of the term.

**NSC 440. Leadership and Management. (3 Credits)**

A. Prerequisites: RN status and admission to the RN-BSN option. An overview of leadership and management theory in health care explores the leadership role of nursing. Strategies for facing challenges, promoting cost-effective health care, and promoting leadership success in the dynamic health care system.

**NSC 442. Complex Health Systems. (3 Credits)**

(3) A. Prerequisites: NSC 440, 445, 486, each with a minimum grade of "C". Corequisite: NSC 442C. Synthesis of professional nursing competencies and concepts to address human diversity and manage care in today's complex health systems.

**NSC 442C. Complex Health Systems. (2 Credits)**

(2) Prerequisites: NSC 440, 445, NSC and 486, each with a minimum grade of "C". Corequisite: NSC 442. Synthesis and performance of professional nursing care competencies to address human diversity and manage care in today's complex health systems.

**NSC 445. Professional Role Transitions. (2 Credits)**

A. Prerequisites: RN status and admission to the RN-BSN option. Role development seminar for RNs. Critical analysis of trends which shape professional nursing practice. Analysis of strategies for instituting change in various health care delivery systems.

**NSC 480. Health Care Leadership. (3 Credits)**

I, II. Prerequisites: NSC 390W, 392, and 396 each with minimum grades of "C"; NSC 392C and 396C with a minimum grade of "S". An overview of leadership and management theory within nursing including legal, ethical and economic concepts. Prepares students to assume leadership in dynamic health care systems to promote comprehensive, cost effective health care.

**NSC 484. Adult Health Nursing III. (2.5 Credits)**

I, II. Prerequisites: NSC 390W, 392 and 396, with minimum grade of "C"; NSC 392C and 396C with a minimum grade of "S". Corequisite: NSC 484C. Students repeating NSC 484 must also enroll in NSC 484C and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 484C. Adult Health III Clinical. (2.5 Credits)**

I, II, A. Prerequisites: NSC 390W, 392 and 396, all with a minimum grade of "C"; NSC 392C and 396C with a minimum grade of S. Corequisite: NSC 484. Students repeating NSC 484C must also enroll in NSC 484 and the most recent grade in these two corequisites will be applied toward student's GPA. Uses nursing process to develop practice solutions for selected adult health issues.

**NSC 486. RN Public Health Nursing. (3 Credits)**

(3) Prerequisite: NSC 385 and 390W, each with a minimum grade of "C". Synthesizes nursing concepts and applies the nursing process to develop practice partnerships with communities and their subsystems.

**NSC 487. Public Health Nursing. (2.5 Credits)**

I, II, A. Prerequisite: NSC 390W, 392 and 396, all with a minimum grade of "C"; NSC 392C and 396C with a minimum grade of "S". Corequisite: NSC 487C. Students repeating NSC 487 must also enroll in NSC 487C and the most recent grade in these two corequisites will be applied toward student's GPA. Synthesizes nursing concepts and applies the nursing process to develop practice partnerships with communities and their subsystems.

**NSC 487C. Public Health Nursing. (2.5 Credits)**

I, II, A. Prerequisite: NSC 390W, 392 and 396, all with a minimum grade of "C"; NSC 392C and 396C with a minimum of "S". Corequisite: NSC 487. Students repeating NSC 487C must also enroll in NSC 487 and the most recent grade in these two corequisites will be applied toward student's GPA. Synthesizes nursing concepts and applies the nursing process to develop practice partnerships with communities and their subsystems.

**NSC 492. Complex Client Health Care. (2 Credits)**

I, II. Prerequisites: NSC 480, 484, and 487 each with a minimum grade of "C"; NSC 484C and 487C with a minimum grade of "S". Corequisite: NSC 492C, 495, and 496. Students repeating NSC 492 must also enroll in NSC 492C and 496. The most recent grade in these corequisites will be applied toward student's GPA. Synthesizes nursing competencies to manage complex health problems, integrating legal, ethical and economic concepts.

**NSC 492C. Complex Client Health Care Clinical. (3 Credits)**

I, II, A. Prerequisites: NSC 480, 484 and 487 each with a minimum grade of "C"; NSC 484C and 487C with a minimum grade of "S". Corequisite: NSC 492 and 495, and 496. Students repeating NSC 492C must also enroll in NSC 492 and 496. The most recent grade in these two corequisites will be applied toward student's GPA. Synthesizes nursing competencies to manage complex health problems, integrating legal, ethical and economic concepts.

**NSC 495. Professional Role Transition. (2 Credits)**

I, II. Prerequisite: NSC 480, 484, and 487 each with minimum grades of "C", NSC 484C and 487C with minimum grade of "S". Corequisite: NSC 492, 492C and 496. Students repeating NSC 495 must also enroll in NSC 492, 492C, and 496. The most recent grade in these corequisites will be applied toward student's GPA. Role development seminar emphasizing refinement of oral presentation skills. Critical analysis of role theory, political, economic and socio-ethical systems which shape nursing practice. Analyzes strategies for instituting change in the health care delivery system.

**NSC 496. Application of Nursing Theory. (2 Credits)**

I, II. Prerequisites: NSC 480, 484, and 487 each with minimum grades of "C", NSC 484C and 487C with minimum grade of "S". Corequisites: NSC 492, 492C and 495. Students repeating NSC 496 must also enroll in NSC 492 and 492C. The most recent grade in these corequisites will be applied toward student's GPA. Facilitates synthesis of nursing knowledge and strengthens the student's ability to apply theory to specific patient situations. Patient case situations from all nursing clinical areas are utilized.

**NSC 498. Independent Study. (1-6 Credits)**

A. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. Directed study or research on an issue or area of interest to nursing. May be retaken to a maximum of six hours.

**NSC 500. Early Childhood Health Care. (3 Credits)**

A. Prerequisite: education major or instructor approval. Focuses on the development of competencies necessary for health management of young children (ages birth through five years) with special health care needs. Appropriate for non-health care professionals in the community or classroom.

**NSC 700. Early Childhood Health Care. (3 Credits)**

A. Prerequisite: education major or permission of instructor. Focuses on the development of competencies necessary for health management of young children (ages birth to five years) with special health care needs. Appropriate for non-health care professionals in the community or classroom.

**NSC 800. Advanced Practice Role. (1-9 Credits)**

A. Advanced practice role clinical experience. Students will retake for the minimum number of hours required for their specialty concentration.

**NSC 802. Population-Focused Practice. (1-6 Credits)**

A. Clinical experience for graduate nursing administration students to demonstrate population focused nursing leadership competencies. Students will retake for the minimum number of credit hours required for the specialty option.

**NSC 830. Advanced Pharmacology. (3 Credits)**

A. Prerequisite: admission to MSN program or department approval. Application of pharmacotherapeutic principles to the treatment and management of conditions across the life span.

**NSC 832. Advanced Health Assessment. (3 Credits)**

A. Prerequisite: admission to MSN program or department approval. Emphasis is on the advanced skills necessary for Advanced Practice nursing in assessing the health status of clients from across the life span. Diagnostic reasoning and systems approach will be emphasized.

**NSC 834. Advanced Pathophysiology. (3 Credits)**

A. Prerequisite: admission to the MSN program or department approval. Application of advanced pathophysiology to the diagnosis and treatment of conditions across the life span.

**NSC 836. Rural Public Health Nursing I. (2 Credits)**

A. Prerequisite: admission to the MSN program. Corequisite: NSC 802. An analysis of the core concepts of advanced public health nursing with an emphasis on rural public health needs, health care systems, and the role of the nurse.

**NSC 837. Three P's- Public Hlth Nursing. (3 Credits)**

(3) A. Prerequisite: Admission to the MSN program, HEA 855, NSC 850. Explore the relevance and benefit of epidemiology in the field of organizational healthcare management, including a focus on population outcomes and the 3 P's: Prevalence of disease, Prevention of adverse events, and Preparedness for emergencies.

**NSC 838. Topics for Advanced Practice. (1-6 Credits)**

A. Selected topics will be offered as appropriate for enhancement of advanced practice nursing role. May be retaken under different topics for a maximum of six credit hours. A. Selected topics will be offered as appropriate for enhancement of advanced practice nursing role. May be retaken under different topics for a maximum of six credit hours.

**NSC 840. Theoretical Foundation for EBC. (3 Credits)**

A. Prerequisite: admission to the MSN program or department approval. Provides a basic understanding of the process of theory construction and an appreciation of the role that theory plays in providing a scientific basis for nursing.

**NSC 842. Advanced Nsg. Practice Issues. (3 Credits)**

A. Prerequisite: admission to the MSN program or department approval. Analysis of professional issues and strategies, which can facilitate the development of the nursing profession. Consideration of selected variables influencing the development and resolution of issues.

**NSC 850. Assessment and Collaboration. (3 Credits)**

(3) A. Prerequisite or Corequisite: HEA 855 with a minimum grade of B. Analyze Advanced Nursing concepts of assessment and dimensions of practice related to population-focused health care within communities and systems.

**NSC 852. Program and Policy Development. (3 Credits)**

(3) A. Prerequisite: NSC 850 with a minimum grade of "B"; Corequisite: Analysis of the core concepts and competencies of advanced nursing Administration with an emphasis on program and policy development and quality improvement initiatives for population-focused health.

**NSC 854. Management of Health Care. (3 Credits)**

A. Prerequisite: admission to MSN program. Theoretical basis for the advanced nurse's role in management of health care in rural settings. Strategies for the improvement of health care in rural settings will be analyzed.

**NSC 856. Nursing Resource Management. (3 Credits)**

(3) A. Prerequisite: Admission to MSN program. Overview of nursing resource management for the nurse leader to promote a fiscally responsible health care environment.

**NSC 858. Nursing System Quality Mgmt. (3 Credits)**

(3) A. Prerequisite: Admission to MSN program. Explore and analyze the role of the nurse leader as it relates to quality management and safety for system effectiveness and healthcare outcomes.

**NSC 860. Nursing AdminPracticum. (3 Credits)**

(3) A. Prerequisite: NSC 854, 856 and 858 with a minimum grade of B. B. A synthesis of leadership, management, and public health nursing theory applied to the role of the nurse leader in the administration of health systems. Includes problem resolution and analysis of alternative approaches.

**NSC 862. Nursing Admin Internship. (3 Credits)**

A. Prerequisite: NSC 850 and 852, each with a minimum grade of "B" and two hours of NSC 802. Internship allows the student to apply advanced knowledge and skills in implementing the role of a nurse leader in administration of population-focused health to improve health outcomes.

**NSC 870. Rural Health FNP I. (3 Credits)**

A. Prerequisite: NSC 830, NSC 832, NSC 834, and NSC 840, each with a grade of B or better. Course provides theoretical and diagnostic knowledge necessary to confront problems relevant to the health care of individuals across the life span. Emphasis on health promotion, disease prevention and management of common health problems.

**NSC 872. Rural Health FNP II. (3 Credits)**

A. Prerequisites: NSC 870 with a minimum grade of B. Corequisite: Theoretical and diagnostic knowledge necessary to confront problems relevant to the health care of individuals across the life span. Emphasis on health promotion, disease prevention, and management of common health problems. Builds on NSC 870.

**NSC 874. Rural Health FNP III. (3 Credits)**

A. Prerequisite: NSC 872 with a minimum grade of B. Corequisite: NSC 800. Theoretical and diagnostic knowledge necessary to confront problems relevant to the health care of individuals across the life span. Emphasis on health promotion, disease prevention and management of common health problems. Builds on NSC 872.

**NSC 876. Rural Health FNP Internship. (6 Credits)**

A. Prerequisite: NSC 870, NSC 872, NSC 874, each with a minimum grade of "B", and eight hours of NSC 800. Prerequisite /Co requisite: NSC 842, with a minimum grade of "B". Course allows synthesis of theoretical and diagnostic knowledge in a concentrated rural primary care practicum. Emphasis on health promotion, disease prevention and management of common health problems in individuals and families across the lifespan.

**NSC 880. Rural PMHNP I. (3 Credits)**

A. Prerequisite: NSC 830, NSC 832, NSC 834, and NSC 840, each with a minimum grade of B. Corequisite: NSC 881. Theoretical and diagnostic knowledge necessary to diagnose and treat psychiatric disorders across the life span. Competencies in working with individuals are developed.

**NSC 881. Applied Psychopharmacology. (3 Credits)**

A. Prerequisite: NSC 830, NSC 832, and NSC 834, each with a minimum grade of B. Corequisite: NSC 880. Applies theoretical and diagnostic knowledge related to prescribing psychopharmacological treatment of psychiatric disorders across the life span.

**NSC 882. Rural PMHNP II. (3 Credits)**

A. Prerequisite: NSC 880 and 881, each with a minimum grade of B. Corequisite: NSC 800. Theoretical and diagnostic knowledge necessary to diagnose and treat psychiatric disorders across the life span. Competencies in working with families are developed.

**NSC 883. Rural PMHNP Child Adolescent. (3 Credits)**

A. Prerequisite: NSC 830, NSC 832, NSC 834 & NSC 881. Current Certification as an Adult PMHNP/CS. Applies theoretical and diagnostic knowledge related to treatment of psychiatric disorders in children and adolescents.

**NSC 884. Rural PMHNP III. (3 Credits)**

A. Prerequisite: NSC 882 with a minimum grade of "B". Theoretical and diagnostic knowledge necessary to diagnose and treat psychiatric orders across the life span. Group skills, community resources, and the context of professional practice are examined.

**NSC 886. Rural PMHNP Internship. (5 Credits)**

A. Prerequisite: NSC 884 with a minimum grade of "B" and seven hours of NSC 800. Prerequisite/Co requisite: NSC 842, with a minimum grade of B. Synthesis of theoretical and diagnostic knowledge to promote mental health and maintain mental health across the life span. Systematically examines opportunities for improving PMHNP practice.

**NSC 890. Synthesizing Evidence for ANP. (3 Credits)**

A. Prerequisite: NSC 840, with a minimum grade of "B". Critical appraisal and synthesis of nursing and inter-professional research as a foundation for evidence-based advanced nursing practice in diverse populations.

**NSC 892. Evidence-based Proj in ANP. (3 Credits)**

A. Prerequisite: NSC 890, with a minimum grade of B. Implementation of an evidence-based project to improve health or healthcare delivery for diverse populations.

**NSC 895. Independent Study in Nursing. (1-6 Credits)**

A. May be retaken under different subtopics to a cumulative maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**NSC 900. Seminar I: Role Transition. (1-3 Credits)**

A. Prerequisite: Admission to DNP program. Explore issues pertinent to role transition and role assimilation for the DNP graduate.

**NSC 901. Seminar II: DNP Project. (1-2 Credits)**

A. Prerequisite: NSC 990. Provides an opportunity for synthesis of evidence-based theoretical concepts to incorporate into practice.

**NSC 905. Analytical Methods for EBP. (3 Credits)**

A. Prerequisite: Admission to DNP Program. Description and analysis of quantitative data using statistical and graphical methods for purposes of evidence-based practice.

**NSC 938. Special Topics for DNP. (1-6 Credits)**

A. Prerequisite: Admissions to DNP Program. Selected topics will be offered as appropriate for enhancement of advanced nursing role. May be retaken under different topics for a maximum of six credit hours.

**NSC 940. Theoretical Appl for DNP. (3 Credits)**

A. Prerequisite: Admissions to DNP Program. Theoretical perspectives, integration of nursing science, and the interrelationships among theory, research, and evidence-based nursing practice will be explored, emphasizing strategies for knowledge and theory development, evaluation, and application.

**NSC 942. Healthcare Deliv. Informatics. (3 Credits)**

A. Prerequisite: Admission to DNP Program. Focuses on theoretical basis of information systems in healthcare, impact of informatics on clinical practice and administrative decision-making, and strategies to evaluate and improve use of information technology in health care.

**NSC 950. Health Policy. (3 Credits)**

A. Prerequisite: Admission to DNP Program. Analysis of the policy process in order to develop advanced nursing leadership skills for designing, implementing, and evaluating health policy.

**NSC 954. Organizational Leadership. (3 Credits)**

A. Prerequisite: Admission to DNP Program. Explores theoretical foundations of leadership with an organization systems perspective. Examine principles of organizational systems, quality improvement, dimensions of healthcare/ organizations, and human resource management.

**NSC 960. Mngmnt of Health Care Resource. (3 Credits)**

(4) A. Prerequisite: Admission to the DNP program. Examines healthcare resources and their relationship to clinical practice, to solve problems/ issues pertaining to healthcare delivery. Students are expected to have a basic understanding of economic and financial concepts utilized to examine these issues.

**NSC 990. Synthesizing Evidence for DNP. (3 Credits)**

A. Prerequisite: NSC 905 and NSC 942, each with a minimum grade of "B". Translate scientific nursing knowledge into complex interventions to improve practice and health outcomes.

**NSC 992. Implementation Methods for DNP. (3 Credits)**

A. Prerequisite: NSC 990 with a minimum grade of "B". Translate scientific multi-disciplinary knowledge into complex interventions to improve practice and health outcomes in the development of a proposal to enhance evidence-based practice.

**NSC 994. DNP Project. (3-9 Credits)**

A. Prerequisite: NSC 992, with a minimum grade of "B". Translate a body of evidence-based research in the implementation of a project to improve practice and health outcomes.

**NSC 995. Independent Study in Nursing. (1-6 Credits)**

A. Prerequisite: Admission to DNP Program. May be retaken under different subtopics to a cumulative maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## NSM Network Security Mgt (NSM)

### NSM 815. Foundations of Network Sec. (3 Credits)

#### NSM 845. Advanced Server Security. (3 Credits)

A. Prerequisites: Departmental approval. Security management, planning, designing, performance tuning and troubleshooting servers for small-to-medium businesses (SMBs) and enterprises. Hardening services such as web, DNS, file, Directory, and Terminal access. 2 Lec/2 Lab.

#### NSM 865. Wireless & Mobile Security. (3 Credits)

A. Prerequisites: NSM 815 or departmental approval. Advanced wireless and mobile computing security consideration in small-to-medium business (SMB) and enterprise level networks: Security auditing, standards, protocols, vulnerabilities, attacks, countermeasures, network planning, management, and troubleshooting. 2 Lec/2 Lab.

#### NSM 895. Special Topics in NSM. (3 Credits)

A. Prerequisites: NSM 815 or Departmental Approval. Emerging technologies in the area of advanced computer networking or telecommunications security, including LAN/WAN/SAN system administration, hardware, software, virtualization, operating systems, scripting, and related industry certifications. 2 Lec/ 2 Lab.

## NUR Associate Nursing (NUR)

### NUR 114. Nursing Concepts I. (5 Credits)

I, II. Prerequisite: Admission to the Associate Degree Nursing Program. Corequisite: NUR 114C. Provides fundamental theoretical nursing concepts. Student learning outcomes are human flourishing, nursing judgment, professional identity, and spirit of inquiry. Credit will not be awarded for students who have credit for NUR 112 or NUR 116.

### NUR 114C. Nursing Concepts Application I. (3 Credits)

Prerequisite: Admission to the Associate Degree Nursing Program. Corequisite: NUR 114. This course provides application of fundamental nursing concepts in the laboratory and clinical settings.

### NUR 124. Nursing Concepts II Med-Surg. (3 Credits)

(5) I, II. Prerequisites: NUR 114, BIO 171, ENG 101 or 101R, NFA 201 all with a grade of C or better. Builds upon previously learned concepts and skills. Provides theories and concepts for applying the nursing process while caring for patients experiencing selected health issues.

### NUR 124C. Nursing Concepts App II. (2 Credits)

Prerequisite: NUR 114 & 114C, HSO 100, BIO 171, NFA 201, ENG 101 or 101R, all with a grade of "C" or better. Corequisite: NUR 124. This course provides application of nursing concepts in the clinical setting while caring for patients experiencing selected health issues.

### NUR 126. Nursing Concepts II-Perinatal. (2 Credits)

(3) I, II. Prerequisites: NUR 114, 114C, HSO 100, BIO 171, ENG 101 or ENG 101R, NFA 201 all with a grade of C or better. Corequisite: NUR 126C. Builds upon previously learned concepts and skills. Provides theories and concepts for applying the nursing process while caring for families throughout the childbearing experience.

### NUR 126C. Perinatal Nursing Application. (1 Credit)

(1) I,II. Prerequisite: NUR 114, 114C; HSO 100, BIO 171, NFA 201, & ENG 101 or ENG 101R, all with a grade of "C" or better. Corequisite: NUR 126. Application of the nursing process when caring for families during the childbearing experience.

### NUR 200. Dosage Calculation for Nursing. (1 Credit)

A. Develops competency in dosage calculation and provides progression in application for nonparenteral to parenteral medications.

### NUR 201. Dosage Calculation for Nsg. II. (1 Credit)

I, II. Prerequisite: NUR 117 (S) or NUR 200 (C or better). Develops competency in dosage calculations of intravenous therapies. Emphasis on IV medication on titration calculations including pediatric, obstetric, and clinical care dosages.

### NUR 210. Medieval/Modern Drug Treatment. (3 Credits)

I, II. This course explores herbology, home and folklore remedies, over-the-counter medications, high technology drug development, Food and Drug Administration (FDA) approval, and considers implications of merging past and present medicinal treatments.

### NUR 215. Clinical Techniques in Nursing. (1-6 Credits)

A. Prerequisites: NUR 120, 121, 122, and 123 or 124 & 126 or equivalent with a grade of C- or better. Supervised practice in department approved agency. The number of hours will depend on the range and depth of activities. May be retaken to a maximum of 6 hours.

### NUR 217. Strategies for Success/Nursing. (1 Credit)

(1) I, II. Prerequisite: Readmission to the ADN program. Explores strategies to develop habits which promote success. Required for students readmitted to the ADN program after being unsuccessful in an NUR core course.

### NUR 230. Principles of Pain Management. (2 Credits)

I, II. This course examines specific concepts aimed at relieving client pain by altering the physiological, psychological, and behavioral variables of the pain experience.

### NUR 232. Nursing Concepts III-Med-Surg. (5 Credits)

I, II. Prerequisites: NUR 124, NUR 124C, NUR 126, NUR 126C; BIO 301, ENG 102 or ENG 105 (B), SOC 131 all with a grade of C or better. Corequisite: NUR 232C Provides theories and concepts for applying nursing judgment while caring for adult and pediatric patients experiencing selected complex health issues.

### NUR 232C. Nursing Concepts Applic III. (3 Credits)

(3) I, II. Prerequisite: NUR 124, 124C, 126, 126C; ENG 102; BIO 301; SOC 131, all with a grade of "C" or better. Corequisite: NUR 232. This course provides application of nursing concepts in the clinical setting when caring for adult and pediatric patients experiencing selected complex health issues.

### NUR 234. Mental Health Concepts. (2 Credits)

I, II. Prerequisites: NUR 124, 124C, 126, 126C, ENG 102 or ENG 105, BIO 301, SOC 131 all with a grade of C or better. Corequisite: NUR 234C. Provides theories and concepts for applying nursing judgment while caring for patients with a focus on psychosocial mental health.

### NUR 234C. Mental Health Application. (1 Credit)

(1) I, II. Prerequisite: NUR 124, 124C, 126, 126C; ENG 102, BIO 301, SOC 131, all with a grade of "C" or better. Corequisites: NUR 234. This course provides application of nursing concepts in the clinical setting when caring for patients with a focus on psychosocial mental health.

### NUR 240. Nursing Concepts IV-Med-Surg. (5 Credits)

(5) I, II. Prerequisites: NUR 232, 234, and BIO 273 or MLS 209/211, (all with a grade of "C" or better); NUR 232C and 234 C with a minimum grade of S. Corequisite: NUR241. Provides theory and concepts for applying nursing judgment for the care of groups of patients experiencing selected complex health issues.

**NUR 241C. Clinical Nursing Synthesis. (4 Credits)**

(4) I, II. Prerequisite: NUR 232, 234, BIO 273 or MLS 209/211, all with a minimum grade of "C" or better; NUR 232C and 234C with a minimum grade of "S". Corequisite: NUR 240 & 255. Clinical immersion synthesizing nursing judgment in caring for groups of patients experiencing complex health issues. Must be taken during the last semester of the ADN program.

**NUR 242. Nursing Concepts IV. (9 Credits)**

I, II. Prerequisites: NUR 232, 234, BIO 273 or CLT 209/211, PSY 200 all with grade of  $\geq C$  or better. Corequisite: NUR 255. Develops competencies in the application of the nursing process while caring for individuals and groups of adult and pediatric clients experiencing selected complex health issues.

**NUR 247. Holism, Health & Success. (1 Credit)**

I, II. Prerequisite: CHS nursing student. Principles and theories from holistic nursing, education, and psychology are explored and applied to the creation of academic success, health, and the attainment of personal life goals.

**NUR 250. Introduction to Gerontology. (3 Credits)**

I, II. Formerly CHS 250. An interdisciplinary approach to the study of aging that presents a balanced view of both normal and problem aspects of aging. Credit will not be awarded to students who have credit for CHS 250.

**NUR 255. Trends & Issues in Nursing. (2 Credits)**

I, II. Prerequisites: NUR 232 and 234 all with a minimum grade of "C" or better; NUR 232C and 234C with a minimum grade of "S". Corequisite: NUR 241C. Focuses on current issues and trends in nursing. Ethical, legal, and professional responsibilities and career opportunities are examined.

**NUR 265. Independent Study. (1-6 Credits)**

A. Directed study on an issue or area of interest to nursing. May be retaken to a maximum of six hours credit.

**NUR 300. Nursing Externship. (1-6 Credits)**

A. Formerly NSC 300. Prerequisite: departmental approval. Integrates theory and practice through collaborative partnerships to enhance clinical nursing competencies.

## OHO Ornamental Horticulture (OHO)

**OHO 115. Operation of Horticultural Equipment. (2 Credits)**

(2) I. Lecture, laboratory and field experiences related to horticultural power equipment, and their safe operation, including hydraulics, electricity chemical and maintenance facilities. 1 Lec/2 Lab.

**OHO 131. Plant Science. (3 Credits)**

A. Corequisite: OHO 132. Principles of plant growth, reproduction and plant-soil relationships. Provides foundations of information for further study in agricultural and horticultural crop production and soil management. Credit will not be awarded to students who have credit for AGR 130.

**OHO 132. Plant Science Laboratory. (1 Credit)**

I. Corequisite: OHO 131. Laboratory and field experiences related to plant growth, development, and management of crops. Credit will not be awarded to students who have credit for AGR 131.

**OHO 301. Directed Work Experience. (1-4 Credits)**

I, II. A minimum of three hours per week per hour of credit using university or other approved facilities. May be retaken for a maximum of 4 credit hours.

**OHO 304. Horticulture Pest Management. (4 Credits)**

(4) II. Identification of the principle horticulture insect, disease, and weed pests in the transition zone. Control measures are identified with special emphasis on the safe use of chemicals and equipment calibration. Credit will not be awarded for both OHO 304 and AGR 304. 3 Lec/2 Lab.

**OHO 349. Applied Learning in Horticulture. (1-8 Credits)**

A. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**OHO 351. Turf Grass Management. (4 Credits)**

I. Prerequisite: AGR 215. The establishment and maintenance of greenspaces utilizing turfgrass species and cultivars adapted to variable intensities of culture. Relationships of environmental factors and cultural practices are emphasized. 3 Lec/2 Lab.

**OHO 353. Sports Turf Management. (3 Credits)**

(3) A. Management techniques for today's specialized athletic fields. The agronomic aspects of football, soccer, baseball, and some specialty fields are presented. Field trips and classroom exercises develop a practical understanding of field construction and management.

**OHO 354. Irrigation Systems and Horticultural Equipment. (3 Credits)**

I. An introduction to irrigation systems, their design and installation for efficient water utilization. Lecture and field experiences related to horticultural power equipment and their safe operation. 2 Lec/ 2 Lab.

**OHO 362. Topics in Landscape Gardening. (1 Credit)**

A. Students may enroll once in each topic for a total of seven hours. OHO 362A Home Landscape Option. OHO 362D Disease and Insect Control Option. OHO 362E Floral Design Option. (2 credit hours: 1 Lec/2 Lab) OHO 362F Lawn Establishment and Maintenance Option. OHO 362G Problems of Golf Course Operation Option. OHO 362K Interior Plantscaping Option.

**OHO 362E. Floral Design Option. (2 Credits)**

A. An Option in Landscape Gardening.

**OHO 362G. Problems of Golf Course Operation Option. (1 Credit)****OHO 364. Advanced Floral Design. (2 Credits)**

A. The study and practice of advanced floral design techniques; includes construction of conventional and contemporary floral designs. 1 Lec/2 Lab.

**OHO 365. Plant Identification. (3 Credits)**

I. Study of plants used in horticulture (including landscape and specialty crops) including their biological identification, ornamental features, environmental adaptation, utilization, and management. 2Lec/2Lab.

**OHO 366. Plant Identification. (2 Credits)**

A. Study of plants used in landscaping and nursery production including their biological identification, ornamental features, environmental adaptation, utilization, and management 1 Lec/2 Lab.

**OHO 368. Landscape Design Using CAD. (2 Credits)**

(2) I. Introduces computer aided design (CAD) for landscape design. The course also provides experience in the use of commercially available programs for landscape design, project management, pricing, and bid preparation. 4 Lab.

**OHO 370. Landscape Operations Management. (3 Credits)**

II. Management of labor, estimating and bidding along with basic maintenance of trees, shrubs, and herbaceous plants in the landscape operation. 2 Lec/2 Lab.

**OHO 372. Horticulture Retail and Wholesale Management. (2 Credits)**

A. The design, development, and management of a retail/wholesale outlet for horticultural products. Students will develop a model retail/wholesale business including all phases of applied sciences such as business record keeping. 1 Lec/2 Lab.

**OHO 373. Fruit Production. (3 Credits)**

(3) a. Study of domestic and commercial production practices of fruits including identification, agricultural and environmental characteristics, horticulture, and marketing. Fruits include tree fruits, vines, brambles, and soft fruits. 2 Lec/2 Lab.

**OHO 374. Vegetable Production. (3 Credits)**

(3) A. Study of domestic and commercial production of vegetables including identification, agricultural and environmental characteristics, horticulture, and marketing. 2 Lec/2 Lab.

**OHO 375. Post Harvest Technology of Horticultural Crops. (3 Credits)**

(3) A. The science and procedures for handling, packaging, storing and transporting fresh fruits, vegetables and ornamentals.

**OHO 388. Greenhouse Operation and Management. (3 Credits)**

II. Plant propagation and growing techniques in a greenhouse. The student learns operation procedures and the economics of operating a greenhouse and using cold and hot frames. 2 Lec/2 Lab.

**OHO 391. Landscape Design and Methods. (3 Credits)**

A. Prerequisite: OHO 365. Elements of design and the execution of the landscape architect plan, introduction to CAD and project management. 1 Lec/4 Lab.

**OHO 392. Landscape Construction Techniques. (3 Credits)**

II. Comprehensive study of common landscape construction materials and their use in current landscape applications. Class will include laboratory exercises involving the construction of such components as retaining walls, water features, decks, and patios.

**OHO 410. Independent Study in Horticulture:\_\_\_\_. (1-3 Credits)**

I, II. Prerequisite: Departmental approval. Cross listed as AGR 410. Students choose a problem and work under the supervision of the instructor in the field of the problem. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken for a maximum of 6 credit hours provided topics are different. Credit will not be awarded to students who have credit for AGR 410.

**OHO 498. Turf Grass Capstone. (3 Credits)**

(3) A. Prerequisites: OHO351 or 353, and Junior or Senior standing. A comprehensive review of information pertinent to managing turfgrass areas that will enhance graduate's ability to stay within budget, stay on task with seasonal work, and prepare for industry offered certification exams.

**OHO 499. Horticultural Issues Capstone. (3 Credits)**

(3) A. Prerequisite: OHO 349 and Junior or Senior standing. This course provides students with an in-depth examination of the issues facing contemporary horticultural managers including management principles, ethical considerations, and delivery of a quality product or service.

## OSH Occupational Safety (OSH)

**OSH 110. Introduction to Safety Studies. (3 Credits)**

A. Students will develop the necessary writing, study, research, and Blackboard navigation skills. Topics include history of OSHA, safety ethics, basic hazard identification and analysis, and safety profession and hazard reports.

**OSH 200. Measures of Safety Performance. (3 Credits)**

A. Strategies and methods for calculating, analyzing, interpreting and communicating safety performance data. Presents lagging and leading metrics of safety, quantitative and qualitative statistical techniques, descriptive and inferential statistics, correlations, and financial principles. Credit will not be awarded for both OSH 200 and FSE 200.

**OSH 225. Legal Aspects of Occupational Safety. (3 Credits)**

A. Study of the OSH Act, OSHA standards, correlating laws and legislation impacting the safety function and employee safety. Emphasis on legal rights, responsibilities, legal risks, liabilities, scope of authority, ethical/professional standards for safety professionals. Credit will not be awarded for both OSH 225 and FSE 225.

**OSH 261. Principles of Occupational Safety and Health. (3 Credits)**

A. Prerequisite and/or Corequisite: OSH 110. Formerly: OSH 361. History of the development of occupational safety and health. Methods of accident prevention and hazard control. Introduction to safety programs, worker's compensation, emergency preparedness and accident investigation. Credit will not be awarded for students who have credit for OSH 361 or FSE 361.

**OSH 262. Principles of Occupational Safety and Health Legislation. (3 Credits)**

A. Formerly OSH 362. B. Prerequisite or Co-requisite: OSH 261 Review of OSHA standards with emphasis on compliance and liability reduction. Discussion of OSHA regulations including citations, penalties, inspections, and record keeping. Credit will not be awarded for both OSH 262 and OSH 362.

**OSH 300. Safety Training Strategies. (3 Credits)**

I, II, and A. Formerly OSH 450. Prerequisite: OSH 261. Students will learn how to apply adult learning and technical training strategies to occupational training programs for management and workforce safety related topics. Credit will not be awarded for both OSH 450 and OSH 300.

**OSH 305. Hazardous Materials. (3 Credits)**

A. This course introduces students to the anticipation, recognition, evaluation management, and control of hazardous materials through focusing on applicable general industry standards 29 CFR 1910 Subpart H. Topics include HAZWOPER, Compressed Gasses, Flammable and Combustible Liquids requirements, and others.

**OSH 349. Applied Learning in Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. Credit will not be awarded for both FSE 349 and OSH 349.

**OSH 349A. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349B. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349C. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349D. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349E. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349F. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349G. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349H. Cooperative Study: Occupational Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 349J. Coop Study OSH. (1-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**OSH 350. Measures of Safety Performance. (3 Credits)**

A. Formerly OSH 200. Prerequisite: OSH 261. Strategies and methods for calculating, analyzing, interpreting and communicating safety performance data. Presents lagging and leading metrics of safety, quantitative and qualitative statistical techniques, descriptive and inferential statistics, correlations, and financial principles. Credit will not be awarded for both OSH 200 and 350.

**OSH 366. Hazard Identification and Control. (3 Credits)**

A. Prerequisite: OSH 261 with a grade of C or higher or departmental approval. Hands-on approach toward identification and control. Areas of study include noise levels, chemical and electrical hazards, air contaminants, and heat/cold stress. Control measures include administrative, engineering, and safeguarding methods. Credit will not be awarded for both OSH 366 and FSE 366.

**OSH 367. Human Factors in Occupational Safety. (3 Credits)**

(3) A. Prerequisite or Co-requisite: OSH 261. Focuses on ergonomics, man/machine interface and human efficiency. Study of work-related stress, psychological factors, and Cumulative Trauma Disorders. Solutions are reviewed for common problems found in labor-intensive operations. Credit will not be awarded for both OSH 367 and FSE 367.

**OSH 370. Process Safety Management. (3 Credits)**

I, II, and A. Prerequisite: OSH 366. This course is designed to introduce the occupational safety student to the process safety management standard, 29 CFR 1910.119, and cover complex management topics involved in managing processes of highly hazardous chemicals.

**OSH 379. Construction Safety. (3 Credits)**

A. An in-depth analysis of the federal and Commonwealth of Kentucky's OSHA requirements for construction safety. Credit will not be awarded for both OSH 379 and FSE 379.

**OSH 390. Workers Compensation. (3 Credits)**

A. Comprehensive study of workers' compensation. Topics range from coverage to claims, including in-depth study of the legal, no-fault, exclusive remedy nature of claims; underwriting and experience rating; business loss control measures; and loss control profession. Credit will not be awarded for both OSH 390 and FSE 390.

**OSH 410W. Safety Management Systems. (3 Credits)**

I, II, and A. Prerequisite: ENG 102, 105, or HON 102; OSH 261. This writing-intensive course is designed to provide the student with the knowledge and skills to apply safety management systems components, hazard analysis, and causal analysis. Credit will not be awarded for both OSH 410 and OSH 410W.

**OSH 412. Safety Management Systems. (3 Credits)**

A. Prerequisite or Co-requisite: OSH 410W (C). Effective management and leadership principles applied to safety. Emphasis on developing organizational culture, key roles of safety professionals and preventing serious injuries. Strategies include identifying business concepts for safety, gaining meaningful employee engagement, and program development. Credit will not be awarded for both OSH 412 and FSE 412.

**OSH 420. Environmental Law and Management. (3 Credits)**

I, II. Formerly FSE 420. Review/analysis of laws affecting workplaces, including the Clean Water Act, Clean Air Act, RCRA and CERCLA. Additionally, study of these laws and related policies/practices will be covered as related to safety. Credit will not be awarded to students who have credit for FSE 420 or EHS 425.

**OSH 450. Safety Training Strategies. (3 Credits)**

I, II, and A. Students will learn how to apply adult learning and technical training strategies to occupational training programs for management and workforce safety related topics.

**OSH 489. Topical Seminar. (1-3 Credits)**

I, II, and A. Development of special skills and content knowledge of contemporary issues in occupational safety. May be retaken to a maximum of six hours, provided the subject matter differs each time.

**OSH 495. Senior Capstone. (3 Credits)**

Prerequisite: OSH 410 or 410W with a grade of C or better. Students examine case studies, examine real life situations, combine knowledge they have gained from previous coursework, analyze and develop strategies, develop countermeasures, engage in strategic planning and policy development and training.

**OSH 498. Independent Study. (1-3 Credits)**

A. Prerequisite: Departmental approval. Individual reading and research on a problem or area within the field of Occupational Safety, after student consultation with the instructor. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours providing project title differs.

## OTS Occupational Therapy (OTS)

**OTS 101. Occupation Perspectives: Human Services. (3 Credits)**

A. An occupational science perspective of health and human service professions. Through lecture, active learning and community experiences, students will explore the themes of occupation, professional identity, reasoning, communication and diversity in professional responsibilities.

**OTS 205. Horse and Human Co-Occupation. (3 Credits)**

(3) A. Course provides information regarding the equine industry in connection with human health and wellness. Areas of focus include career directions, understanding horse/human co-occupation and equine movement in concert with human interaction.

**OTS 300. Foundation in Occupation I. (3 Credits)**

Prerequisites: Junior Standing and B.S in Occupational Science majors only. Foundational knowledge in occupational science and occupational therapy, including history, philosophy, theory, context, diversity, process, and reasoning. Emphasis on active learning and reasoning skills including information literacy of research.

**OTS 301. Practicum I: Concepts. (4 Credits)**

A. Prerequisites: BIO 171 or 307 and 301 or 308; and PSY 200. Corequisites: OTS 311 and 432. Concepts of occupational science and occupational therapy. Integrate knowledge of self as a creative and active occupational being through reflection and portfolio development.

**OTS 301Z. Practicum in Occ Therapy I. (3 Credits)****OTS 302. Practicum II: Life Narratives. (3 Credits)**

A. Prerequisites: OTS 301, 311, and 432 with a grade of (C) or better. Corequisites: OTS 313, 335 and 421. Introduction to life narratives as an assessment of occupation. Active learning experiences focusing on occupation across the lifespan including reflection and portfolio development.

**OTS 311. Self as Occupational Being. (3 Credits)**

A. Corequisites: OTS 301 & OTS 432. Analysis of occupation and occupational patterns of self. Recognize the influence of occupation on the well-being of self through active learning experiences.

**OTS 312. Occupation by Design. (3 Credits)**

I. Corequisites: OTS 401, 422 and BIO 271. Foundational problem solving, task, and activity analysis concepts related to designing occupations. Students apply strategies to implement a design process.

**OTS 313. Occupation in Diverse Contexts. (3 Credits)**

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Application of the constructs of context to understand the impact on occupation and health. Introduction to cultural awareness and diversity. Enhance understanding of ability and disability concerns in social and environmental contexts.

**OTS 321. Occupation Across the Lifespan. (3 Credits)**

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Observation and analysis of human development and participation in occupation across the lifespan. Content explores life-stage characteristics and contextual aspects as articulated in varied models and theories.

**OTS 322. Impact of Conditions on Occupation. (3 Credits)**

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Introduction to human occupation in the context of function and impairment. Content includes pathophysiological, behavioral, and developmental issues which have an impact on human occupation.

**OTS 330. Gender and Work in the U.S.. (3 Credits)**

Prerequisite: ENG 102 or 105 (B) or HON 102 or departmental approval. A survey view of occupational science and sociological constructs related to gendered work. Includes content on family work linkages, gendered organizations, and public policies in the workplace. Credit will not be awarded to students who have credit for OTS 480, WGS 380, or WGS 480.

**OTS 335. Professional Dynamics. (3 Credits)**

A. Corequisite: OTS 302. Analysis and application of communication skills necessary for becoming an effective team member. Emphasis on theories of group dynamics, leadership and professional interaction skills, decision making and conflict resolution through active learning.

**OTS 340. Foundations in Occupations II. (3 Credits)**

A. Prerequisite: OTS 300. junior standing and B.S in Occupational Science majors only. Further exploration of concepts of occupational science and how they inform occupational therapy practice. Occupation-based theories, models of practice, and frames of reference will be applied.

**OTS 360. Designing Occupations. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Foundational problem solving, task, and activity analysis concepts related to designing occupations for individuals and groups. Students design, implement and analyze individual and group activities. Emphasis on group dynamics and leadership.

**OTS 362. Kinesiology for Occupation. (3 Credits)**

A. Prerequisites: BIO 271; Junior Standing and B.S in Occupational Science majors only. Application of the physics of movement and biomechanical analysis for occupational performance. Includes evaluation procedures for muscle strength and range of motion.

**OTS 365S. Engagement and Advocacy for Elders. (3 Credits)**

(3) A, I, II. Supervised service learning opportunities to create and implement occupation-based programming at a community-based respite care program and to advocate for elders with Alzheimer's Disease. Credit will not be awarded for both OTS 365S and special topics course OTS.

**OTS 380. Gender and Work in the U.S.. (3 Credits)**

Cross-listed as OTS 380. Prerequisite: ENG 102 or 105(B) or HON 102 or departmental approval. A survey view of occupational science and sociological constructs related to gendered work. Includes content on family work linkages, gendered organizations, and public policies in the workplace. Credit will not be awarded to students who have credit for OTS 480, WGS 380, or WGS 480.

**OTS 400. Research Methods in OT I. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Introduction to research design and methods in OT; critical analysis of occupational science and occupational therapy research for evidence based practice.

**OTS 401. Practicum III: Diversity. (3 Credits)**

A. Prerequisite: OTS 302 with grade of C or better. Corequisites: OTS 312, 422 and BIO 271. Introduction to cultural competence and diversity. Enhance understanding of ability and disability concerns in society through interview, reflection and portfolio development.

**OTS 402. Practicum IV: Advocacy & Research. (3 Credits)**

A. Pre-requisite: OTS 401. Co-requisites: OTS 362, 430, and 478 or 478W. Participatory experiences in the application of advocacy, ethics, and research to advance health and wellness. Course includes self-reflection and portfolio completion. Credit will not be awarded to students who have credit for OTS 402S.

**OTS 402S. Practicum IV: Advocacy & Research. (3 Credits)**

(3) A. Pre-requisite: OTS 401. Corequisites: OTS362, 430, and 478 or 478W. Participatory experiences in the application of advocacy, ethics, and research to advance health and wellness. Course includes self-reflection and portfolio completion. Credit will not be awarded to students who have credit for OTS 402.

**OTS 410. Independent Study in Occupational Science. (1-3 Credits)**

(1-3) A. Student must have the independent study proposal approved by faculty supervisor and department chair prior to enrollment. Directed study on an area of interest in Occupational Science. May be retaken to a maximum of six hours.

**OTS 420. Neuroscience and Occupation. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Analyze how brain function is shaped by occupation. Understand the relationship among neuroscience concepts and occupational engagement evidence to support occupation-based interventions for clients with a variety of conditions.

**OTS 421. Occupation Across the Lifespan. (3 Credits)**

A. Co-requisite: OTS 302. Observation and analysis of participation in occupation across the lifespan. Content explores life-stage characteristics and contextual aspects as articulated by varied models and theories.

**OTS 422. Impact of Conditions on Occ. (4 Credits)**

A. Prerequisites: BIO 371. Corequisites: OTS 312, 401 and BIO 271. Introduction to human occupation and medical terminology in the context of disease and disability. Content includes pathophysiological, behavioral and developmental issues which have an impact on human occupation.

**OTS 430. Occupational Therapy Assessment. (3 Credits)**

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Overview of primary concepts related to the components of healthcare occupational assessments, intervention and documentation as an occupational therapy provider including observation, interview, standardized administration, interpretation and dissemination of results.

**OTS 432. Research in Occupation. (4 Credits)**

I, II. Prerequisite: STA 215. Co-requisites: OTS 301 & OTS 311. Students will learn to be consumers and participants in qualitative and quantitative research, examine methods of research design, data collection, and prepare a research prospectus related to occupational science. Apply statistical methods to the study of occupation.

**OTS 435. OT Professional Seminar. (2 Credits)**

Seminar course in which students will discuss and debate health issues related to practice. Concepts of position statements, strategic planning, and self-directed learning will be emphasized.

**OTS 440. Research Methods in OT II. (3 Credits)**

A Prerequisites: OTS 400, Junior Standing and B.S in Occupational Science majors only. Application and analysis of research methods in OT; critical analysis of occupational science and occupational therapy research for evidence based practice.

**OTS 450. OBP. Orthopedics. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Evaluation and intervention of clients with orthopedic diagnoses. Applying prevention, compensation, and remediation including transfers, orthotics, and assistive technology to support occupational performance.

**OTS 460. OBP. Older Adults. (3 Credits)**

A Prerequisites: Junior Standing and B.S in Occupational Science majors only. Evaluation and intervention related to the health of older adult clients in community, home, and medically-based contexts including cognition, vision, and behavioral health to support occupational performance.

**OTS 470S. Advocacy and Ethics in OT. (3 Credits)**

A. Prerequisites: Junior Standing and B.S in Occupational Science majors only. Participatory experiences in the application of advocacy and ethics through supporting evidence to advance occupational justice, health and wellness within the community. Some travel within the community and the Commonwealth is required.

**OTS 475. Special Topics in Occup Scien. (1-3 Credits)**

A. Prerequisite: permission of department. May be retaken under different subtopics for a total of 6 credits. Advanced study of selected topics in occupational science.

**OTS 478. Health Care Delivery Systems. (3 Credits)**

(3) A. Corequisites: OTS362, OTS 402 or 402S, and 430. an introduction to the history of health care systems, models of health care, and contemporary health policy issues and trends. Includes content on financing health care, health care professional roles and ethics. Credit will not be awarded for both OTS 478 and OTS 478W.

**OTS 478W. OT in Health Care Systems. (3 Credits)**

A. Prerequisite: ENG 102 or 102R, 105(B), or HON 102. An introduction to the history of health care systems, models of health care, and contemporary health policy issues and trends. Includes content on financing, professional roles, and ethics related to health care.

**OTS 479. Equine Assisted Activity. (3 Credits)**

A. Explores equine assisted activity, therapeutic horseback riding, equine facilitated mental health, and hippotherapy. Content includes supervised service learning experiences with individuals of varying ages and conditions in a horse-related environment.

**OTS 479S. Equine Assisted Activity. (3 Credits)**

A. Explores equine assisted activity, therapeutic horseback riding, equine facilitated mental health, and Hippotherapy. Content includes supervised service learning experiences with individuals of varying ages and conditions in a horse related environment. Credit will not be awarded for both OTS 479 and 479S.

**OTS 499. Constructs of Occupation. (6 Credits)**

A. Prerequisite: undergraduate degree, BIO 307 and 308; PSY 200 and STA 215 or 270. Synthesis of occupational constructs as they apply to self and others. Emphasis on occupation across the lifespan, design, and analysis. Portfolio development emphasizes occupation theme.

**OTS 515. Early Child Sensorimotor Development. (3 Credits)**

A. Provides an overview of normal sensorimotor development in infants and young children. Includes contrasting normal/ abnormal development and application of appropriate developmental tasks. Laboratory experiences will be provided.

**OTS 520. Providing Health Services in Appalachia. (3 Credits)**

A. Cross listed as APP 520. Prerequisite: departmental approval. An analysis of development and delivery of health care services in Appalachia. Examination of relevant current and historical factors which have an impact on the health of Appalachian people. Credit will not be awarded to students who have credit for APP 520.

**OTS 715. Early Child Sensorimotor Devel. (3 Credits)**

A. Prerequisite: education major or degree or instructor's approval. Provides an overview of normal sensorimotor development in infants and young children. Includes contrasting normal/ abnormal development and application of appropriate developmental tasks. Laboratory experiences will be provided.

**OTS 720. Provid Hlth Serv in Appalachia. (3 Credits)**

A. Prerequisite: departmental approval. An analysis of development and delivery of health care services in Appalachia. Examination of relevant current and historical factors, which have an impact on the health of the Appalachian people.

**OTS 800. OBP: Early Childhood. (3 Credits)**

(3) A. Evaluation and intervention related to occupational performance for individuals accessing health and education systems ages 0-5. Theory driven and client centered practices for supporting occupational performance.

**OTS 804. Practice Experience Prep I. (3 Credits)**

A. Preparation for Level II fieldwork, Applied Leadership Experience and Capstone.

**OTS 805. Practice Experience Prep II. (3 Credits)**

A Pre-req: OTS 804 and successful completion of Level II FW. Preparation for Applied Leadership Experience and Capstone.

**OTS 810. OBP: Children and Youth. (3 Credits)**

(3) A. Evaluating and intervention related to occupational performance in children ages 5-21 accessing health and education systems. Theory driven and client centered practices for supporting occupational performance.

**OTS 815. OBP: Neurological. (3 Credits)**

A. Evaluation and intervention related to preventing and remediating neurologic diagnoses. Theory driven and client centered practices for supporting occupational performance.

**OTS 820. OBP: Fundamentals. (4 Credits)**

(4) A. Corequisite: OTS 821. Foundational knowledge in occupation-based practice including philosophy, theory, context, process, and reasoning. Emphasis on active learning and reasoning skills.

**OTS 821. Level I OT Experience. (3 Credits)**

A. Integration and application of foundational knowledge of occupation-based practice through participation in varied practice experiences across a continuum of care. May be retaken to a maximum of 9 hours.

**OTS 822. OBP: Health Care Practice 1. (4 Credits)**

A. Corequisite: OTS 821. Lecture and lab to include theories, principles and methods of evaluation, intervention and outcome processes for individuals accessing health systems. Course will focus on engagement in occupation to support participation in life roles across the lifespan.

**OTS 824. OBP: Health Care Practice 2. (4 Credits)**

A. Prerequisites: OTS 821 and OTS 822. Continued study of theories, principles and methods of evaluation, intervention and outcome processes for individuals accessing health systems. Course will focus on engagement in occupation to support participation in life roles across the lifespan.

**OTS 825. technology and Rehabilitation. (3 Credits)**

A. Prerequisite: computer literacy or departmental approval. Advanced exploration of occupational therapy knowledge and skill about assistive technology. Emphasis on application and use of assistive technology to enhance occupational performance of individuals with disabilities.

**OTS 830. OBP: Education Communities. (4 Credits)**

A. Prerequisites: OTS 824 and OTS 832. Corequisite: OTS 871. Occupation-based assessment and intervention for children and young adults in educational contexts. Course addresses models of practice, service delivery, federal/state legislation and philosophy of administration. Active learning experiences in the community.

**OTS 831. Practice Seminar II. (2 Credits)**

A. Prerequisite: OTS 821 or Corequisites: OTS 824 and OTS 832. Integration of occupation-based practice through reflection on curriculum themes, participation in community-based settings, preparation for Level II Fieldwork and ongoing development of a professional portfolio.

**OTS 832. OBP: Community-Based Practice. (4 Credits)**

A. Corequisite: OTS 831. Theories, principles and methods of evaluation, intervention and outcome processes for individuals and groups assessing social systems through the lifespan. Course will focus on engagement in occupation for community participation.

**OTS 834. OBP: Advanced Dimensions. (3 Credits)**

A. Prerequisite: permission of department. Advanced conceptualization and synthesis of Occupational Science and existing models of Occupational Therapy for practice. Includes analysis and application of occupation-based practice and evidence within specialty areas.

**OTS 835. OT Intervention in Workplace. (3 Credits)**

I, II, A. Prerequisite: OTS 820 or departmental approval. Exploration of the direct and indirect service roles and functions of the occupational therapist in the workplace. Emphasis will be on the work-related behaviors and environmental assessments for health promotion, prevention and work adjustment.

**OTS 836. OBP: Optimizing Occupation. (3 Credits)**

A. Prerequisite: graduate standing in the occupational therapy program; OTS 822, and 832. Specialized evaluation and intervention in occupational therapy practice with emphasis on emerging practice areas. Students will synthesize and apply skills of best practice for optimizing occupations.

**OTS 837. UE Evaluation & Intervention. (3 Credits)**

A. Prerequisite: OTS 822 or departmental approval. This course focuses on advanced study of the upper extremity including evaluation and treatment techniques in evidence-based occupational therapy practice.

**OTS 840. OBP: Mental Health. (3 Credits)**

A Evaluation and intervention related to mental health conditions: Neurocognitive, psychosocial, and behavioral. Theory driven and client centered practices for supporting occupational performance.

**OTS 845. Health Care Practice Fieldwork. (6 Credits)**

A. Prerequisite: Successful completion of all didactic coursework or department approval. Twelve weeks of fieldwork in health care practice to promote systematic evaluation; diagnose occupational performance deficits; develop and implement intervention plans based on occupational profiles and evidence; measure client outcomes; and document findings.

**OTS 846. Community Practice Fieldwork. (3-5 Credits)**

I. Prerequisite: Successful completion of all didactic coursework. Six to ten-week fieldwork in community/education to promote systematic evaluation; diagnose occupational performance deficits; develop and implement intervention plans based on occupational profiles and evidence; measure client outcomes; and document findings.

**OTS 846S. Early Childhood Practice. (3 Credits)**

Prerequisite: OTS820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes therapeutic interventions in early childhood through service learning.

**OTS 847. Emerging Practice Fieldwork. (1-3 Credits)**

Prerequisite: Successful completion of all didactic coursework. Two to six week fieldwork in an emerging or traditional practice settings to develop/refine skills. Includes online reflective seminar.

**OTS 850. Management Principles for OT. (3 Credits)**

A. Principles of supervision, collaboration, strategic planning, and developing, funding, and managing an occupational therapy practice.

**OTS 851. Strategic Communication in OT. (3 Credits)**

A. Prerequisite: undergraduate/graduate course in administration or consent of instructor. Study of change theory and factors affecting communication in practice settings.

**OTS 852. OT Serv in Mental Hlth Setting. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Examination of external forces influencing mental health services and models of occupational therapy service delivery, emphasizing community-based and rural health programs.

**OTS 853. Leadership in Human Services. (3 Credits)**

A. Advance ethical leadership skills through development and application of current leadership theory to become a change agent to positively impact the profession.

**OTS 855. Role of OT & the Aging Adult. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of occupational therapy's role in delivering services to the aging adult in emerging/innovative programming. Identification and analysis of factors which promote/hinder quality of life.

**OTS 855S. Role of OT & the Aging Adult. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of occupational therapy's role in delivering services to the aging adult in emerging/innovative programming. Identification and analysis of factors which promote/hinder quality of life. Credit will not be awarded for both OTS 855 and 855S.

**OTS 860. OBP. Emerging Practice. (3 Credits)**

A. Evaluation and intervention related to emerging areas of occupational therapy practice, including assistive technology. Theory driven and client centered practices for supporting occupational performance.

**OTS 862. Thera. Modalities in OT Pract. (3 Credits)**

Addresses occupational therapy theoretical principles, neurophysiological and electrophysical changes that occur as a result of the application of selected physical and electrical modalities. Students will develop skill in the application of these modalities.

**OTS 863. Occupation & Sensory Process. (3 Credits)**

A. Understanding the impact of sensory processing disorders on occupational natures will enable students to provide appropriate intervention. Occupational adaptation and sensory integrative theories will be applied as conceptual frameworks for occupational therapy intervention.

**OTS 864. Early Childhood Practice. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes the interdisciplinary nature of therapy service delivery in the early childhood.

**OTS 864S. Early Childhood Practice. (3 Credits)**

(A) Prerequisite: OTS 820 or departmental approval. Advanced study of theories, models of practice, and therapeutic approaches in early intervention and preschool environments within the context of state and federal laws. Emphasizes therapeutic interventions in early childhood through service learning.

**OTS 865. School-based Practice. (3 Credits)**

A. Prerequisite: Departmental approval. In-depth study of school-based therapy. Theories, principles, models of practice, and methods of therapy service delivery for students with learning and behavioral difficulties, within the context of state and federal laws.

**OTS 866. OT & Behavior Disorder in Sch. (3 Credits)**

A. Prerequisite: OTS 820 or departmental approval. Examination and application of occupational therapy theoretical models used in evaluation and intervention for this population and the external systems affecting service delivery.

**OTS 870. Profess Trends & Issues in OT. (3 Credits)**

I, II. Trends and issues impacting the occupational therapy profession. Advancement of professional roles of consultant, entrepreneur, educator, leader and researcher.

**OTS 871. Practice Seminar III. (2 Credits)**

A. Corequisite: OTS 830. Integration of occupation-based practice through reflection on curriculum themes, participation in community-based learning in education, preparation for Level II Fieldwork and completion of a professional portfolio.

**OTS 871S. Professional Seminar II. (3 Credits)**

A. Students assume leadership in learning communities, complete professional portfolios and participate in professional learning experiences. Credit will not be awarded for both OTS 871 and OTS 871S.

**OTS 875. Special Topics: \_\_\_\_\_ (1-3 Credits)**

Advanced study of selected topics in occupational therapy practice.

**OTS 880. Res in Occupational Therapy. (3 Credits)**

I, II, A. Exploration, critical analysis and application of research and evidence-based practice in occupational therapy. Emphasis on preparation and implementation of a research study.

**OTS 882. Advanced Occupational Science. (3 Credits)**

II. Exploration of occupational science as a disciplinary knowledge base, current research on occupation-based practice, and methods of developing occupation-based practice. Emphasis on change, clinical leadership and research.

**OTS 883. Change and Complexity in OBP. (3 Credits)**

A. Comprehensive critique of disciplinary literature describing professional applications of occupation. Deriving insights into occupation-based practice (OBP) through perspectives from history, systems, chaos, change, and complexity. Action and change research methods for the development of occupation-based practice.

**OTS 884. Qualitative Inquiry Approaches. (3 Credits)**

A. Prerequisite: Undergraduate course in research design. This course synthesizes the rationale, theoretical foundations, design, methods, analysis, and ethical issues related to qualitative research. Students analyze five approaches of qualitative inquiry, and develop a research prospectus.

**OTS 885. Occupational Perform. Measures. (3 Credits)**

A. Prerequisite: OTS 880 and occupational therapy graduate status or departmental approval. Analysis of clinical evaluation instrumentation. Review of measurement issues and use of instruments in evidence-based practice in occupational therapy. Integration into occupation-based practice.

**OTS 886. Culture and Diversity in OT. (3 Credits)**

A. Importance of culture and diversity in the understanding of health disparities in health care policy and OT practice. Global and national policy and program models for inclusion of culture, diversity and disability are highlighted.

**OTS 890. Independent Study in OT. (1-3 Credits)**

I, II, A. Prerequisite: advisor/departamental approval. Student initiated directed study. Regular consultation with faculty supervisor and final paper required. May be retaken under different subtopics to a cumulative maximum of six hours. Approval of independent study proposal by faculty supervisor and department chair must occur prior to enrollment.

**OTS 895. OT Research Project I. (3 Credits)**

(3) A Development and initiation of a research project as part of a research team. Application of critical thinking and clinical reasoning skills to investigate occupational science and occupational therapy research inquiries.

**OTS 896. Research Project II. (3 Credits)**

A. Prerequisite: OTS 895. Completion of a research project as part of a research team. Application of critical thinking and clinical reasoning skills to investigate occupational science and occupational therapy research inquiries and disseminate results.

**OTS 898. Thesis I. (3 Credits)**

I, II, A. Proposal development leading to thesis as directed by chair of thesis committee.

**OTS 899. Thesis II. (3 Credits)**

Research leading to thesis as directed by chair of thesis committee.

**OTS 899C. Thesis/Project Continuation. (1-3 Credits)**

I, II, A. Prerequisite: advisor/departamental approval. Continuation of research leading to thesis/ special project as directed by the chair of student's committee. May be retaken as necessary to complete research. May not be used to satisfy degree program requirements.

**OTS 901. OTD Leadership Seminar I. (3 Credits)**

A. Prerequisite: Enrollment in OTD Program. Foundational work for development of OTD capstone and Applied Leadership Experience. Conceptualize identity as a leader for change. Develop methods to assess population needs to improve occupation-based programming.

**OTS 902. OTD Leadership Seminar II. (3 Credits)**

A. Prerequisite or Corequisite: OTS 901. Explore options for professional development and leadership experiences. Assess population needs to support occupation-based programming.

**OTS 903. Capstone I: Project Developmnt. (3 Credits)**

(3) Prequisite: OTS 902. Design capstone project based on needs assessment, literature synthesis, and professional goals to serve as a change agent for occupation-based programming. Capstone emphases are ethical leadership within change and OBP for diverse populations.

**OTS 904. Capstone II: Implmt and Eval. (3 Credits)**

(3) A. Prerequisite: OTS 903. Implement capstone project. Evaluate capstone project outcomes to assess change in occupation-based programming.

**OTS 905. Applied Leadership Experience. (3-6 Credits)**

(3-6) I, A. Prerequisites: OTS 805 or 902. Custom-designed field-based experiences in the Occupational Therapy Doctorate. Emphases are on ethical leadership within change and excellence in occupation-based services for diverse populations.

**OTS 906. OTD Capstone. (1-3 Credits)**

A. Prerequisite: OTS 805 or 904. Integration and application of program outcomes through reflection on Applied Leadership Experience and completion of the capstone project and portfolio. Students present capstone project.

**OTS 910. Policy and Advocacy for OT. (3 Credits)**

(3) A. Analysis of social and healthcare policy on the profession of occupational therapy. Program development to address health disparities, and advocacy needs in emerging practice.

**OTS 911. Applied Research for OT. (3 Credits)**

(3) I. Students will apply research methods, synthesize, paradigms, design, methods, and ethical issues related to research, and discuss funding options. The role of the researcher as an agent of change in practice will be emphasized.

**OTS 912. Evidence-based Practice for OT. (3 Credits)**

(3) II. Evaluate and perform critical research appraisals to justify intervention decisions. Content focuses on: Clinical Reasoning, outcomes measurement, finding evidence, changes in practice, ethics, and communicating evidence-based decisions to stakeholders.

**OTS 913. Educational Practices for OT. (3 Credits)**

(3) I. Prerequisite: Enrollment in the OTD Program. Fundamental principles of designing and implementing educational programs across the lifespan. Educational strategies and learning theories will be analyzed and applied to clinical, community, and didactic settings and populations.

## PGM Professional Golf Mgmt (PGM)

**PGM 100. PGA Playing Ability Test. (0 Credits)**

(0) A. Prerequisite: Consent of advisor. Exit requirement for Professional Golf Management option of the MArketing B.B.A. program. Registration in PGM 100 is required of all B.B.A. Marketing/PGM Option students for the term in which they wish to take their comprehensive exam.

**PGM 101. Orientation. (0.5 Credits)**

I, II. PGM 101 introduces students to the components of a PGA Golf Management education, the golf industry, the role of a PGA member; the organizational structure of the PGA of America, and the Rules of Golf. (For Marketing Majors PGM concentration Only.)

**PGM 199. PGA Education Level 1. (0 Credits)**

A. Prerequisite: Consent of advisor. Exit requirement for Professional Golf Management option of the Marketing B.B.A. program. Registration in PGM 199 is required of all undergraduate B.B.A. Marketing/PGM Option students for the the term in which they wish to take their comprehensive exam.

**PGM 299. PGA Education Level 2. (0 Credits)**

(0) A. Prerequisite: Consent of advisor. Exit requirement for Professional Golf Management option of the Marketing B.B.A. program. Registration in PGM 299 is required of all undergraduate B.B.A. Marketing/PGM Option students for the term in which they wish to take their comprehensive exam.

**PGM 349. Applied Learning in PGA/Professional Golf Management. (0.5-1 Credits)**

A. Prerequisites: minimum GPA 2.25 and admission to PGM. Transfer students are eligible after one semester on campus. Co-curricular work experience under PGM staff and field supervisors. The student is assigned duties and responsibilities approved by PGM Program Coordinator or Director of PGA/PGM and the PGA member on-site. A contract outlining student responsibility is required and must be signed by the student, supervising professional, and a PGM staff member prior to placement. A maximum of five credit hours may be applied toward major.



**PGM 349M. Cooperative Study: PGA Golf Management. (0.5-1 Credits)**

A. Prerequisites: minimum GPA 2.25 and admission to PGM. Transfer students eligible after one semester on campus. Co-curricular work experience under PGM staff and field supervisors. The student is assigned duties and responsibilities approved by PGM Program Coordinator or Director of PGA/PGM and the PGA member on-site. A contract outlining student responsibility is required and must be signed by the student, supervising professional, and a PGM staff member prior to placement. A maximum of five credit hours may be applied toward major.

**PGM 349N. Cooperative Study: PGA Golf Management. (0.5-1 Credits)**

A. Prerequisites: minimum GPA 2.25 and admission to PGM. Transfer students are eligible after one semester on campus. Co-curricular work experience under PGM staff and field supervisors. The student is assigned duties and responsibilities approved by PGM Program Coordinator or Director of PGA/PGM and the PGA member on-site. A contract outlining student responsibility is required and must be signed by the student, supervising professional, and a PGM staff member prior to placement. A maximum of five credit hours may be applied toward major.

**PGM 399. PGA Education Level 3. (0 Credits)**

Prerequisite: Consent of advisor. Exit requirement for Professional Golf Management option of the Marketing B.B.A. program. Registration in PGM 399 is required of all undergraduate B.B.A. Marketing/PGM Option students for the term in which they wish to take their comprehensive exam.

**PGM 499. PGA Final Experience. (0 Credits)**

(0) A. Prerequisite: Consent of advisor. Exit requirement for Professional Golf Management option of the MArketing B.B.A. program. Registration in PGM 499 is required of all undergraduate B.B.A. Marketing/PGM Option students for the term in which they wish to take their comprehensive exam.

## PHE Physical Education (PHE)

**PHE 190. Wellness Experience:\_\_\_\_\_ (1-2 Credits)**

I, II. Formerly HPR 190. Wellness activities of current interest and/or need for students. May be retaken to a maximum of six hours, if subtitles are different. Credit will not be awarded to students who have received credit for HPR 190.

**PHE 200. Dance and Culture. (3 Credits)**

I. Introduction to dance and its role as a non-verbal means of expression. The course examines several dance forms and their cultural context including folk, social, ethnic, entertainment, and dance as an art form. Gen. Ed. Element 3A.

**PHE 201. Foundations of Sport Science. (3 Credits)**

I, II. Introduction to the profession, exposure to professional standards in the field, and historical perspective and philosophies in physical education and sports science.

**PHE 212. Care & Prev of Ath & Exer Inju. (3 Credits)**

I, II. Overview of the mechanism, prevention, management, and rehabilitation of athletic and exercise injuries.

**PHE 220. Team Sports I. (2 Credits)**

I. Basic skills, strategy, rules, officiating, and teaching techniques related to various team sports.

**PHE 224. Team Sports II. (3 Credits)**

I, II. Prerequisite: Open only to majors in Physical Education, Sports Management, those who have declared a coaching minor, coaching/personal training certificate, or those with departmental approval. Basic skills, strategy, rules, officiating, and teaching techniques related to basketball, volleyball, soccer, and track and field.

**PHE 230. Social Dance I. (1 Credit)**

I, II. This course introduces the basic movement concepts of social dancing. Rhythm, style and variations of several popular social dances are covered as well as leading and following skills. Some of the dances covered include: swing, salsa, merengue, tango, waltz and hustle.

**PHE 241. Swimming and Water Safety. (1 Credit)**

A, I, II. Beginning Swimming or instructor approval. Develop swimming skills and endurance to intermediate level; study of fundamental mechanical principles; basic safety skills; ability to conduct a variety of aquatic activities.

**PHE 250. Modern Dance I. (1 Credit)**

I, II. A beginning level modern dance technique class designed to introduce the student to basic modern dance skills and concepts including some improvisation and choreographic skills. No prior dance experience is necessary. May be retaken up to a maximum of 3 hours.

**PHE 261. Coaching Baseball and Softball. (2 Credits)**

I, II. Theory and practice in coaching the fundamentals of baseball and softball; team offense and defense.

**PHE 271. Ballet I. (1 Credit)**

A. A beginning ballet class designed to introduce the student to the art of ballet. Basic barre, center floor and across the floor combinations are performed. Ballet history and terminology are covered through the textbook readings and videos.

**PHE 300. Dance Activities in the School. (3 Credits)**

II. Teaching creative and social forms of dance in the educational and recreational setting.

**PHE 301. Foundations of Coaching. (3 Credits)**

I, II. Coaching communication, organization, motivational skills, sports skills, tactics, and philosophy. American Sport Education Program (ASEP) certification awarded to those who qualify.

**PHE 305. Individual and Dual Sports I. (3 Credits)**

I, II. Prerequisite: Open only to majors in Physical Education or Sport Management, those who have declared a Coaching minor, Coaching/Personal Training Certificate, or those with departmental approval. Basic skills, strategy, etiquette, rules, and teaching techniques related to tennis, golf, and badminton.

**PHE 306. Individual & Dual Sports II. (3 Credits)**

A. Basic skills, strategy, etiquette, rules, and teaching techniques related to archery, bowling, and racquetball.

**PHE 310. Physical Act & Child Developme. (3 Credits)**

II. Prerequisite: EDF 219 or 219W with a minimum grade of "C". Understanding of motor development and the improvement of human movement through developmental movement activities which are basic to readiness for performance at school.

**PHE 313. Lifeguard Training. (2 Credits)**

I, II. Prerequisite: ability to pass American Red Cross swimming test. Advanced technique of water safety and rescue; American Red Cross certification awarded to those who qualify.

**PHE 315. Phy Fitness Concepts & Applica. (3 Credits)**

(3) I, II. Prerequisite: Open only to majors in Physical Education or those with departmental approval. Discussion, demonstration, practice of fitness concepts and various methods of developing physical fitness.

**PHE 320. Biomechanics. (3 Credits)**

I, II. Prerequisite: BIO 171. Qualitative study of human movement through anatomical, physiological, and biomechanical concepts; analysis and application.

**PHE 322. Legal Issues in Sport. (3 Credits)**

I. Prerequisite: GBU204. Legal issues involved in the supervision, management, and business operations of sport. A critical perspective of the American legal system as it applies to sport.

**PHE 323. Movemt Concepts & Skill Themes. (3 Credits)**

I. Prerequisites: physical education major, CED 100 and EDF 203. Motor skill themes and movement concepts required for planning and teaching the appropriate sequence and scope for achievement of learner outcomes through elementary physical education.

**PHE 324. Policy and Governance in Sport. (3 Credits)**

I. Designed to encourage students to integrate management theory with governance and policy development. Provides an overview of the sport industry from the perspective of the sport management professional.

**PHE 325. Physiology of Activity. (3 Credits)**

I, II. Prerequisite: BIO 301. Effects of physical activities on various systems of the human body.

**PHE 327. Sport in American Society. (3 Credits)**

II. Impact of sport in American society with attention to relationship of political, economic, ethnic, and institutional forces operating within the phenomenon of sport.

**PHE 328. Sport Finance. (3 Credits)**

II. Course will examine all aspects of successful sport business operations, including budgeting, legal issues, marketing, competitive positioning, regulatory compliance, and strategies for success in sport and recreation industry.

**PHE 330. Social Dance II. (1 Credit)**

A. This course will build on skills learned in Social Dance I. New dances covered will include: Triple Swing, West Coast Swing, Bolero, Samba and Quickstep. More variations will also be introduced for dances learned in Social Dance I.

**PHE 340. Adv Swim for Fit/Water Safety. (3 Credits)**

I, II. Prerequisite: proficient swimming ability. For excellent swimmers, this American Red Cross course will train students to become certified swimming instructors. Course consists of lecture, lab, technique instruction, and practice teaching. WSI certification for those who qualify.

**PHE 345. Dance Choreography. (2 Credits)**

II. Basics of dance choreography, applicable to entertainment and art forms of dance.

**PHE 349. Co-op or Appl Lrn: Physical Ed. (0.5-8 Credits)**

A. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**PHE 349A. Cooperative Study. (0.5-8 Credits)**

A. Work in a cooperative placement related to student's academic studies. Satisfactory (S) or Unsatisfactory (U) grade. May be retaken to a maximum of eight hours. A minimum of 80 hours work required for each semester hour credit.

**PHE 349B. Cooperative Study. (0.5-8 Credits)**

Work in a cooperative placement related to student's academic studies.

**PHE 349C. Cooperative Study. (0.5-8 Credits)**

Work in a cooperative placement related to student's academic studies.

**PHE 350. Modern Dance II. (1 Credit)**

A. An intermediate level Modern Dance technique class including floor, center floor and across the floor dance combinations. The course is designed to help the student improve his/her alignment, technique, improvisation and choreographic skills.

**PHE 355. Ethnic Dance Forms. (1 Credit)**

A. A beginning/intermediate dance class in a particular ethnic form of dance. Basic steps and rhythms characteristic of the dance form will be learned as well as information about the culture from which it is derived.

**PHE 360. Coaching Basketball. (2 Credits)**

I, II. Theory and practice in coaching the fundamentals of basketball; team offense and defense.

**PHE 361. Coaching Volleyball. (2 Credits)**

I, II. Theory and practice in coaching the fundamentals of volleyball; team offense and defense.

**PHE 362. Coaching Track and Field. (2 Credits)**

II. Theory and practice in coaching fundamentals involved in track and field.

**PHE 365. Gymnastics. (2 Credits)**

I, II. Knowledge and skills required for teaching gymnastics skill themes and movement concepts.

**PHE 370. Practicum in Physical Educatio. (1-3 Credits)**

I, II. Overview of physical education teaching through consultation and application; students will experience teaching-learning situations by assisting with various curricular programs. May be retaken to a maximum of three hours.

**PHE 383. Sports Officiating. (1 Credit)**

I, II. Technique and skill of officiating, structure of officiating, and relationship between performance, behavior, and the official's duties.

**PHE 390. Lifetime Activity Series:\_\_\_\_. (0.5-2 Credits)**

I, II. Formerly HPR 390. A series of activities suitable for participation throughout life. Includes rules, skills, techniques, and strategies. May be retaken to a maximum of four hours toward graduation requirements. Credit will not be awarded to students who have received credit for HPR 390.

**PHE 400. Mgt of Sport Organizations. (3 Credits)**

I, II. Aspects of sport management including disciplinary foundations of sport, theoretical and applied foundations of organization and management, opportunities available in various segments of the sport industry, and professional preparation and development.

**PHE 407. Strength & Conditioning Prg. (3 Credits)**

I, II. Advanced skills in developing, implementing, and evaluating strength training programs. Knowledge of strength and resistance training, spotting techniques, and safety techniques, exercises and associated anatomy, periodization, and general guidelines for all fitness levels and ages.

**PHE 415. Outdoor & Lifelong Motor Activ. (3 Credits)**

II. Prerequisites: EDF 103, 203. Knowledge and skills needed to conduct cooperative, leisure, adventure, and outdoor motor activities for achievement of important personal and educational goals in the school system.

**PHE 418. Dance Science. (3 Credits)**

A. Application of functional anatomy, basic physiology and physics to dance movement. Offers knowledge base for teachers to instruct safe and effective dance classes and prevent injury. Requirement for Dance Certification.

**PHE 420. Coaching Football. (2 Credits)**

I, II. Theory and practice in coaching the fundamentals of football; team offense and defense.

**PHE 423. Psychology of Coaching. (3 Credits)**

I. Study of the dynamics of coaching including performance enhancement and understanding the functions of the coaching process.

**PHE 430. Fitness Program Administration. (3 Credits)**

I. Prerequisites: PHE 320, 325, and 407 with a grade of C or better. Students will learn aspects of fitness and wellness program administration, including management skills, budgeting, member tracking, promotion, and record keeping. Additionally, students will be introduced to electrocardiography.

**PHE 433. Adult Physical Fitness Program. (3 Credits)**

II. Prerequisites: BIO 171, 301, PHE 325 and junior standing. Practice and study of exercise programs meeting the guidelines of the American College of Sports Medicine (ACSM) for improving body composition and cardiovascular-respiratory function in adults.

**PHE 435. Group Fitness Instruction. (3 Credits)**

I. Prerequisites: PHE 320 and 325. A methods class for teaching group fitness classes. Students will learn movement and rhythmic fundamentals, effective teaching methods, how to develop appropriate and creative choreography, injury prevention, marketing techniques, and legal issues involved in starting and running a group exercise class.

**PHE 450. Modern Dance III. (1 Credit)**

I, II. An advanced level modern dance technique class including floor, center floor and across the floor dance combinations. The course is designed for the dancer that has had several years of dance training and is prepared for more challenging and complex dance skills. May be retaken to a maximum of three hours.

**PHE 467. Skill Acquisition. (3 Credits)**

I. Practical application of principles of learning and performing motor skills taught in the physical activity environment and the influence of historical events on research in the area of skill acquisition.

**PHE 470. Internship: Sport Management. (1-6 Credits)**

A. Prerequisite: 2.0 GPA, completion of sport management core and supporting courses. Students are required to document a minimum of 50 hours of sport management related experiences prior to enrollment in PHE 470. Supervised experiences in the directing of sports and physical activities in various settings. May be retaken to a maximum of six hours.

**PHE 471. Practicum in Teaching Dance. (3 Credits)**

A. Practical experience creating lesson plans and teaching dance in the P-12 school system. Practicum students will teach primary, elementary, middle and secondary students, dance as an art form along with ethnic, folk and social dance. Required for Dance Certification.

**PHE 472. Internship: Wellness. (1-6 Credits)**

A. Prerequisite: 2.0 GPA; completion of physical education core courses and physical fitness and wellness option courses. Students are required to document a minimum of 50 hours of physical fitness and wellness related experiences prior to enrollment in PHE 472. Supervised experiences in the directing of wellness and physical fitness activities in various settings. May be retaken to a maximum of six hours.

**PHE 485. Independent Study. (1-3 Credits)**

I, II. Individual work on a physical education related problem in supervised situation. Restricted to undergraduate physical education major or minor student. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**PHE 490. Experiences in Research. (1-3 Credits)**

(1-3) I,II. Prerequisites: ATR 100 or PHE 201 and departmental approval. Directed research experience in athletic training, physical education or sports management. May be retaken to a maximum of 9 hours. Students must have research proposal form approved by faculty supervisor and department chair prior to enrollment.

**PHE 517. Bioenergetics & Physical Actv. (3 Credits)**

A. Prerequisite: Junior/senior standing in major or with departmental approval. Study of bioenergetics processes and the relationship to energy storage, transformation and utilization in biological systems. Study of energy metabolism during different physiological conditions and the applications to clinical exercise science and sport.

**PHE 530. Sports Information Programs. (3 Credits)**

II. Study of the role and function of the sports information director. Includes public relations techniques applied to sports information; press releases, publications programs, office and staff organization, time utilizations, news media, and formats.

**PHE 562. Adapted Physical Activity. (3 Credits)**

I, II. Principles and practices of adapted physical education emphasizing the needs of people with disabilities. Emphasis will be placed on the importance of physical activity, recent legislation, assessments, individual education plans, and adapting activities.

**PHE 575. Tests & Measurements in P E. (3 Credits)**

I, II. Administration and scoring of tests; evaluation of use of results obtained.

**PHE 590. Special Topics in Physical Edu. (1-4 Credits)**

Study of various topics in physical education and sport selected to meet special student needs and interests.

**PHE 717. Bioenergetics & Phy Activity. (3 Credits)**

(3) A. Study of bioenergetics processes and the relationship to energy storage, transformation and utilization in biological systems. Study of energy metabolism during different physiological conditions and the applications to clinical exercise science and sport.

**PHE 730. Sports Information Programs. (3 Credits)**

I. Study of the role and function of the sports information director. Includes public relations techniques applied to sports information; press releases, publications programs, office and staff organization, time utilizations, news media, and formats.

**PHE 762. Adapted Physical Activity. (3 Credits)**

I, II. Principles and practices of adapted physical education emphasizing the physical activity needs of people with disabilities. Emphasis will be placed on the importance of physical activity, recent legislation, assessments, individual education plans, and adapting activities.

**PHE 775. Tests & Measurements in P E. (3 Credits)**

I, II. Administration and scoring of tests, evaluation and use of results obtained.

**PHE 790. Special Topics in Phys Educat. (1-4 Credits)**

A. Study of various topics in physical education and sport selected to meet special student needs and interests. May be retaken to a maximum of six hours with advisor's approval provided subtitle is different.

**PHE 800. Research Methods HEA/PHE/REC. (3 Credits)**

I, II. Cross listed with EHS 800. Application of research methods to health/physical education/recreation with emphasis on consumption of research, methods of research, and tools and instrumentation for research in health/physical education/recreation. Credit will not be awarded for PHE 800 if taken EHS 800. to students who have credit for EHS 800.

**PHE 805. Dance in the P-12 Curriculum. (3 Credits)**

A. The course teaches the basic dance concepts and skills that are to be covered in the P-12 school curriculum. Teachers of all levels and specialties learn how to include dance in their own curriculum. Folk/social, ethnic and art forms of dance are covered. No previous dance experience is necessary.

**PHE 810. Financial Aspects of Sport. (3 Credits)**

A. Study of the principles, practices, and theories associated with finance planning and management of enterprises engaged in the provision of sport related services and/or products. Topics include budget planning and preparation, preparing and analyzing financial statements, revenue sources, money management, preparation of business plans and feasibility studies.

**PHE 812. Lifetime Fitness and Wellness. (3 Credits)**

A. Philosophical and factual basis for lifetime fitness for professional fitness leaders. Problem-solving and decision-making approaches to establish creative and effective programs.

**PHE 814. Sport Mkt/Prom/Fund Raising. (3 Credits)**

I, A. Marketing, promotion, and fund raising within the context of amateur and professional sport. An overview of sport business industry; theory; pricing, distribution, and promotional technique of sport; media relations; endorsement and sponsorships; and licensing.

**PHE 821. Physiological Bases of Phy Fit. (3 Credits)**

II. Effects of chronic exercise on neuromuscular, cardiovascular, respiratory, and metabolic function.

**PHE 822. Sociology of Sport. (3 Credits)**

A. Meaning of sport in contemporary societies; relationship of selected social factors on development of social groups and attitudes in varying levels of sport; structure and function of sport in simple and complex social institutions.

**PHE 823. Sport and Exercise Psychology. (3 Credits)**

II. Scientific study of people and their behavior in sport and exercise contexts and the practical applications of that knowledge.

**PHE 825. Policy and Governance of Sport. (3 Credits)**

II. An in-depth study of major sport governing agencies including organizational structure, constitutions, policies, procedures, and membership requirements of sport agencies at the state, national, and international levels.

**PHE 831. Lab Meth Exercise Physiology. (3 Credits)**

II. Prerequisite: PHE 821 or instructor approval. Study, practice and applications of methods of calorimetry; anthropometry; measurement of muscular strength, muscular endurance and cardiovascular-respiratory endurance; analysis of expired air; and determination of reliability and validity.

**PHE 833. Motor Development. (3 Credits)**

A. Examination of physical activity as a factor in growth and development of children and adolescents. Including biological and behavioral science as the foundation for integrated study of physical growth, motor development, and physical activity.

**PHE 835. Legal Issues in Sports. (3 Credits)**

I. Principles and concepts of sport in contemporary society with primary emphasis on legal issues that relate to amateur sport.

**PHE 839A. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**PHE 839B. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**PHE 839C. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**PHE 839D. Co-op or Appl Lrn: Physical Ed. (0.5-6 Credits)**

A. Prerequisites: departmental approval; must have been admitted to the Master of Science/Sports Administration option. Work under faculty and field supervisors in a cooperative placement related to student's academic studies. One to six hours credit per semester or summer. Six hours may count toward master's degree. A minimum of eighty hours work is required for each academic credit.

**PHE 840. Disability Sport & Rehab.. (3 Credits)**

A. This course will introduce students to disability sport, and how exercise and adapted physical activity may be used to improve the quality of life for persons with disabilities.

**PHE 848. History/Philosophy PE & Sport. (3 Credits)**

A. A study of organized physical activity of people in significant cultural epochs in history and the underlying philosophy that influenced these activities.

**PHE 850. Event and Facility Management. (3 Credits)**

I. A. Focus on fundamentals of event and facility management: organizing and operating athletic events, planning and modifying facilities associated with athletic, physical education, fitness, and recreation programs.

**PHE 852. Motor Learning & Performance. (3 Credits)**

II. Behavioral aspects related to the theory of learning and performance of motor skills taught in school and non-school environments; factors affecting learning and performance are also investigated.

**PHE 869. Organization/Admin of Athletic. (3 Credits)**

II. Administrative patterns for high school and college athletics; topics include programs, personnel, facilities, athletic organization consideration.

**PHE 870. Internship Sports Administrati. (1-6 Credits)**

A. Supervised experience in selected aspects of sports in a sports administration setting. May be retaken to a maximum of six hours.

**PHE 871. Internship: Exercise/Wellness. (1-6 Credits)**

A. Supervised experiences of selected aspects of wellness programming.

**PHE 875. Seminar in PE/Exercise/Sport. (3 Credits)**

A. Research and discussion of critical questions in physical education; topics to be studied will vary according to the concerns of seminar students.

**PHE 885. Independent Study. (1-3 Credits)**

A. Designed for graduate students who have demonstrated the ability to conduct individual research relating to physical education. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of three hours.

**PHE 891. Issues in PE/Exercise/Sport. (3 Credits)**

A. Identification of critical issues arising from current problems; exploration of points of view and possible solutions.

**PHE 895. Assessment in Physical Educati. (3 Credits)**

II. Prerequisite: PHE 775 or instructor approval. Comparative statistics, construction of measurement instruments, and evaluation techniques applied to physical education.

**PHE 896. Sports Administration Capstone. (3 Credits)**

A. Comprehensive integration and application of program learning outcomes. The student will analyze and synthesize academic knowledge and practical experience as they relate to issues and problems in sports administration.

**PHE 897. Thesis. (3-6 Credits)**

A. For students preparing a thesis in partial fulfillment of the requirements for the master's degree programs. May be retaken to a maximum of six hours.

## PHI Philosophy (PHI)

**PHI 101. Logic and Critical Reasoning. (3 Credits)**

(3) A. Prerequisite: ACT scores: Math 19 or higher; Reading 20 or higher; and English 18 or higher or ENG 101 or 101R(C) or minimum placement test score. Introductory course in the analysis and evaluation of arguments, with primary focus on deductive validity and the systems of categorical and propositional logic. Credit will not be awarded to students who have credit for PHI 101R. Gen. Ed. E-2.

**PHI 101R. Logic and Critical Reasoning (Supported). (4 Credits)**

(4) A. Prerequisite: ACT scores: Reading 20 or higher; and English 18 or higher or ENG 101 or 101R(C) or minimum placement test score. Introductory course in the analysis and evaluation of arguments, with a primary focus on deductive validity and the systems of categorical and propositional logic. Credit will not be awarded to students who have credit for PHI 101. Gen. Ed. E-2.

**PHI 110. Beginning Philosophy. (3 Credits)**

I, II. Basic introductory course in philosophy. Consideration of perennial questions of the human experience, especially questions about reality, knowledge, self, values, and religious belief. Credit will not be awarded to students who have credit for PHI 110W. Gen. Ed. Element 3B.

**PHI 110W. Beginning Philosophy: Writing Intensive. (3 Credits)**

I, II. Prerequisite: ENG 102 or 105 (B) or HON 102 (B). A writing-intensive basic introductory course in philosophy. Consideration of perennial questions of the human experience, especially questions about reality, knowledge, self, values, and religious belief. Credit will not be awarded to students who have credit for PHI 110. Gen. Ed. Element 3B.

**PHI 130. Beginning Ethics. (3 Credits)**

I, II. Survey of theories concerning the nature of right and wrong, emphasizing how these theories can be applied to personal moral choices. Credit will not awarded for both PHI 130 and PHI 130S. Gen. Ed. Element 3B.

**PHI 130S. Beginning Ethics. (3 Credits)**

(3) I, II. Survey of theories concerning the nature of right and wrong, emphasizing how these theories can be applied to personal moral choices, enhanced with a service learning component. Credit will not be awarded for both PHI 130S and PHI 130. Gen. Ed. E-3B.

**PHI 240. Philosophy of Religion. (3 Credits)**

A. Study of religious experience, faith and knowledge, the nature and existence of God, the problem of evil, religious ethics, and religious language. Credit will not be awarded to students who have credit for PHI 240W. Gen. Ed. Element 3B.

**PHI 240W. Philosophy of Religion: Writing Intensive. (3 Credits)**

A. Prerequisites: ENG 102, or ENG 105, or HON 102. Study of religious experience, faith and knowledge, the nature and existence of God, the problem of evil, religious ethics, and religious language. Credit will not be awarded to students who have credit for PHI 240. Gen Ed. Element 3B.

**PHI 300. Greek and Roman Philosophy. (3 Credits)**

A. Survey of philosophical thought as seen through an examination of selected issues and selected philosophers from ancient Greece through the early Roman period. Credit will not be awarded to students who have credit for PHI 300W. Gen. Ed. Element 3B.

**PHI 300W. Greek & Roman Philosophy: W. (3 Credits)**

A. Prerequisite: ENG 102, or ENG 105 (B), or HON 102 (B). Survey of philosophical thought as seen through an examination of selected issues and selected philosophers from ancient Greece through the early Roman period. Credit will not be awarded to students who have credit for PHI 300. Gen. Ed. Element 3B.

**PHI 310. Medieval Philosophy. (3 Credits)**

A. Study of Christian, Jewish, and Islamic philosophical thought in the Middle Ages and of Renaissance scholasticism. Issues in various areas of philosophical inquiry are examined through selected readings from Augustine to Suarez.

**PHI 320. Modern Philosophy. (3 Credits)**

A. Examination of some major issues and some major philosophers from the 17th and 18th centuries. Gen. Ed. Element 3B.

**PHI 330. Twentieth Century Philosophy. (3 Credits)**

A. A survey of the principal schools of philosophic thought of the twentieth century in Europe and America, with special attention to the important issues which emerge.

**PHI 332. Existentialism & Postmodernism. (3 Credits)**

A. Study of the influence of such existentialists as Nietzsche, Husserl, Sartre, de Beauvoir, and Heidegger on contemporary postmodern theories such as Foucault, Baudrillard, Derrida, Kristeva, and Irigaray.

**PHI 340. Philosophy of Science. (3 Credits)**

A. How views of reality, knowledge, and values relate to science and scientists. Philosophical assumptions of science examined through historical examples of scientific investigations. The value and the values of scientific methods and scientific theories. Credit will not be awarded to students who have credit for PHI 340W. General Education VIII (Option 3).

**PHI 340W. Philosophy of Science: W. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102 (B). A writing-intensive basic introductory course in philosophy of science. How views of reality, knowledge, and values relate to science and scientists. Philosophical assumptions of science examined through historical examples of scientific investigations. The value and the values of scientific methods and scientific theories. Credit will not be awarded to students who have credit for PHI 340. General Education VIII (Option 3).

**PHI 342. American Philosophy. (3 Credits)**

A. A critical examination of basic beliefs held by Americans regarding themselves, their culture, and world, through the thought of modern American philosophers such as Royce, Peirce, James, Santayana, Woodbridge, Dewey, and Whitehead.

**PHI 349. Applied Learning in Philosophy. (0.5-8 Credits)**

A. Prerequisite: consult with department chair before enrolling. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**PHI 350. Metaphysics. (3 Credits)**

A. An elaboration of the various approaches to metaphysics in the history of philosophy, including contemporary anti-metaphysical points of view.

**PHI 352. Theory of Knowledge. (3 Credits)**

A. An examination of the nature, possibility, limits, sources and value of knowledge of minds and the world.

**PHI 360. Ethical Theory and Practice. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105 (B), or HON 102; PHI 110 or 130. An advanced course in ethics that examines the intersection of ethical theory and practical ethics. Topics include major ethical theories, the nature and aims of applied ethics, and critical and creative thinking in ethical problem-solving.

**PHI 362. Technology and Values. (3 Credits)**

A. An examination of philosophical issues related to science, technology, public health, economics, and the environment, with special attention being given to the personal and social ethical issues that arise in these contexts. Gen. Ed. VIII.

**PHI 371. Symbolic Logic. (3 Credits)**

A. Basic introduction to modern symbolic logic: propositional logic, first order predicate logic, proofs and metaproofs, and nature and properties of formal logic systems. Gen. Ed. VII (QS).

**PHI 381. Animal Ethics. (3 Credits)**

A. An examination of major theories of animal welfare and rights; consideration of issues involving the use of animals as food and other goods, animal experimentation, wildlife, endangered species, hunting, animals and sport, pets, and zookeeping.

**PHI 383. Health & Biomedical Ethics. (3 Credits)**

A. An examination of the value-issues which surround problems that arise in health-related fields and whose resolution calls for moral judgments. Typical problems would include: euthanasia, experimentation with humans, behavior control, genetic engineering, and distribution of health care facilities. Credit will not be awarded for both PHI 383 and PHI 383W.

**PHI 383W. Health and Biomedical Ethics. (3 Credits)**

A. Prerequisite: ENG 102 or 105(B) or HON 102. An examination of the value-issues which surround problems that arise in health-related fields and whose resolution calls for moral judgments. Typical problems would include: euthanasia, experimentation with humans, behavior control, genetic engineering, and distribution of health care facilities. Credit will not be awarded for both PHI 383 and PHI 383W.

**PHI 385. Environmental Ethics. (3 Credits)**

A. Prerequisite: ENG 102 or 102R or ENG 105 (B) or HON 102. An examination of historical and contemporary views of the values and rights of nature. Possible topics include animal rights, conservationism, the land ethic, stewardship, deep ecology, ecofeminism, and indigenous approaches to the environment. Credit will not be awarded for both PHI 385 and ENV 385.

**PHI 388. Special Topics in Ethics. (1-3 Credits)**

A. An examination of ethical theories, of major ethical thinkers, or of an applied ethical field like business ethics or environmental ethics. May be retaken to a maximum of fifteen hours if the topic is different.

**PHI 390. Special Topics in Philosophy. (1-3 Credits)**

A. Prerequisite: consult with department chair before enrolling. Detailed examination of a problem-area or a school of philosophy in the history of philosophy or the thought on one outstanding philosopher. May be retaken to a maximum of fifteen hours if the topic is different.

**PHI 432. Philosophy of Art. (3 Credits)**

A. Examination of the major philosophical theories of art and beauty and the place of aesthetic language in the general area of value judgments. Representative classical and contemporary figures will be considered.

**PHI 490. Independent Work in Philosophy. (1-3 Credits)**

(1-3) I, II. Prerequisite: consult with department chair before enrolling. Individual research and reading on a specified philosophical problem chosen by the student and instructor. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours if topic is different.

**PHI 499. Senior Project. (3 Credits)**

A. Prerequisite: Departmental Approval. Supervised, independent project for seniors majoring in philosophy.

**PHI 551. Classical Political Theory. (3 Credits)**

A. Cross-listed as POL 551. Examination of Western political thought from Plato to Aquinas. Credit will not be awarded to students who have credit for POL 551, POL 551W or PHI 551W.

**PHI 551W. Classical Political Theory. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102 (B). Cross-listed as POL 551W. Examination of Western political theory from Plato to Aquinas. Credit will not be awarded to students who have credit for POL 551, POL 551W or PHI 551.

**PHI 552. Modern Political Theory. (3 Credits)**

A. Cross-listed as POL 552. Examination of Western political theory from the Renaissance to the mid-twentieth century. Credit will not be awarded to students who have credit for POL 552, POL 552W or PHI 552W.

**PHI 552W. Modern Political Theory. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Cross-listed as POL 552W. Examination of Western political theory from the Renaissance to mid-twentieth century. Credit will not be awarded to students who have credit for POL 552, POL 552W or PHI 552.

**PHI 553. Contemporary Political Theory. (3 Credits)**

A. Cross-listed as POL 553. Examination of Western political theory from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for POL 553, POL 553W or PHI 553W.

**PHI 553W. Contemp Political Theory: W. (3 Credits)**

A. Prerequisite: ENG 102 or 105 (B) or HON 102. Cross-listed as POL 553W. Examination of Western political theory from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for POL 553, POL 553W or PHI 553.

**PHI 751. Classical Political Theory. (3 Credits)**

A. Cross-listed as POL 751. Examination of Western political thought from Plato to Aquinas. Credit will not be awarded to students who have credit for PHI 551, PHI 551W, POL 551, POL 551W or POL 751.

**PHI 752. Modern Political Theory. (3 Credits)**

A. Cross-listed as POL 752. Examination of Western political theory from the Renaissance to the mid-twentieth century. Credit will not be awarded to students who have credit for POL 552, PHI 552, POL 552W, PHI 552W or POL 752.

**PHI 753. Contemporary Political Theory. (3 Credits)**

A. Cross-listed as POL 753. Examination of Western political thought from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for PHI 553, PHI 553W, POL 553, POL 553W or POL 753.

## PHY Physics (PHY)

**PHY 101. Conceptual Physics. (3 Credits)**

I, II. Prerequisite: MAT 105 or higher or departmental approval. Conceptual approach to topics such as kinematics, Newtonian mechanics, electricity, magnetism, and optics. Not intended for science majors. Credit will not be awarded to students who have credit for PHY 102. 4 Lec/Lab. Gen. Ed. E-4.

**PHY 102. Inquiry Physics for MS Teachers. (3 Credits)**

I, II. Prerequisite: MAT 105 or higher and pre-teaching or teaching middle school education, special education middle grades, or DHH middle grade education majors or departmental approval. An inquiry-based, conceptual approach physical science course for middle school teaching majors. Topics include kinematics, matter and heat, optics, electricity, and magnetism. Credit will not be awarded for both PHY 101 and 102. 4 Lec/Lab. Gen. Ed. E-4 [NS].

**PHY 104. Inquiry Physical Science for Elementary Teachers. (3 Credits)**

I, II. Cross-Listed with CHE 104. Prerequisite: Elementary, special education elementary, and DHH elementary education majors only, sophomore standing, and MAT 112 or higher. An activity-oriented conceptual course in the physical sciences. Topics include the structure and properties of matter, heat and temperature, forces, motion, magnets, energy, and sound waves. Credit will not be awarded for students who have credit for CHE 104. 2 Lec/2 Lab.

**PHY 131. College Physics I. (5 Credits)**

I, II. Prerequisite: MAT 112 or higher or departmental approval. MAT 120 or higher is recommended. Algebra and trigonometry based approach to Newtonian mechanics, including Kinematics, Newton's laws, momentum, energy, and rotation. Credit will not be awarded to students who have credit for PHY 201. 6 Lec/Lab. Gen. Ed. IVB or VII (NS).

**PHY 132. College Physics II. (5 Credits)**

I, II. Prerequisite: PHY 131 with a grade of "C" or better or departmental approval. Algebra and trigonometry based approach to electromagnetic phenomena, including electric forces and fields, simple DC circuits, magnetic forces and fields, magnetic induction, and optics. Credit will not be awarded to students who have credit for PHY 202. 6 Lec/Lab.

**PHY 200. Volunteering in Physics and Astronomy. (0 Credits)**

A. An exposure to physics and astronomy activities, including, but not limited to, exploring physical and astronomical research projects, organizing physics and astronomy community service, and assisting at other physics and astronomy departmental events. Students can choose the focus of the volunteering in each semester. Passing grade achieved for attending 80% of the designated activities in each semester.

**PHY 201. University Physics I. (5 Credits)**

I. Prerequisite: MAT 211, 234 or 234H or departmental approval. Composition and resolution of forces, laws of equilibrium, Newton's laws of motion, work and energy, momentum, simple harmonic motion, hydrodynamics, heat phenomena. Credit will not be awarded to students who have credit for PHY 131 and PHY 201. 6 Lec/Lab. Gen. Ed. IVB or VII (NS).

**PHY 202. University Physics II. (5 Credits)**

II. Prerequisite: PHY 201 with a grade of "C" or better. Prerequisite or Corequisite: MAT 244 or 244H or departmental approval. Electrostatics, electric potential, dielectrics, A.C. and D.C. circuits, magnetic fields, Faraday's Law, sound, wave motion, geometrical and physical optics. Credit will not be awarded to students who have credit for PHY 132. 6 Lec/Lab.

**PHY 211. Intermediate Physics. (4 Credits)**

A. Prerequisites: PHY 201 with a grade of "C" or better or PHY 131 with a minimum grade of "B" or better; MAT 234 or 234H; or departmental approval. Applications of calculus to physical principles. Topics include fluid mechanics, thermodynamics, and wave optics.

**PHY 221. Statics. (3 Credits)**

A. Prerequisite: PHY 201. Prerequisite/Corequisite: MAT 244 or 244H or departmental approval. Study of force systems on bodies at rest, descriptions of force systems, distributed and internal forces, frames and trusses, beams.

**PHY 302. Modern Physics. (4 Credits)**

(4) A. Prerequisites: PHY 132 or PHY 202; MAT 211 or MAT 234 or MAT 234H or departmental approval. Physics of the 20th century. Topics include special relativity, quantum effects, wave theory, Bohr theory, nuclear structure, nuclear reactions, and other topics related to 20th century modern physics. Credit will not be awarded to students who have credit for PHY 302W.

**PHY 302W. Modern Physics. (4 Credits)**

(4) A. Prerequisites: ENG 102, 105(B) or HON 102; PHY 132 or PHY 202; MAT 211, MAT 234 or MAT 234H or departmental approval. Physics of the 20th century. Topics include special relativity, quantum effects, wave theory, Bohr theory, nuclear reactions, and other topics related to 20th century modern physics. Credit will not be awarded to students who have credit for PHY 302.

**PHY 303. Introduction to Laser Physics. (3 Credits)**

A. Prerequisite: PHY 132 or PHY 202 and instructor approval. An introduction to the theory and application of different types of lasers such as dye, nitrogen, He/Ne, diode, and mercury vapor; the characteristics of laser light, and optical measuring devices. 2 Lec/2 lab.

**PHY 306. Classical Physics Laboratory. (2 Credits)**

I. Prerequisite: PHY 132 or 202. Experiments in mechanics, optics, and electricity. Simulation of physical situations using a spreadsheet. Techniques of interfacing scientific equipment to microcomputers. 4 Lab.

**PHY 307. Electronics. (4 Credits)**

A. Prerequisite: PHY 132 or 202. Theory of solid state devices, power supplies, transducers, operational amplifiers, solid state switches, flip-flops, counters, digital devices, logic families. 3 Lec/3 Lab.

**PHY 310. Theoretical Methods in Physics. (3 Credits)**

(3) A. Prerequisites: MAT 254 with a grade of "C" or better; CSC 174, or departmental approval. Analytical methods for characterizing physics models and solving physics problems in advanced topics are discussed, including vector analysis, linear algebra, complex analysis, infinite series, waves and Fourier series, differential equations and other techniques.

**PHY 315. Electrical Circuits. (4 Credits)**

A. Prerequisite: PHY 202. Prerequisite or Corequisite: MAT 244 or 244H. Fundamental laws and principles for linear circuits whose elements consist of passive and active components used in present day practice. Determination of the sinusoidal steady state responses using the algebra of complex numbers.

**PHY 349. Applied Learning in Physics. (0.5-8 Credits)**

A. Work in placements related to academic studies. A minimum of 80 hours employment is required for each semester hour of academic credit. Total hours: eight, associate; sixteen, baccalaureate. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 349A. Cooperative Study: Physics. (0.5-8 Credits)**

A. Work in placements related to academic studies. A minimum of 80 hours employment is required for each semester hour of academic credit. Total hours: eight, associate; sixteen, baccalaureate. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 349B. Cooperative Study: Physics. (0.5-8 Credits)**

Work in placements related to academic studies. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 349C. Cooperative Study: Physics. (0.5-8 Credits)**

Work in placements related to academic studies. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 349D. Cooperative Study: Physics. (0.5-8 Credits)**

Work in placements related to academic studies. Hours earned in PHY 349 will not apply toward a physics major or minor.

**PHY 375. Engineering Thermodynamics. (3 Credits)**

A. Prerequisite: PHY 202. Prerequisite or Corequisite: MAT 244 or 244H. Study of temperature, thermodynamic systems, ideal gases, first and second law of thermodynamics, Carnot cycle, Kelvin temperature scale, entropy, including thermodynamic analysis of engineering devices.

**PHY 402. Modern Optics. (3 Credits)**

A. Prerequisite: PHY 211 or departmental approval. Prerequisite or Corequisite: MAT 244. Wave motion, interference, diffraction, electromagnetic radiation, dispersion, polarization, and lasers.

**PHY 406W. Advanced Physics Laboratory. (3 Credits)**

Prerequisite: ENG 102, 105(B), or HON 102; PHY 302 or 302W, or departmental approval. Experiments in mechanics, optics, electricity, and nuclear physics, computer simulations of physical situations. Measurement and data analysis techniques, including error analysis. May be repeated up to a maximum of six hours provided content different each time. 5 Lec/Lab.

**PHY 410. Independent Study in Physics:\_\_\_\_. (1-6 Credits)**

(1-6) A. Prerequisite: PHY202 or departmental approval. May be retaken to a maximum of six hours provided subject matter is different each time. Student must have the independent study form approved by faculty supervisor and department chair prior to enrollment.

**PHY 411. Special Topics in Physics:\_. (1-6 Credits)**

(1-6) A. Prerequisite: PHY 202 or departmental approval. Special topics in physics of current interest to faculty and students will be presented through lecture, discussion, and reports. May be retaken to a maximum of six hours provided subject matter is different each time.

**PHY 412. Directed Research in Physics:\_. (1-6 Credits)**

A. Prerequisite: PHY 302 and departmental approval. A directed research experience for physics majors that may include laboratory experiments, development of new equipment, physics education research, or computational solutions of special problems related to physics. May be retaken to a maximum of six hours. Student must have the independent study form approved by faculty supervisor and department chair prior to enrollment.

**PHY 421. Electricity and Magnetism I. (3 Credits)**

(3) I. Prerequisites: PHY 310 with a grade of "C" or better or departmental approval. Electrostatics in vacuum and dielectrics, solutions of Laplace's and Poisson's equations, magnetic fields, induced EMF's, magnetic materials, and Maxwell's equations.

**PHY 422. Electricity and Magnetism II. (3 Credits)**

(3) II. Prerequisites: PHY 421 or departmental approval. Maxwell's equations, electromagnetic waves in insulators and conductors, energy and momentum, electromagnetic radiation, dipole radiation, special relativity, special applications.

**PHY 456. Statistical and Thermal Physics. (3 Credits)**

A. Prerequisites: PHY 302; PHY 310 with a grade of "C" or better; or departmental approval. Microscopic approach to thermal processes. Topics include probability, entropy, the canonical ensemble, blackbody radiation, and quantum statistics including Bose-Einstein and Fermi-Dirac statistics.

**PHY 460. Classical Mechanics. (4 Credits)**

(4) A. Prerequisite: PHY 310 with a grade of "C" or better or departmental approval. Prerequisite/Corequisite: MAT 353. Applications of calculus to the principles of classical mechanics. Topics include rectilinear motion in 1-D, motion in 3-D, non-inertial frames, central forces, many-bodied systems, rigid bodies, Lagrangian mechanics, and other topics related to classical mechanics.

**PHY 470. Quantum Mechanics. (3 Credits)**

A. Prerequisites: PHY 310 and PHY 460, or departmental approval. Basic principles of wave mechanics, solutions of Schrodinger wave equation for simple systems, interpretation of solutions and application to atomic and molecular problems.

**PHY 506. Physics for High School Teachers. (3 Credits)**

A. Credit given toward major or minor only in teaching programs. Topics from general and modern physics to prepare teachers to teach high school physics and give classroom demonstrations. 2 Lec/3 Lab.

**PHY 706. Physics for High Sch Teachers. (3 Credits)**

A. Prerequisites: one year of college physics and instructor approval. Credit given toward major or minor only in teaching programs. Topics from general and modern physics to prepare teachers to teach high school physics and give classroom demonstrations. 3 Lec/3 Lab.

**PHY 806. Sel Top in PHY for Sec Tchrs. (3 Credits)**

A. Prerequisite: secondary certification in physics. Study of topics in physics selected from the following fields: mechanics, thermodynamics, sound, electricity, magnetism, optics, and modern physics. Selection will depend upon the need of the student. 2 Lec/3 Lab.

**PHY 808. Top in Phys Sci for Sec Tchrs. (1-6 Credits)**

A. Restricted to physical science teachers not certified in physics. Study of problems in science relevant to secondary physical science. May be retaken to a maximum of six hours.

**PHY 809. Wrkshp in Physics for Teachers. (1-3 Credits)**

A. This course is designed for summer workshops for science teachers needing further work on content or techniques in teaching physics. Different workshops may be repeated for up to six hours credit.

**PHY 880. Special Topics in Physics. (1-3 Credits)**

A. Specially assigned theoretical or experimental work on topics not covered in other courses.

**PHY 881. Selected Topics. (1-3 Credits)**

A. Prerequisite: instructor approval. Selected topics not normally presented that may be of interest to groups of certain students will be presented. May be retaken to a maximum of three hours.

## PLI Prof Liability Insurance (PLI)

**PLI 0000. Undergrad Profes Liability Ins. (0 Credits)**

**PLI GR00. Graduate Profes Liability Ins. (0 Credits)**

## PLS Police Studies (PLS)

**PLS 103. Police, Order Maintenance and Crime. (3 Credits)**

A: Overview of the role of police. The historical development of policing, police functions and bureaucratic organization are examined. Police misconduct, discretion and effectiveness receive special attention.

**PLS 216. Criminal Law. (3 Credits)**

I, II. The nature of the criminal act; the essential elements; theories of responsibility; exculpatory matters; overview of common law offenses; identification of trends in the law.

**PLS 220. Criminal Investigation. (3 Credits)**

A. Fundamental of criminal investigation, crime scene search and recording, collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up, case preparation and case management.

**PLS 315. Police Administration and Management. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Critically examines the theories of motivation, leadership, and organization in the police context. Police administrative and management functions studied emphasizing personnel management and organizational change.

**PLS 316. Criminal Evidence. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Overview of trial procedures; classification of evidence; proof; presumptions; relevance; eyewitness identification; testimonial privileges; character; hearsay; impeachment; scientific evidence; collection and preservation of evidence.

**PLS 326. Ethical Decisions and Police. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the problems of ethical philosophies, theories and law in the context of policing. Consideration is given to problems of police judgment arising from unquestioned assumptions about morality. Focuses on forms of ethical violation at the individual, group and organization levels as well as strategies for prevention and control. Credit will not be awarded for both PLS 326 and PLS 326W.

**PLS 330. Topics in Police Studies. (1-6 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examination of a contemporary issue in policing including historical perspective, societal issues, present status, and future development. The police response to a specific problem is the core of this course. Course may be taken for a maximum of six hours under different headings.

**PLS 349. Applied Learning in Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349A. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349B. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349C. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349D. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349E. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349F. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349G. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 349H. Cooperative Study: Police Administration. (0.5-15 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Work under faculty and field supervisors, in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; fifteen, baccalaureate. Minimum 80 hours work required for each academic credit. A maximum of three hours of PLS 349 and CRJ 424 can be applied toward the PLS major or minor.

**PLS 375. Terrorism/ Counterterrorism. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A study of domestic, foreign, transnational and state terrorism. This course examines issues related to defining, preventing and combating terrorism. Various social and historical forces and events will be considered in order to contextualize specific key individuals, organizations and actions.

**PLS 380. Police in the Popular Media. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A study of the public's perception of police through popular media (music, radio, television, films, short stories and books) and how those media sources might influence policing itself.

**PLS 385. Police Related Violence. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A descriptive, theoretical and philosophical approach to violence used by the police and violence directed toward them. Psychological and sub-cultural impacts will be examined. Additional analysis associated with lethal and non-lethal violence policy and strategies are included.

**PLS 401. Multi-Culturalism and Policing. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the policing of marginalized populations and investigates the realities of these persons within policing. Specific populations can include racial and ethnic minorities, age, women, sexual minorities, persons with physical and mental disabilities, immigrant populations, veterans, and others.

**PLS 403. Homicide. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Explore current theoretical, philosophical and empirical literature associated with homicide. Content includes descriptive, theoretical, empirical, and practical explanations of criminal homicide patterns. Included will be an examination of death investigation systems and police responses.

**PLS 408. Policing and Technology. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the current realities of cyber crime and the official police response. Consideration will be given to legal issues, civil liberties, police deviance and the sociopolitical impacts of technology.

**PLS 410. The police and Community. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines relationships between the police and community that address crime and quality of life problems. Community is examined as a geographical space made of multiple and diverse publics sometimes requiring different strategies and attention. A distinction is drawn between public relations and police community partnerships.

**PLS 414. Social Forces and Policing Society. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the history and evolution of policing in the United States with an emphasis on the political, social, cultural, legal and organizational forces that have molded that history. The roles and functions of police in America are examined in detail within the context of race, class and gender.

**PLS 415. Contemporary Police Strategies. (3 Credits)**

A. Prerequisites: CRJ 101 or PLS 103 or SJS 101 or COR 102 or departmental approval. Review of contemporary police issues, programs, and strategies. Detailed analysis and evaluation of police practices, including impact on the relationship between the police and the community. Assessment of police reform measures and accountability mechanism.

**PLS 416. Criminal Procedure. (3 Credits)**

A. Prerequisite: PLS 216 and CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. A detailed study of the laws of arrest (including the use of force), search and seizure, emphasizing the constitutional basis, historical development, statutes, and recent court decisions. Credit will not be awarded for PLS 416 and 416W.

**PLS 420. Surveillance & Society. (3 Credits)**

A. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or departmental approval. Examines the nexus of surveillance, policing, and society. The course explores the role of states, corporations and individuals in monitoring and policing of bodies, populations, property and information. Consideration is given to historical and contemporary dynamics of surveillance: socio-technical assemblages, risk and security discourses, institutional blurring, inequalities and civil liberties.

## POL Political Science (POL)

**POL 100. Principles of Politics and Government. (3 Credits)**

I, II. An introductory social science course focusing on the political and governmental aspects of societies. Does not count toward political science major requirements. Credit will not be awarded to students who have credit for POL 100S.Gen. Ed. VB, VC, or VII (SBS).

**POL 100S. Principles of Politics & Govt. (3 Credits)**

I, II. An introductory social science course focusing on the political and governmental aspects of societies, enhanced with a service-learning component. Does not count toward the political science major requirements. Credit will not be awarded to students who have credit for POL 100. Gen. Ed. VB, VC, or VII (SBS).

**POL 101. Introduction to American Government. (3 Credits)**

I, II. Principles, functions, and basic political institutions of the American system of government at the national level. Gen. Ed. VB, VC, or VII (SBS). [SB] E-5A, E-5B. Credit will not be awarded for both POL 101 and POL 101S.

**POL 101S. Intro to Amer Govt: Svc Lrning. (3 Credits)**

A. Principles, functions, and basic political institutions of the American system of government at the national level enhanced with a service-learning component. Credit will not be awarded to students who have credit for POL 101. Gen. Ed. VB, VC, or VII (SBS).

**POL 201. Short Topics in Political Science. (1-3 Credits)**

A. A maximum of three short topics offered during any semester. The student may take any or all topics. May be retaken to a maximum of six hours when topics vary.

**POL 212. Introduction to Comparative Politics. (3 Credits)**

I, II. A study of the purpose, concepts, and methods used in the cross-national study of politics and government with a focus on selected countries. Gen. Ed. VB or VC or VII (SBS). [SB] E-5A or E-5B.

**POL 220. Introduction to World Politics. (3 Credits)**

(3) I, II. The study of the political interactions of countries and organizations relating to politics, economics, the environment, technology, culture and society on a global level. Gen. Ed. VB, VC, or VII (SBS).

**POL 250. Introduction to Political Philosophy. (3 Credits)**

(3) I, II. Examination of Western political theory from the ancient Greeks to the contemporary era with a focus on selected philosophers. Gen. Ed. Elements 3B and 5B.

**POL 256. African American Political Thought. (3 Credits)****POL 280. Research and Writing in Political Science. (3 Credits)**

A. Prerequisite: majors, minors, or departmental approval. Practical application of techniques and methods used in collection, analysis, and written presentation of political data. No more than 6 hours of POL courses numbered 300 or above may be taken prior to completing POL 280.

**POL 310. Latin American Governments. (3 Credits)**

A. A study of the political institutions and issues facing the people and governments of Latin America.

**POL 312. Politics in China. (3 Credits)**

A. Analysis of political development, organizational structure, and operation of Chinese political systems with particular emphasis on Chinese Communism, foreign policies, and contemporary problems in China.

**POL 314. Politics of South Asia. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105(B), or HON 102. Studies and analyzes the political situations of South Asia. Course focuses on the politics of Afghanistan, Pakistan, and India; however, instructor may focus on additional countries or regions as well.

**POL 315. European Politics. (3 Credits)**

A. Examination of the politics and public policies of the European Union and selected European countries.

**POL 316. Politics in Russia. (3 Credits)**

A. Nature and development of Russia's political system since the end of the USSR and fall of communism; impact of the Soviet era; development of political parties and civil society; superpresidentialism; nationalism; federalism and ethnic politics.

**POL 318. Politics of the Middle East. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105(B), or HON 102. Studies and analyzes the politics of the countries of the Middle East and North Africa, with a focus on historical legacies, contemporary challenges to political and economic development, and international affairs. Credit will not be awarded for both POL 318 and POL 410: Politics of the Middle East.

**POL 321. American Foreign Policy. (3 Credits)**

II. Prerequisite: three hours of POL or instructor approval. Analysis of the internal processes and external factors which affect U.S. foreign policy, with emphasis on the post-World War II period. Case studies in decision-making.

**POL 325. Global Security. (3 Credits)**

(3) I. Prerequisite: ENG 102, ENG 105(B) or HON 102. Analysis of major problems of global and human security, the role of military with emphasis on military-security policies of global import.

**POL 327. International Law & Organization. (3 Credits)**

A. Prerequisite: three hours of POL or instructor approval. Analysis of the development of the U.N.; functional and regional approaches to peace, security, economic cooperation, social welfare, and law in international relations.

**POL 331. Urban Politics. (3 Credits)**

A. Political processes of urban areas including comparisons of alternative structures of urban and other local government.

**POL 332. Kentucky Government and Politics. (3 Credits)**

I, II. An overview of the Kentucky political system: major institutions, processes and political leaders, with emphasis on recent events and developments.

**POL 333. American State and Local Government. (3 Credits)**

A. Study of the institutions and processes of government of the fifty states and of cities and counties.

**POL 340. Political Parties and Interest Groups. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105(B) or HON 102. An overview of the informal political institutions of American government; functions, organization, financing of political parties, interest groups and their relationship to democracy.

**POL 341. The U.S. Congress. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105(B), or HON 102. A systematic examination of the decision-making process in Congress.

**POL 342. The American Presidency. (3 Credits)**

(3) A. Prerequisite: ENG 101, ENG 105(B) or HON 102. An examination of the power and functions of the offices of the President. Recent developments affecting the American President will be emphasized.

**POL 343. Campaigns and Elections. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105(B) or HON 102. An examination of U.S. campaigns and elections including topics in campaign organization and planning, voting behavior, campaign finance and election laws for presidential, congressional and state/local campaigns.

**POL 345. Minority Group Politics. (3 Credits)**

A. Cross listed as AFA 345. Examination and comparison of various theories, strategies, forms of participation, leadership styles, and concepts (e.g., Black Power) of minority group politics. Credit will not be awarded to students who have credit for AFA 345. Gen. Ed. VIII.

**POL 346. Religion and Politics in the World. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), or HON 102. Examines the relationship between religion and politics in the world from such different perspectives as public opinion, voting behavior, institutional structures, political economy, and/or policy-making.

**POL 347. Politics and Religion in the U.S.. (3 Credits)**

A. Interaction of government, politics, and religion in the U.S.: role of Supreme Court and Constitution in defining church-state separation and religious freedom; religious organizations as pressure groups; religion in electoral politics and foreign policy-making; religion and public schools.

**POL 349. Applied Learning in Political Science. (0.5-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. No more than six hours may count toward this major. No more than three hours may count toward this minor.

**POL 349A. Cooperative Study: Political Science. (1-8 Credits)**

A. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. No more than six hours may count toward this major. No more than three hours may count toward this minor.

**POL 349B. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349C. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349D. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349E. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349F. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349G. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 349H. Cooperative Study: Political Science. (1-8 Credits)**

Work in placements related to academic studies. No more than 6 hours can apply to major.

**POL 356. African American Political Thought. (3 Credits)**

(3) A. Cross-Listed with AFA 356. Pre-requisite: ENG 102, 105 (B) or HON 102. Examination of political ideas espoused by African Americans activists from the nineteenth century to the present. Credit will not be awarded to students who have credit for AFA 256. Gen. Ed. E-6.

**POL 357. American Political Thought. (3 Credits)**

A. Study of the political philosophy and values that have shaped the American political system. Emphasis given to problems in democratic theory and to competing ideologies within the American political system.

**POL 360. Judicial Process. (3 Credits)**

A. Study of legal and judicial systems in the United States and their role in the American political process.

**POL 370. Introduction to Public Administration. (3 Credits)**

A. Survey of organization, authority, decision-making, intra-organization communications, and application of principles of the American bureaucracy by case studies.

**POL 373. Politics of Development in Appalachia. (3 Credits)**

A. Cross listed as APP 373. Prerequisite: ENG 102, 105 (B), or HON 102. This course examines community and economic development in the Appalachian region with special emphasis on Kentucky. Focus will be on the political, economic and social aspects affecting development. Credit will not be awarded to students who have credit for APP 373. Gen. Ed. E-6.

**POL 374. Introduction to Public Policy. (3 Credits)**

A. Introduction to the role of federal, state, and local governments in the formulation, implementation, and evaluation of public policies. Examples of policy decisions which might be covered include, energy, housing, environmental quality, and social services.

**POL 376. Public Human Resources. (3 Credits)**

A. Policies and practices for human resources management in public services. Civil Service systems and reforms, diversity and affirmative action, managing, compensating, and motivating employees.

**POL 377. Public Budgeting. (3 Credits)**

A. The political consideration of budget formulation, budget strategy, and budget execution. An analysis of the role of taxes, spending, program evaluation, and planning in the budgeting process at the federal, state, and local levels.

**POL 400W. Capstone Course in Political Science. (3 Credits)**

(3) I, II. Prerequisites: POL 101, POL 212, POL 220, POL 250, and POL 280; ENG 102 or ENG 105(B) or HON 102. Culminating, integrative course for political science majors. Requires advanced analysis integrating subfields of the discipline. Students will complete a major paper assignment, writing in stages with instructor feedback and revisions.

**POL 405. Special Topics in Political Science. (3 Credits)**

A. Exploration of a particular topic; theorist, institution, process, policy, writings, or their combinations. Prerequisites set by the department. May be retaken to a maximum of six hours provided subject matter is different each time.

**POL 412. Politics of Mexico. (3 Credits)**

A. Prerequisite: ENG 102, ENG 105(B), or HON 102. Study of the politics of Mexico, with a focus on historical legacies, contemporary challenges to political and economic development, and key issues in U.S.-Mexico relations. Credit will not be awarded for both POL 412 and POL 410: Politics of Mexico.

**POL 415. Terrorism and Political Violence. (3 Credits)**

A. Examines terrorism and political violence as causes and consequences of cultural, social and political change.

**POL 421. The U.S. and Latin America. (3 Credits)**

A. Examines U.S. foreign policy in Latin America and the Caribbean; Latin American foreign policies; key hemispheric issues such as the war on drugs, immigration, foreign aid, and trade.

**POL 440. Public Opinion & Voting Behavior. (3 Credits)**

(3) A. Prerequisite: ENG 102, ENG 105(B) or HON 102. Survey of recent literature in the field of voting behavior in the U.S. Topics include public opinion, polling, participation, and campaign behavior. Attention paid to methodologies and techniques.

**POL 446. The Politics of Sex. (3 Credits)**

A. Cross listed as WGS 446. The effect of sex on social and political institutions, public policies, and court rulings. Issues may include pornography, sexual and gender discrimination, domestic violence, reproductive rights and gay rights. Credit will not be awarded to students who have credit for WGS 446. Gen. Ed. VIII.

**POL 451. Principles and Politics of Human Rights. (3 Credits)**

A. Cross listed as WGS 451. Examines politics of human rights in theory and in practice. Credit will not be awarded to students who have credit for WGS 451.

**POL 460. Law and Society. (3 Credits)**

A. Sources, nature, function, and limits of law as an instrument of social and political control and direction. Examples taken from property, torts, contracts, criminal law, and selected areas of public policy.

**POL 463. Constitutional Politics. (3 Credits)**

A. An examination of constitutional problems in American government. Emphasis is given to cases in their legal and political context.

**POL 464. Law and Politics of Civil Liberties. (3 Credits)**

A. An examination of historic and contemporary problems of civil liberties. Emphasis is given to cases in their legal and political context.

**POL 466A. Mock Trial. (2 Credits)**

I. Prerequisite: departmental approval.. Preparation of Mock Trial Competitions. Students will develop cases for presentation including preparing opening and closing arguments, introducing testimonial, physical and demonstrative evidence, and conducting direct and cross examination of witnesses. May be retaken to a maximum of 8 hours, only 2 of which may be counted toward the political science major and only 1 may be counted toward the political science minor.

**POL 466B. Mock Trial II. (2 Credits)**

II. Prerequisite: POL 466A and departmental approval. Preparation of Mock Trial Competitions. Students will develop cases for presentation including opening and closing arguments, introducing testimonial, physical, and demonstrative evidence, and conducting direct and cross examination of witnesses. May be retaken to a maximum of 8 hours, only 4 of which may be counted toward the political science major and only 2 may be counted toward the political science minor.

**POL 490. Independent Work in Political Science. (1-3 Credits)**

A. Individual research and/or reading on a problem or area in political science. Regular reports and final research paper required. May be retaken to a maximum of six hours. Students must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**POL 495. Practicum in Political Science. (1-3 Credits)**

A. Supervised field study program. May be retaken to a maximum of six hours, provided subject matter differs each time. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**POL 495A. Practicum in Amer Pol Process. (1-3 Credits)**

A.

**POL 495B. Practicum Comp Pol & Intl Rel. (1-3 Credits)**

A.

**POL 496A. Washington Internship. (1-12 Credits)**

A. Prerequisite: junior or senior standing with 2.5 GPA. Supervised internship with government or private agencies in Washington, D.C. Open by application to those students who fulfill the prerequisite.

**POL 496B. Washington Seminar. (3 Credits)**

A. Corequisite: POL 496A. Seminar on selected topics in national government.

**POL 496C. Washington Forum. (3 Credits)**

A. Corequisite: POL 496A and POL 496B. Seminar on selected topics in national government.

**POL 497. Kentucky Administration Intern Program. (18 Credits)**

A. Prerequisites: junior or senior standing with a cumulative GPA of 2.6 or better (on a 4.0 scale). Enrollment is by invitation only and limited to a maximum of 18 hours.

**POL 498. Kentucky Legislative Internship Program. (3 Credits)**

A. Prerequisites: junior or senior standing with a cumulative GPA of 2.8 or better (on a 4.0 scale) and a definite interest in the legislative process in the Commonwealth. Enrollment is by invitation only and limited to a maximum of 15 hours by registering for POL 408A and 408B.

**POL 498A. Legislative Internship. (3-9 Credits)**

A. Each intern's performance in his or her legislative assignment will be evaluated by the immediate supervisor in consultation with the campus coordinator. May be retaken to a maximum of nine hours.

**POL 498B. Selected Topics in Kentucky Legislative Process. (3-9 Credits)**

A. Seminar on various topics on the legislative process in the Commonwealth which support and constitute an essential part of the Kentucky Legislative Internship Program. May be retaken to a maximum of nine hours.

**POL 498C. Legislative Forum. (3 Credits)**

A. Corequisite: POL 498A and POL 498B. Seminar on selected topics in state government.

**POL 533. Seminar In State and Local Politics. (3 Credits)**

A. A topical analysis of the institutions, policies, and administration of American state and local government. May be retaken to a total of six hours credit, provided subject matter differs each time.

**POL 541. Politics and Education. (3 Credits)**

A. An examination of the way political decisions and policies are made in the field of education. Special attention is given to educational decision makers and political power at the local level.

**POL 551. Classical Political Theory. (3 Credits)**

A. Cross-listed as PHI 551. Examination of Western political thought from Plato to Aquinas. Credit will not be awarded to students who have credit for PHI 551, PHI 551W or POL 551W.

**POL 552. Modern Political Theory. (3 Credits)**

A. Cross-listed as PHI 552. Examination of Western political theory from the Renaissance to the mid-twentieth century. Credit will not be awarded to students who have credit for PHI 552, PHI 552W or POL 552W.

**POL 552W. Modern Political Theory. (3 Credits)**

A. Cross-Listed as PHI 552W. Prerequisites: ENG 102 or ENG 105 (B), or HON 102. Examination of Western political theory from the Renaissance to mid-twentieth century. Credit will not be awarded to students who have credit for PHI 552, PHI 552W, or POL 552.

**POL 553. Contemporary Political Theory. (3 Credits)**

A. Cross-listed as PHI 553. Examination of Western political thought from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for PHI 553, PHI 553W or POL 553W.

**POL 553W. Contemp Political Theory: W. (3 Credits)**

A. Cross-listed as PHI 553W. Prerequisites: ENG 102, or ENG 105 (B), or HON 102. Examination of Western political thought from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for PHI 553, PHI 553W or POL 553.

**POL 565. Administrative Law. (3 Credits)**

A. Nature of the powers vested in administrative agencies; the problems of administrative procedure; and the methods and extent of judicial control over administrative action.

**POL 733. Seminar: State & Local Politics. (3 Credits)**

A. A topical analysis of the institutions, policies, and administration of American state and local government. May be retaken to a total of six credit hours, provided subject matter differs each time.

**POL 741. Politics and Education. (3 Credits)**

A. An examination of the way political decisions and policies are made in the field of education. Special attention is given to educational decision makers and political power at the local level.

**POL 751. Classic & Mediev Pol Theory. (3 Credits)**

A. Cross-listed as PHI 751. Examination of Western political thought from Plato to Aquinas. Credit will not be awarded to students who have credit for PHI 551, PHI 551W, POL 551, POL 551W or PHI 751.

**POL 752. Modern Political Theory. (3 Credits)**

A. Cross-listed as PHI 752. Examination of Western political thought from the Renaissance to the mid-twentieth century. Credit will not be awarded to students who have credit for PHI 552, PHI 552W, POL 552, POL 552W or PHI 752.

**POL 753. Contemporary Political Theory. (3 Credits)**

A. Cross-listed as PHI 753. Examination of Western political thought from the mid-twentieth century to the present. Credit will not be awarded to students who have credit for PHI 553, PHI 553W, POL 553, POL 553W, or PHI 753.

**POL 765. Administrative Law. (3 Credits)**

Nature of the powers vested in administrative agencies; the problems of administration procedure; the methods and extent of judicial control over administrative action.

**POL 800. Research Methods in Pol Sci. (3 Credits)**

A. An introduction and an overview of theories, methods, and analyses which are used in contemporary political science and public administration research.

**POL 801. Admin, Ethics, Public Policy. (3 Credits)**

A. An analysis and overview of the interplay of ethical considerations, administration, and policy process in the public sector.

**POL 835. Sem Intergovernmental Relation. (3 Credits)**

A. An examination of the institutions, concepts, and problems of intergovernmental relations and the American federal system.

**POL 839. Co-op or Appl Lrn: Pub Adm/Pol. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisors in cooperative placement related to student's academic studies. Credit varies with hours of employment. A minimum of eighty hours of work required for each academic credit. May be repeated at the discretion of the department. Credit may be substituted for POL 871 in the M.P.A program provided the requirements of POL 871 are met completely by the cooperative education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A requirements.

**POL 839A. Co-op in Pub Admin & Pol Sci. (0.5-6 Credits)**

Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment. May be repeated at the discretion of the department. Credit may be substituted for POL 871 in the MPA program provided the requirements of POL 871 are met completely by the cooperative education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. cooperative education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. requirements.

**POL 839B. Co-op in Pub Admin & Pol Sci. (0.5-6 Credits)**

Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment. May be repeated at the discretion of the department. Credit may be substituted for POL 871 in the MPA program provided the requirements education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. requirements.

**POL 839C. Co-op in Pub Admin & Pol Sci. (0.5-6 Credits)**

Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment. May be repeated at the discretion of the department. Credit may be substituted for POL 871 in the MPA program provided the requirements of POL 871 are met completely by the cooperative education assignment. Credit may not otherwise be substituted for any M.A. or M.P.A. requirements.

**POL 839D. Co-op in Pub Admin & Pol Sci. (0.5-6 Credits)**

Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit. No more than six hours may count toward this major. No more than three hours may count toward this minor.

**POL 845. Community Development. (3 Credits)**

A. Examines developmental efforts on community level in the United States; relates community development to community organization and examines current efforts, especially those based on the concept of self-help, to generate and implement community development programs.

**POL 846. Non-Profit Organizations. (3 Credits)**

A. Study of non-profit organizations, including an examination of types, leadership styles, management tools, board organization, budgeting and fund-raising.

**POL 847. Grant Writing. (3 Credits)**

A. The study of grant writing processes involving federal and foundation grants as they apply to the public and non-profit sector. Credit will not be awarded for both POL 847 and POL 847S.

**POL 847S. Grant Writing. (3 Credits)**

A. The study of grant writing processes involving federal and foundation grants as they apply to the public and non-profit sector, enhanced with a service-learning component. Credit will not be awarded for both POL 847 and POL 847S.

**POL 870. Public Admin Internship. (3 Credits)**

A. Prerequisite: departmental approval. An internship in a public or nonprofit organizational setting for M.P.A. students conducted under departmental supervision and resulting in a capstone paper.

**POL 871. Field Study in Public Admin. (3 Credits)**

A. Prerequisite: Departmental approval. An advanced, directed research project for M.P.A. students under departmental supervision resulting in a graduate-level report.

**POL 872. Practicum in Public Admin.. (3-6 Credits)**

A. Prerequisite: departmental approval. An experientially based project for MPH students under advisor supervision. Students will be placed in a supervised work environment in public health administration.

**POL 874. Public Sector Leadership. (3 Credits)**

A. This course examines theories and practices of leadership in public and nonprofit sector organizations. Emphasis is given competing theories of leadership and to the examination of leadership through theoretical reference frames.

**POL 875. Organization Theory. (3 Credits)**

A. Survey of major theories as applied to government agencies and other not-for-profit organizations. Topics covered include classical texts and recent research on theories of organizational behavior,

**POL 876. Public Human Resources Mngt. (3 Credits)**

A. Study of strategies and techniques of public human resources management in the public sector and their relationship to pertinent laws, policies, and institutions, in the context of contemporary theories of organizational behavior.

**POL 877. Public Finance Administration. (3 Credits)**

A. An examination of the effects of economic, administrative, legislative and judicial factors on the fiscal operations of government. Study of the budgetary and financial decision-making process at the federal, state and local levels.

**POL 879. Policy Analysis and Evaluation. (3 Credits)**

A. Prerequisite: POL 800. An introduction to theories and methods of analysis relating to public policy and public program formulation, implementation, and evaluation. Topics include quantitative and non-quantitative analytical techniques.

**POL 880. Nonprofit Financial Management. (3 Credits)**

A. The course will examine financial considerations of nonprofit organizations, including funding sources, nonprofit financial statements, reserve development and management, financial accountability, and strategies required to ensure the effectiveness and sustainability of the organization.

**POL 891. Directed Research. (3-6 Credits)**

Research under the direct supervision of one or more departmental members. Students must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment.

**POL 892. Dir. Re in Public Hlth Admin.. (3-6 Credits)**

A. Research under the direct supervision of faculty advisors. Students must have the independent study form approved by the faculty supervisor and department chair. Designed for MPH students concentrating in Public Administration.

**POL 893. Special Topics:\_\_\_\_\_ (1-3 Credits)**

A. Seminar in a specialized topic of the discipline. Topics will vary. May be retaken to a total of six hours credit, provided subject matter differs each time.

**POL 895. Independent Study. (1-3 Credits)**

A. Student-initiated directed study. Can include research project or readings in an area of the discipline. May be retaken to a total of six hours credit, provided subject matter differs each time. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**POL 899. Thesis. (3-6 Credits)**

A. May be retaken to a total of six hours credit.

## PSY Psychology (PSY)

**PSY 200. Introduction to Psychology. (3 Credits)**

I,II. A survey of the major content areas and methods of psychology, including history, biological correlates, cognition, language, intelligence, motivation, emotion, development, personality, abnormal, therapy, and social behavior. Credit will not be awarded to students who have credit for PSY 200W. Gen. Ed. VB, VC, or VII (SBS). E-5B [SB].

**PSY 200W. Introduction to Psychology: Writing Intensive. (3 Credits)**

I, II. Prerequisites: ENG 102 or 105 (B) or HON 102, and completion of developmental reading requirement. A writing intensive survey of the major content areas and methods of psychology, including history, biological correlates, cognition, language, intelligence, motivation, emotion, development, personality, abnormal, therapy, and social behavior. Credit will not be awarded to students who have credit for PSY 200. Gen. Ed. VB, VC, or VII (SBS). E5B.

**PSY 200Z. Introduction to Psychology. (3 Credits)**

I,II. Prerequisite: completion of developmental reading requirement. A survey of the major content areas and methods of psychology, including history, biological correlates, cognition, language, intelligence, motivation, emotion, development, personality, abnormal, therapy, and social behavior. Credit will not be awarded to students who have credit for PSY 200W. Gen. Ed. VB, VC, or VII (SBS). E-5B [SB].

**PSY 240. Scientific Literacy in Psychology. (3 Credits)**

A. Prerequisites: PSY 200 and Pre or Corequisite: ENG 102 or 102R or ENG 105(B) or HON 102. Information literacy, reading, evaluating, summarizing scientific literature in Psychology; scientific writing (APA format); basic research terminology. Credit will not be awarded for both PSY 240 and PSY 250 or PSY 250W.

**PSY 258. Career Development in Psychology. (3 Credits)**

A. Pre or Corequisite: PSY 240 or VTS 200. Will acquaint psychology majors with career opportunities, and help students recognize and build the skills needed for their desired career field. Credit will not be awarded for both PSY 258 and PSY 358.

**PSY 280. Lifespan Developmental Psych.. (3 Credits)**

I, II. Prerequisite: PSY 200. A survey of theory and research in developmental psychology across the entire life span. May not be applied to the Psychology major. Credit will not be awarded to students who have credit for PSY 280W.Gen. Ed. VB, VC, or VII (SBS).

**PSY 280W. Lifespan Developmental Psychology: Writing Intensive. (3 Credits)**

I, II. Prerequisites: PSY 200; ENG 102 or ENG 105 (B) or HON 102. A writing-intensive survey of theory and research in developmental psychology across the entire life span. May not be applied to the Psychology major. Credit will not be awarded to students who have credit for PSY 280. Gen. Ed. VB, VC, or VII (SBS).

**PSY 300. Social Psychology. (3 Credits)**

A. Prerequisite: PSY 200 and Pre or Corequisite: ENG 102 or 102R or ENG 105 (B) or HON 102. A study of the power of situations and the social environment to affect human behavior. Topics include: attitudes, persuasion, prejudice, discrimination, group behavior, interpersonal attraction, aggression and prosocial behavior. Credit will not be awarded for both PSY 300 and PSY 300W.

**PSY 300W. Social Psychology: W. (3 Credits)**

A. Prerequisites: PSY 250 or PSY 250W and ENG 102 or ENG 105 (B) or HON 102. Writing intensive study of the power of situations and the social environment to affect human behavior. Topics include: attitudes, persuasion, prejudice, discrimination, group behavior, interpersonal attraction, aggression and prosocial behavior. Credit will not be awarded to students who have credit for PSY 300.

**PSY 305. Psychology of Personality. (3 Credits)**

A. Prerequisites: PSY 200 and Pre or Corequisite: ENG 102 or 102R or ENG 105 (B) or HON 102. Basic approaches to the study of personality. Theories and research about how personality affects behavior and life outcomes.

**PSY 308. Abnormal Psychology. (3 Credits)**

A. Prerequisites: PSY 200 and Pre or Corequisite: ENG 102 or 102R or ENG 105 (B) or HON 102. Descriptive study of the nature, course, classification and prevalence of abnormal behavior, with attention to intellectual, personality, cognitive, sensory and motor functions.

**PSY 311. Physiological Psychology. (3 Credits)**

A. Prerequisites: PSY 240 or 250 or 250W and ENG 102 or ENG 105(B) or HON 102. Facts, concepts, and principles regarding physiological events that underlie behavior. Attention to contemporary research methods and problems undergoing study.

**PSY 312. Infant and Child Development. (3 Credits)**

A. Prerequisites: PSY 200, and Pre or Corequisite: ENG 102 or 102R or ENG 105(B) or HON 102. Theoretical and empirical approaches to the development of the infant and child with attention to perceptual, behavioral, social, and cognitive development and the capacity for learning.

**PSY 314. Adolescent and Adult Development. (3 Credits)**

A. Prerequisite: PSY 200 and ENG 102 or ENG 105(B) or HON 102. Survey of biological, psychological, social, cognitive, and historical influences on adolescent and adult development.

**PSY 315. Sensation and Perception. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or ENG 105(B) or HON 102. Experimental study of sensation and perception, the sensory and cognitive processes by which we come to know our world. Credit will not be awarded for both PSY 315 and PSY 315L.

**PSY 315L. Sensation and Perception Lab. (4 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or ENG 105(B) or HON 102. Experimental study of sensation and perception, the sensory and cognitive processes by which we come to know our world. 3 Lec/2 Lab. Credit will not be awarded for both PSY 315L and PSY 315.

**PSY 316. Aging and Senescence. (3 Credits)**

A. Prerequisites: PSY 200, and Pre or Corequisite: ENG 102 or 102R or ENG 105(B) or HON 102. Theory and facts about aging changes in sensory processes, intellect, memory, personality, family and psychopathology.

**PSY 317. Cognitive Psychology. (3 Credits)**

A. Prerequisite or co-requisite: PSY 309. Theoretical and empirical approaches to human cognition. Topics include knowledge acquisition and organization, memory, language, problem solving, and thinking skills. Credit will not be awarded for both PSY 317 and PSY 317L.

**PSY 317L. Cognitive Psychology Lab. (4 Credits)**

A. Prerequisite or co-requisite: PSY 309 or PSY 309W or PSY 340W. Theoretical and empirical approaches to human cognition. Topics include knowledge acquisition and organization, memory, language, problem solving, and thinking skills. 3 Lec/2 Lab. Credit will not be awarded for both PSY 317 and PSY 317L.

**PSY 318. Introduction to School Psychology. (3 Credits)**

(3) A. Prerequisites: PSY 240 or PSY 250 or PSY 250W; ENG 102, ENG 105(B) or HON 102; CMS 100, 210, or EES 250. Introduction to the field of School Psychology. Topics include developmental disabilities, mental health diagnoses, assessment, consultation, direct intervention, history of school psychology, and professional considerations.

**PSY 319. Psychology of Work. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 319S. Psychology of Work. (3 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Service learning included in course. Credit will not be awarded for both PSY 319 and 319S.

**PSY 320. Health Psychology. (3 Credits)**

I, II. Prerequisites: PSY 240 or PSY 250 or PSY 250W, and ENG 102 or ENG 105(B) or HON 102. Theoretical and research perspectives on the relationship between psychological factors and health. Emphasis on utilizing psychological principles and methodology to understand and change illness and health behaviors. Credit will not be awarded for both PSY 410 and PSY 320.

**PSY 321. Psychology Perspectives of Parenting and Child Care. (3 Credits)**

(3) A. Prerequisite: PSY 200 and PSY 312. A survey of major psychological theories related to parenting and child care. Topics include attachment, development, behavior, temperament, and parenting styles.

**PSY 322. Cognitive Development. (3 Credits)**

A. Formerly PSY 530. Prerequisite: PSY 240 or PSY 250 or PSY 250W, or departmental approval. Overview of how individuals become intelligent through the acquisition of knowledge, learning to reason, think, and engage in abstract thought. Credit will not be awarded to students who have credit for PSY 530.

**PSY 327. ABA for Behavior Technicians. (3 Credits)**

A. Prerequisite: PSY 200 or departmental approval. Introduction to the principles and practices of applied behavior analysis that provides students with the theoretical knowledge and practical skills to apply for the Registered Behavior Technician credential.

**PSY 330. ABA Assessment and Measurement. (3 Credits)**

Prerequisites: PSY 240 or PSY 250 or PSY 250W; ENG 102, 105 (B), or HON 102; and CMS 100 or 210. An introduction to assessment and measurement in behavior analysis.

**PSY 333. Comparative Psychology. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or ENG 105(B) or HON 102. A survey of theory and research in the psychology of animals. Topics include history of scientific studies, learning, memory, representation, intelligence, knowledge, innovation, culture, communication, development, emotion, social skill, consciousness, and theory of mind.

**PSY 337. Introduction to Psychiatric Rehabilitation. (3 Credits)**

Prerequisite: PSY 308. Introduces students to the background and supporting research behind psychiatric rehabilitation, as well as the field's underlying values and principles.

**PSY 340W. Research Literacy in Psychology. (3 Credits)**

Prerequisites: MAT 105(C) or MAT 106(C) or any MAT course above 106 or PHI 101 or PHI 101R or STA 215; PSY 240 or 250 or 250W; and ENG 102 or 102R or ENG 105(B) or HON 102. Writing intensive introduction to the research methods used in Psychology. Students will not receive credit for both PSY 340W and PSY 309 or 309W.

**PSY 349. Applied Learning in Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W or PSY 258 and departmental approval. Work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit. Three hours may be applied toward the major, not applicable toward a minor. Course may be repeated for up to 16 credits total. Graded Satisfactory/ Unsatisfactory.

**PSY 349A. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and departmental approval. Work in placements related to academic studies. A minimum of 80 hours employment required for each semester hour credit. Three hours may be applied toward the major, not applicable toward a minor. Course may be repeated for up to 16 credits total. Graded Satisfactory- Unsatisfactory.

**PSY 349B. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349C. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349D. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349E. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349F. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349G. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 349H. Cooperative Study: Psychology. (0.5-8 Credits)**

A. Prerequisites: PSY 250 and ENG 102 or ENG 105(B) or HON 102 and CMS100 or CMS 210. Application of psychological theories and procedures to the world of work. Topics include personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership. Credit will not be awarded for both PSY 319 and 319S.

**PSY 350. Animal Enrichment. (3 Credits)**

(3) A. Cross-Listed as ANS 350. Prerequisite: ANS 200 or PSY 200. Covers the concept and practice of animal enrichment. Students will learn about the theoretical and applied aspects of enrichment and will acquire experience designing and implementing enrichment. Credit will not be awarded to students who have credit for ANS 350.

**PSY 377. Psychology of Adoption. (3 Credits)**

(3) A. Prerequisites: PSY 308; PSY 312, 280, or 280W. A survey of developmental, familial, cultural, and psychological factors in the adoption experience.

**PSY 392. Environmental Psychology. (3 Credits)**

I, II. Prerequisites: PSY 200, and ENG 102 or ENG 105(B) or HON 102. Study of ways in which people influence the environment and are influenced by it. Issues include discussion of both the natural and built environment. Credit will not be awarded for both PSY 404 and PSY 392.

**PSY 397. Topics in Psychology:\_\_\_\_. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W and ENG 102 or 105(B) or HON 102. Selected topics for study. Variable topics across semesters in terms of student interest and available faculty. May be retaken for a maximum of 12 credits, provided the subject matter differs each time.

**PSY 399. Research Development Skills. (3 Credits)**

(3) I, II. Prerequisites: ENG 102, ENG 105(B), or HON 102; PSY 309 or 309W or 340W and departmental approval. Prerequisite or Corequisite: PSY 310(C). Advanced development of research skills including generating hypotheses and designing the appropriate methodology to test them. Students will also write a faculty-supervised research proposal, with the purpose of completing the research project in PSY 419.

**PSY 400. Senior Seminar:\_\_\_\_. (3 Credits)**

A. Prerequisite or co-requisite: PSY 310 or 399 or 440 or departmental approval. The senior seminar examines contemporary psychological issues from each of the five sub-disciplines of Psychology. Issues vary from semester to semester. May be retaken once, provided the subject matter differs each time.

**PSY 402. Independent Work in Psychology. (1-3 Credits)**

I, II. Prerequisite: student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. Results must be presented in a formal paper. May be retaken to a maximum of six hours provided different problems are studied.

**PSY 405. Intro to Interviewing/Therapy. (3 Credits)**

A. Prerequisite: PSY 240 or PSY 250 or PSY 250W and PSY 308. Introduction to the basic concepts and skills of interviewing and therapeutic communication in the mental health field.

**PSY 406. Intro to Behavior Therapy. (3 Credits)**

A. Prerequisite: PSY 240 or PSY 250 or PSY 250W, and PSY 308, and ENG 102 or ENG 105(B) or HON 102. Principles and techniques of applying behavioral principles in the analysis of complex human behavior. Emphasis is placed on methods of observing behavior and analyzing functional relationships between behavior and environment.

**PSY 408. Child Psychopathology. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W, and PSY 308, and PSY 280 or PSY 312, and ENG 102 or ENG 105(B) or HON 102. Descriptive study of behavior disorders in children, with attention to symptoms or behavioral patterns, etiological influences, relevant research, theoretical underpinnings, and approaches to assessment and intervention.

**PSY 409. Experiential Learning in Psychology. (0 Credits)**

(0) I, II. Prerequisite: Departmental approval. Supervised field experience in Psychology. Only full-time students may enroll.

**PSY 410. Health Psychology. (3 Credits)**

I, II. Prerequisite: PSY 200 or departmental approval. Theoretical and research perspectives on the relationship between psychological factors and health. Emphasis on utilizing psychological principles and methodology to understand and change illness and health behaviors.

**PSY 412. The Psychology of Art. (3 Credits)**

A. Prerequisite: PSY 240 or PSY 250 or PSY 250W and PSY 305 and PSY 308 and ENG 102 or ENG 105(B) or HON 102 or departmental approval. Exploration of the ways in which selected psychological principles contribute to our understanding of art and the artist.

**PSY 413. Mind & Brain. (3 Credits)**

A. Prerequisites: PSY 250, and PSY 311(C) or 313(C) or 315(C) or 317(C) or 530(C). A bridging discipline between cognitive science and biopsychology that examines the neural bases of mental processes and complex behavior. Major topics include functional brain imaging, neural networks, perception, memory, language, and consciousness.

**PSY 414. Political Psychology. (3 Credits)**

A. Prerequisites: PSY 250 and PSY 300, and ENG 102 or ENG 105(B) or HON 102, and CMS 100 or CMS 210, or departmental approval. Seminar covers research that applies psychological methods and theory to politics. Areas covered include personality and politics, and the psychological perspectives of media bias, ideology, conflict, prejudice, and terrorism.

**PSY 415. Multicultural Psychology. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W, and PSY 300, and ENG 102 or ENG 105(B) or HON 102, or departmental approval. Examines the value-laden nuances of mainstream psychology and its early history of promoting discrimination toward diverse groups in American society, while introducing the multicultural approach for combating the resulting "isms" (e.g. racism, genderism).

**PSY 419. Research Development Skills II. (3 Credits)**

(3) I, II. Prerequisites: PSY 399 and Research Proposal Approved by EKU IRB. Advanced development of data gathering, data analysis and research presentation skills. Students will execute research developed in PSY 399, learn alternative data management and analyses techniques, prepare oral and written presentations of research. Credit will not be awarded to students who have credit for PSY 401.

**PSY 420. Psychology of Women and Gender. (3 Credits)**

A. Cross-listed as WGS 420. Prerequisite: PSY 240 or PSY 250 or PSY 250W, and PSY 300, and completion of academic readiness indicators in reading. ENG 102 or ENG 105(B) or HON 102, or departmental approval. Introduction to current and historical theories and research into the psychology of women, including gender differences and similarities.

**PSY 429. Psychological Perspectives on Substance Abuse. (3 Credits)**

(3) A. Prerequisite: PSY 308. Topics include an overview of current and historical models of addiction and a comparison of assessment and treatment techniques. Evidence-based practice is emphasized.

**PSY 430. ABA Ethics and Intervention. (3 Credits)**

A. Prerequisites: PSY 330 and departmental approval. An introduction to ethical principles of behavior analysts and behavior change systems.

**PSY 437. Psychiatric Rehabilitation Competencies. (3 Credits)**

Prerequisite: PSY 337. Builds on introduction to Psychiatric Rehabilitation by focusing on key components of the Psychiatric Rehabilitation process. Emphasis will be placed on the development of practitioner skills and techniques.

**PSY 440. Applied Scientific Literacy in Psychology. (3 Credits)**

Prerequisite: PSY 309 or 309W or 340W. Applying scientific literacy techniques to the evaluation of claims in everyday scenarios, and developing evidence-based psychological skills in a variety of workplace environments. Students will not receive credit for both PSY 440 and PSY 310.

**PSY 458. Grad School Prep. (3 Credits)**

(3) A. Prerequisite: Junior or senior standing in Psychology; or departmental approval. Hands-on workshop for students intending to pursue graduate education in the near future.

**PSY 476. Psychology of Trauma. (3 Credits)**

Prerequisites: ENG 101, 101R, 102 (B), or HON 102; PSY 240 or PSY 250 or PSY 250W or 308, or Departmental Approval. Topics include trauma and trauma-related assessment and interventions from diverse clinical perspectives. Emphasis will be on the applications of theoretical viewpoints to a variety of posttraumatic situations with a transtheoretical approach to clinical scholarship on trauma.

**PSY 477. Psychology of Intellectual and Developmental Disabilities. (3 Credits)**

(3) A. Prerequisites: PSY 240 or 250 or 250W, PSY 308, PSY 408, and PSY 280 or 312; or departmental approval. Survey of developmental disabilities, including causes, impacts on the individuals and their families, and intervention approaches, as well as broader topics such as education, service delivery approaches, and ethics.

**PSY 490. Clinical Psychology. (3 Credits)**

A. Prerequisite: PSY 250, and PSY 308, and ENG 102 or ENG 105(B) or HON 102. Survey of clinical theories, methods, and approaches.

**PSY 497. Advanced Topics in Psychology.\_\_\_\_. (3 Credits)**

A. Prerequisites: PSY 240 or PSY 250 or PSY 250W, ENG 102, ENG 105(B), or HON 102, or departmental approval. Selected topics for study. Variable topics across semesters in terms of student interest and available faculty. May be retaken for a maximum of 12 hours provided the subject matter differs each time.

**PSY 499. Senior Exit Course in Psychology. (0 Credits)**

(0) I, II. Prerequisite: Senior standing and major in Psychology. Students will complete the Senior Exit Survey and the Senior Knowledge Exam in this course.

**PSY 502. Behavioral Applications I. (3 Credits)**

Prerequisite: PSY 501. This course builds on principles of behavior analysis in creating behavior change across a range of populations, behaviors, and settings. The focus is on fundamental elements of behavior.

**PSY 503. Practicum in Psychology. (1-3 Credits)**

A. Prerequisite: PSY 240 or PSY 250; PSY 309W or PSY 340W, or departmental approval. Practicum experience in which students will utilize their knowledge of psychological theory and methodology in an applied setting. May be retaken for a maximum of 6 hours. Students will not receive credit for both PSY 503 and PSY 703.

**PSY 510. Publishing Empirical. (3 Credits)**

A. Prerequisites: PSY 310 or 399 or 440 or equivalent, and department approval. Students must submit proposals to instructor prior to enrollment. This course will focus on analyzing, writing and submitting results of a psychological study or experiment to an undergraduate or professional journal.

**PSY 513. Mind and Brain. (3 Credits)**

(3) A. Prerequisite: PSY 311 (C), 313 (C), 315(C), 317(C), or 530(C). A bridging discipline between cognitive science and biopsychology examining neural bases of consciousness, mental processes and complex behavior. Major topics include prefrontal cortex functioning, neural networks, decision making, working memory, emotional control, and frontal disconnections. Credit will not be awarded for both PSY 513 and PSY 413.

**PSY 530. Cognitive Development. (3 Credits)**

A. Prerequisite: PSY 309 or departmental approval. Overview of how individuals become intelligent through the acquisition of knowledge, learning to reason, think, and engage in abstract thought.

**PSY 566. Forensic Psychology. (3 Credits)**

A. Formerly PSY 466. Prerequisites: PSY 240 or PSY 250 or PSY 250W, 308, and 6 additional hours in PSY. Review the roles of clinical psychologists in the legal system, focusing on principles of forensic mental health assessment, procedures of civil and criminal forensic psychological assessment, expert testimony, and forensic report writing. Credit will not be awarded to students who have credit for PSY 466.

**PSY 577. The Autism Spectrum. (3 Credits)**

A. Prerequisites: PSY 280 or PSY 312, and PSY 308, and PSY 309 or 309W or 340W, or departmental approval. Introduction to assessment, diagnosis, and intervention in autism spectrum disorders across the life span. Development of skills in applied assessment and intervention.

**PSY 579. History and Systems Of Psychology. (3 Credits)**

A. Prerequisite: PSY 311 or PSY 315; PSY 317, PSY 322 or PSY 530 or PSY 333; PSY 312 or PSY 314 or PSY 316; PSY 300 or PSY 305 or PSY 308 or departmental approval; CMS 100 or CMS 210. Prerequisite or co-requisite: PSY 310 or departmental approval. A survey of the history of psychology and its various schools of thought and approaches to the study of behavior and mental processes.

**PSY 590. Tests and Measurements. (3 Credits)**

A. Prerequisites: PSY 309 or 309W or 340W or departmental approval. Study of measurement principles with application in psychology, business, industry, and government. Interpretation, use, and evaluation of measurement and job analysis methods. Reliability, validity, utility, ethical/legal concerns are examined.

**PSY 597. Advanced Topics in Psychology:\_\_\_\_. (3 Credits)**

A. Prerequisite: PSY 240 or PSY 250 or PSY 250W, and ENG 102 or ENG 105(B) or HON 102 or departmental approval. Selected topics for advanced study. Topics vary across semesters depending on student interest and available faculty. May be retaken up to 12 hours.

**PSY 702. Behavioral Applications II. (3 Credits)**

Prerequisite: PSY 701. This course builds on principles of behavior analysis in creating behavior change across a range of populations, behaviors, and settings. The focus is on fundamental elements of behavior change.

**PSY 703. Practicum in Psychology. (1-3 Credits)**

A. Prerequisite: departmental approval. Practicum experience in which students will utilize their knowledge of psychological theory and methodology in an applied setting. Students will not receive credit for both PSY 503 and PSY 703. May be retaken to a maximum of 6 hours.

**PSY 710. Publishing Empirical Research. (3 Credits)**

(3) A. Prerequisite: Department approval. Students must submit proposals to instructor prior to enrollment. This course will focus on analyzing, writing and submitting results of a psychological study or experiment to a professional journal.

**PSY 713. Mind & Brain. (3 Credits)**

(3) A. Prerequisite: PSY 853(C) or departmental approval. A bridging discipline between cognitive science and biopsychology examining neural bases of consciousness, mental processes and complex behavior. Major topics include prefrontal cortex functioning, neural networks, decision making, working memory, emotional control, and frontal disconnections.

**PSY 766. Forensic Psychology. (3 Credits)**

A. Prerequisite: departmental approval. Review the roles of clinical psychologists in the legal system, focusing on principles of forensic mental health assessment, procedures of civil and criminal forensic psychological assessment, expert testimony, and forensic report writing.

**PSY 777. The Autism Spectrum. (3 Credits)**

A. Prerequisite: departmental approval. Assessment, diagnosis, and intervention in autism spectrum disorders across the lifespan. Conduct autism spectrum assessment and design interventions.

**PSY 779. History & Systems of Psycholog. (3 Credits)**

A. A survey of the history of psychology and its various schools of thought and approaches to the study of behavior and mental processes.

**PSY 790. Tests & Measurements. (3 Credits)**

A. Prerequisite: PSY 200 or departmental approval. Study of measurement principles with application in psychology, business, industry, and government. Interpretation, use, and evaluation of measurement and job analysis methods. Reliability, validity, utility, ethical/legal concerns are examined.

**PSY 797. Advanced Topics in Psy.\_\_\_\_. (3 Credits)**

A. Prerequisite: PSY 200 or departmental approval. Selected topics for advanced study. Variable topics across semester in terms of student interest and available faculty. May be retaken provided the subject matter differs each time.

**PSY 802. Multicultural Psychology. (3 Credits)**

Prerequisite: Admission to the Psy. D. program. Designed to promote self-awareness of cultural values and biases, and increasing knowledge about how race, culture, gender, sexual orientation, and social class impact the professional relationship.

**PSY 803. Rural Mental Health. (3 Credits)**

Prerequisite: Admission to the Psy. D. program. This course is designed to provide an overview of rural mental health with an emphasis on addressing both geographic, economic, and cultural barriers to mental health care in rural communities.

**PSY 804. Introduction to I-O Psychology. (3 Credits)**

A. Prerequisite: departmental approval. Introduction to psychology theories and procedures applied to work. Topics include personnel psychology, organizational psychology, and ethical and legal concerns related to the practice of I-O Psychology.

**PSY 805. Quantitative Research Methods. (3 Credits)**

A. Prerequisite: departmental approval. Principles and techniques of scientific observation, control, and analysis in psychology. Evaluation of research designs and their implementation in professional settings.

**PSY 806. Applied Research Methods. (3 Credits)**

Prerequisite: Departmental Approval. Application of research methods, data analysis techniques, and reporting pertaining to the field of Industrial-Organizational psychology.

**PSY 807. Work Analysis. (3 Credits)**

A. Prerequisite: departmental approval. Psychological principles and techniques involved in job analysis, competency modeling, and job evaluation.

**PSY 808. Selection. (3 Credits)**

Prerequisite: Departmental Approval. Psychological theory, research, and practice pertaining to the personnel selection of human resources in the workplace.

**PSY 809. Performance Management. (3 Credits)**

A. Prerequisite: departmental approval. Psychological theory, research, and practice pertaining to the performance appraisal and performance management of human resources in the workplace.

**PSY 810. Consulting and Business Skills. (3 Credits)**

Prerequisite: Departmental Approval. Developing consulting skills including proposal development, project management, process improvement, contracting, conflict resolution, and networking.

**PSY 811. Professional Development. (3 Credits)**

Prerequisite: Departmental Approval. Developing personal effectiveness including skills in writing, communication, facilitating, leading, and career development.

**PSY 812. Practicum in I-O Psychology. (3 Credits)**

A. Practicum in I-O Psychology. Supervised practice in applied settings. Participation with an approved agency varies with the student's experience. Graded Satisfactory/Unsatisfactory.

**PSY 813. Ethics and Prof Conduct Appl B. (3 Credits)**

A. Prerequisite: Departmental Approval. Foundational ethics for behavior analysts practicing across applied and research areas.

**PSY 816. Philosophical Underpinning ABA. (3 Credits)**

A. Prerequisite: Departmental Approval. Philosophical foundations of behavioral science as applied in the field of Applied Behavior Analysis. This course covers BCBA level content requirements in the Foundational area of Philosophical Underpinnings of Behavior Analysis as required by the Behavior Analysis Certification Board.

**PSY 817. Intro Foundations in Beh Analy. (3 Credits)**

A. Prerequisite: Departmental Approval. Foundation, concepts, and principles of behavioral science applied to the field of behavior analysis.

**PSY 818. Psychology of Addictions. (3 Credits)**

A. Prerequisite: admission to the Psy.D. program. This course is designed to provide an overview of the assessment, diagnosis, theory, and treatment of substance-related and addictive disorders.

**PSY 820. Statistics & Research Design I. (3 Credits)**

A. Prerequisite: departmental approval. Principles and techniques of scientific observation, control, and analysis specifically oriented to research in psychology. Evaluation of research designs and their implementation in professional settings. Emphasis on univariate statistical analyses. Credit will not be awarded to students who have credit for PSY 820S.

**PSY 820S. Statistics & Research Design I. (3 Credits)**

A. Prerequisite: departmental approval. Principles and techniques of scientific observation, control, and analysis specifically oriented to research in psychology in the context of service learning. Evaluation of research designs and their implementation in professional settings. Emphasis on univariate statistical analyses. Credit will not be awarded to students who have credit for PSY 820.

**PSY 822. Crisis Management. (1 Credit)**

Prerequisite: Departmental Approval. Theoretical and practical knowledge in crisis prevention, preparedness, response, and recovery from the systemic level to the individual level. Includes assessment and treatment associated with suicidality.

**PSY 824. Intellectual Assessment. (3 Credits)**

A. Prerequisite: departmental approval. Techniques, principles and problems in the administration, scoring, interpretation, and reporting of individual tests of intelligence for children and adults.

**PSY 825. Personality Assessment. (3 Credits)**

A. Prerequisite: departmental approval. Techniques, principles and problems of evaluating personality via interviews, objective and projective testing. Emphasis on integration of results.

**PSY 826. Professional Concerns I. (1-3 Credits)**

A. Prerequisite: departmental approval. Consideration of ethical and related problems of psychologists.

**PSY 827. Topics in Assessment. (1 Credit)**

A. Prerequisite: departmental approval. Administering, scoring, and interpreting instruments in the area of vocational interest, adolescent personality, adaptive behavior, and individual academic assessment. Emphasis is on application in school and clinical settings.

**PSY 833. Beh Research and Measurement. (3 Credits)**

A. Prerequisite: Departmental Approval. Review of principles and practices underlying behavioral measurement and single subject research designs.

**PSY 837. Social Psy & Cultural Diversity. (3 Credits)**

A. Prerequisite: departmental approval. Graduate level survey of topics in social psychology including social influence, persuasion, social cognition, self-justification, aggression and prejudice. Emphasis on multi-cultural diversity and tolerance of other groups.

**PSY 838. Practicum in Clinical Psy. (1-4 Credits)**

A. Prerequisite: PSY 826 or departmental approval. Supervised Practice in applied settings. Participation varies with student's course work and experience. Class meetings are arranged. May retake to maximum of nine credit hours.

**PSY 841. Psychopathology. (3 Credits)**

A. Prerequisite: departmental approval. Etiology and description of various aspects of psychopathology and ineffective behavior. Credit will not be awarded to students who have credit for COU 855.

**PSY 842. Interventions: School & Home. (3 Credits)**

A. Prerequisite: Departmental approval. Academic and behavioral interventions for school-age children will be reviewed. Emphasis is on identifying, selecting, and implementing research-based interventions for specific behaviors.

**PSY 843. Practicum. (1-4 Credits)**

A. Prerequisite: departmental approval. Supervised practice in applied settings. Selective participation with an assigned agency varies with the student's program with level of preparation in course work, and with previous supervised field experience. Class meetings as arranged. May be retaken to a maximum of eleven credit hours. Graded Satisfactory/Unsatisfactory.

**PSY 845. Clinical Issues and the Deaf. (3 Credits)**

A. Prerequisite: departmental approval. Survey of clinical issues involved in providing mental health services to the deaf and hard-of-hearing. Topics will include the prevalence and nature of psychological problems among the deaf and hard-of-hearing, ethical and professional concerns, the interface between mental health and other services, and psychological assessment and therapy issues and strategies.

**PSY 846. Behavioral Research Methods. (3 Credits)**

A. Prerequisite: departmental approval. Theory and methods of contemporary practice of behavioral assessment and single subject research design. Supervised practice in clinical applications of assessment methods. Review of relevant learning theory and behavioral principles.

**PSY 848. Intro to School Psychology. (3 Credits)**

A. Prerequisite: departmental approval. Theory observation, and supervised practice in the role of school psychologist. Includes systems analysis, the consultation process, and interprofessional relationships. Intervention skills appropriate for dealing with those problems.

**PSY 849. Advanced Developmental PSY. (3 Credits)**

(3) A. Prerequisite: Departmental approval. The development of individual difference in traits and behavior examined from the perspective of personality and developmental psychology. Selected coverage of both foundational and current theoretical and empirical literatures. Credit will not be awarded for both PSY 849 and PSY 847.

**PSY 850. Psychotherapy & Behav Change I. (3 Credits)**

A. Prerequisite: PSY 841 or departmental approval. A didactic and experiential introduction to the theories and techniques acilitative of personal growth and behavior change.

**PSY 853. Biological Bases of Behavior. (3 Credits)**

A. Prerequisite: departmental approval. A survey of the principles, research and methodology of psychophysiology, including consideration of the autonomic correlates of emotion and arousal, biofeedback, psychosomatic diseases, and psychophysiological correlates of psychopathology.

**PSY 855. Addressing Problem Behaviors. (3 Credits)**

A. Prerequisite: Departmental Approval. Review of principles, practices, and methods used to decrease problem behaviors as well as general intervention and behavior change procedures.

**PSY 857S. Child & Family Interventions. (3 Credits)**

A. Prerequisite: departmental approval. Conceptualization and intervention for childhood psychological disorders are reviewed and experienced through service learning pedagogy. Emphasis is on individual and group interventions. Credit will not be awarded for both PSY 857 and 857W.

**PSY 859. Cog/Affect Bases of Behavior. (3 Credits)**

Prerequisite: departmental approval. Broad survey of findings regarding cognitive and affective influences on behavior, including learning and conditioning, memory, and cognitive and affective processes. Credit will not be awarded to students who have credit for PSY 840.

**PSY 860. Psychotherapy & Beha Change II. (3 Credits)**

A. Prerequisite: PSY 850 or departmental approval. The in-depth study of techniques selected from those presented in PSY 850. Emphasis will be placed on developing proficiency in such skills and techniques.

**PSY 862. Statistic & Research Design II. (3 Credits)**

A. Prerequisite: PSY 820 or equivalent with department approval. Principles and techniques of scientific observation, control, and analysis, specifically oriented to multivariate research in psychology. Evaluation of research designs and their implementation in professional settings.

**PSY 863. Understanding Suicide. (3 Credits)**

A. Prerequisite: Admission in doctoral program or departmental approval. This seminar course will examine the topic of suicide in depth. Theoretical and empirical perspectives from public health, sociology, psychology, and genetics/neuroscience will be considered. Philosophical and ethical issues related to suicide will be explored, as will a special emphasis on clinical practice with suicidal patients.

**PSY 864. Child Psychopathology. (3 Credits)**

A. Prerequisite: PSY 848 or departmental approval. Course will focus on the theory, etiology, and context associated with psychopathology in school-aged children and adolescents.

**PSY 865. Psychological Consultation. (3 Credits)**

A. Prerequisite: departmental approval. Exploration of the theoretical and empirical underpinnings of psychological consultation process, and supervised practice in the provision of indirect psychological services.

**PSY 866. Adv Topics Applied Beha Analys. (3 Credits)**

A. Prerequisite: Departmental Approval. Introduction to advanced ethics and review of applied behavior analysis assessment, intervention, and ethics concepts and procedures within a case study format.

**PSY 868. Prog Eval in Soc Behav Sci II. (3 Credits)**

A. Prerequisite: PSY 820 or 862 or equivalent with departmental approval. Survey and application of program evaluation theory, designs, implementations and problems. Emphasis on preparing students to design and implement program evaluations of social, educational and organizational programs.

**PSY 869. Psychology of Trauma. (3 Credits)**

Prerequisite: departmental approval. Explores the psychological impact of various types of trauma. Introduces key elements of trauma research and practice, including assessment, diagnosis, theoretical models, and intervention.

**PSY 871. Group and Family Therapy. (3 Credits)**

A. Prerequisite: departmental approval. Theory and techniques of group and family therapy. Emphasis will be placed on developing and applying intervention skills.

**PSY 872. Selection & Perf Appraisal. (3 Credits)**

A. Prerequisite: PSY 790 or departmental approval. Psychological theory, research, and practice pertaining to the selection and appraisal of human resources in the workplace.

**PSY 873. Organizational Psychology. (3 Credits)**

A. Prerequisite: departmental approval. Examination of research, theory, and applications in organizational psychology. Topics include commitment, involvement, satisfaction, power, conflict, motivation, leadership, quality of work life, group/team processes, and organizational structure.

**PSY 874. Organization Change and Dev. (3 Credits)**

A. Prerequisite: departmental approval. Analysis of psychological theory, research and practice pertaining to organization change and development including the change process, culture, interventions, evaluation, consulting, and legal/ethical concerns.

**PSY 875. Training and Development. (3 Credits)**

A. Prerequisite: departmental approval. Graduate level survey of psychological theory, research, and practice utilized in the training and development of human resources in the workplace.

**PSY 880. Work Environment. (3 Credits)**

A. Prerequisite: departmental approval. Seminar examining the ways in which workers are influenced by the physical environment. Topics will include lighting, noise, temperature, aesthetics, privacy, crowding, territoriality, human factors, and ergonomics.

**PSY 881. Advanced Children's Assessment. (3 Credits)**

A. Prerequisite: departmental approval. Theory and research regarding psychological and psychoeducational problems of childhood and adolescence in the context of diagnostic criteria, including training in the use of adaptive behavior scales and measures for screening academic achievement.

**PSY 887. Independent Work in Psychology. (1-3 Credits)**

A. Prerequisite: approval of independent study proposal by faculty supervisor and department chair prior to enrollment. Student is responsible for conceptualization and investigation of research problem and drawing formal conclusions. May be retaken to a maximum of six hours provided a different problem is studied each time.

**PSY 888. Master's Research Project. (3 Credits)**

Empirical investigation of a selected topic in psychology, including submission of a report to the department.

**PSY 895. Building New Behaviors. (3 Credits)**

A. Prerequisite: Departmental Approval. Review of principles, practices, and methods used to increase desired behavior.

**PSY 896. Internship in School PSY. (3-6 Credits)**

(3-6) A. Prerequisite: Departmental approval. Intensive supervised experience in approved educational setting. May be retaken to a maximum of twelve hours. Graded Satisfactory/Unsatisfactory. A minimum of 1200 hours of work is required for the total twelve hours credit awarded.

**PSY 897. Special Topics in Psychology. (3 Credits)**

A. Selected topics for advanced graduate study. Topics will vary. May be retaken to a total of six hours, provided the subject matter differs each time.

**PSY 898. Thesis Research. (1-6 Credits)**

(1-6) A. Prerequisite: Departmental approval. Experimental investigation of a selected topic, including preparation of a formal report. May be retaken to a maximum of twelve hours. Graded Satisfactory/Unsatisfactory. A minimum of 1200 hours of work is required for the total twelve hours credit awarded.

**PSY 899A. Internship in Clinical Psych. (4 Credits)**

A. Prerequisite: departmental approval. Intensive supervised experience in an approved clinical setting. May be retaken to a maximum of twelve hours. Graded Satisfactory/Unsatisfactory.

**PSY 938. Doctoral Prac in Clinical Psyc. (1-4 Credits)**

(1-4) Prerequisite: PSY 838. Supervised experience in applied settings. Participation varies with student's course work and experience. Class meetings as arranged. May be retaken to a maximum of 21 credit hours.

**PSY 950. Clinical Supervision & Consult. (3 Credits)**

Prerequisite: departmental approval. Advanced seminar covering theories, issues, methods, and techniques in the supervision of psychotherapy and assessment. Consultation issues and models will also be examined.

**PSY 990. Doctoral Specialty Project. (3 Credits)**

A. Prerequisite: Departmental approval. Investigation of clinical best practices for a selected disorder. Requires a written report and oral presentation. May be retaken for a maximum of 12 hours. Graded Satisfactory/Unsatisfactory.

**PSY 999. Doctoral Intern in Clinic Psyc. (6 Credits)**

A. Prerequisite: Departmental approval. Intensive supervised experience in an approved external clinical setting. May be retaken to a maximum of 12 credit hours. Graded Satisfactory/Unsatisfactory.

## PUB Public Relations (PUB)

**PUB 305. Public Relations Research. (3 Credits)**

A. Prerequisite: PUB 375 or departmental approval. Introduction to the research process, research approaches, basic statistics, and applied research in public relations practice. Topics include evaluating scholarly literature, and collecting, interpreting, and applying relevant data in PR practice. Credit will not be awarded for students who have credit for PUB 420, COM 420, or CMS 305.

**PUB 320. Design for Mass Media. (3 Credits)**

I, II. Formerly COM 320 A-H. Introductory design course for non-designers presenting concepts, principles, terminology, tools, and techniques in computer-based design and production within public relations. Emphasis on media channels/audiences. Credit will not be awarded to students who have credit for JOU 320.

**PUB 325. Advertising Strategy and Practice. (3 Credits)**

Prerequisites: ENG 102 or ENG 105 with a B or HON 102. Introduction to copywriting and production for electronic, print and other advertising media. Emphasis on advertising strategy, motivation, appeals, visualization and layout. Applies research and communication theory to creation of advertising. Credit will not be awarded for both PUB 325 and PUB 325S, COM 325 or 325S.

**PUB 325S. Advertising Strategy and Practice. (3 Credits)**

Prerequisites: ENG 102 or ENG 105 with a B or HON 102. Using a service-learning-based approach, students learn copywriting and production for electronic, print and other advertising media. Topics included advertising strategy and practice, motivation, appeals, visualization and layout, applied research and communication theory. Credit will not be awarded for both PUB 325S and PUB 325, COM 325 or 325S.

**PUB 349. Applied Learning in Public Relations. (0.5-8 Credits)**

A. Prerequisites: junior standing, 2.0 average in all courses within the department, and departmental approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349A. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Prerequisites: junior standing, 2.0 average in all courses within the department, and departmental approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349B. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349C. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Work under faculty and field supervisors in cooperative placements related to the student's academic status. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349D. Co-op or Appl Lrn: Public Rel. (0.5-8 Credits)**

A. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349E. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Prerequisite: junior standing. "B" average in all courses within the department and department approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 349F. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Prerequisite: junior standing, "B" average in all courses within the department, and departmental approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirement within the department.

**PUB 349G. Cooperative Study: Public Relations. (0.5-8 Credits)**

A. Prerequisites: junior standing, "B" average in all courses within the department, and departmental approval. Work under faculty and field supervisors in cooperative placements related to the student's academic studies. One to eight hours credit per semester or summer. Total credit hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit. One hour may be used to satisfy major requirements within the department.

**PUB 375. Public Relations Principles. (3 Credits)**

I, II. Survey of principles and practices in disseminating information to internal and external audiences in business, industrial, educational, social and government agencies.

**PUB 380. Public Relations Writing. (3 Credits)**

I, II. Prerequisites: BEM 203 or COM 201 and PUB 375. Practice in public relations planning and writing for publications, media releases and other mass media materials for the public and special interest groups, including institutions, governments, and other organizations. Also includes writing in business formats.

**PUB 385. PR Event Planning & Management. (3 Credits)**

A. Prerequisite: PUB 375 with a grade of C or higher. Hands-on experience identifying a public relations goal and supporting it with a special event. Also includes specific planning procedures, communication methods and evaluation procedures. Credit will not be awarded for both PUB385 and PUB385S.

**PUB 385S. PR Event Planning & Management. (3 Credits)**

A. Prerequisite: PUB 375 with a grade of "C" or higher. Using a service-learning-based approach, students receive hands-on experience planning and managing an event supporting public relations goals specified by an actual client. Includes specific planning, execution and evaluation procedures. Credit will not be awarded for both PUB 385 and PUB 385S.

**PUB 390. Fundraising. (3 Credits)**

I, II. Prerequisite: PUB 375 or department approval. An overview of fundraising, including planning, organization, management, marketing, and the common sense needed to raise money from private sources. Credit will not be awarded for both PUB 390 and COM 390.

**PUB 395. Sports Promotion. (3 Credits)**

II. Prerequisites: ENG 102, 102R, ENG 105(B) or HON 102. Behind the scenes look at sports industry elements including public relations, sales, promotions, sponsorships, branding, marketing, social media and risk management. Credit will not be awarded for both PUB 395 and PUB 400 (Special Topics: Sports Promotion).

**PUB 400. Studies in Public Relations. (1-3 Credits)**

A. Prerequisite: departmental approval. Study of specific areas of Public Relations through a course examining timely or topical concerns in the field. Specific topic included in schedule. May be retaken to maximum of nine hours.

**PUB 410. Social Media and Public Relations. (3 Credits)**

(3) I, II. Prerequisite: PUB 375. Development and application of social media forms an design. Emphasis on social media as a strategic public relations tool in terms of institutional, social, and technological impact. Includes working with community partner(s) to strengthen an online presence.

**PUB 410S. Social Media & Public Rel. (3 Credits)**

I, II. Introduction to social media forms an design. Emphasis on social media as a public relations tool in terms of institutional, social, and technological impact. Includes working with community partner(s) to create an online presence.

**PUB 412. Web Marketing and Development. (3 Credits)**

I, II. Prerequisite: PUB 320, BEM 320 or JOU 320 with a grade of C or higher. An introduction to the communication theory, strategies, tools and techniques of Internet marketing and effective Web development. Emphasis on interactivity theory, interactive applications and functionality, graphics, and use of HTML and CSS. Credit will not be awarded to students who have credit for BEM 412 or JOU 412.

**PUB 415S. Public Relations in Performing Arts. (3 Credits)**

(3) I,II. Using a service-learning approach, students apply principles, traditional and contemporary tools, best practices, case studies, strategic planning and execution, and public relations management strategies toward a career in the performing arts or non-profit organizational management.

**PUB 420. Mass Communications Research. (3 Credits)**

I, II. Prerequisite: PUB 380(C) or departmental approval. Introduction to the research process, research approaches, basic statistics, and applied research in the field of mass communications. Credit will not be awarded for both PUB 420 and either COM 420 or CMS 305.

**PUB 425. Crisis & Risk Communication. (3 Credits)**

Prerequisites: PUB 375. Communicating the correct messages through proper methods and channels before, during, and after a crisis. Exploration of social media in crises. Identification and management of appropriate publics for crisis communication. Emphasis of avoiding miscommunication during crises, emphasis on follow-up after crises. Credit will not be awarded to students who have credit for PUB 400 Special Topics: Crisis Management.

**PUB 470. Public Relations Internship. (1-3 Credits)**

I, II. Prerequisites: BEM 203 or COM 201, PUB 375, PUB 380, 2.25 GPA for major and supporting courses. Supervised practical experience in a public relations operation. May be taken to a maximum of three hours.

**PUB 475. Advanced Public Relations. (3 Credits)**

A. Prerequisite: PUB 380. Emphasizes a management approach and application of the four-step PR process to solving public relations problems through planning, design, and production of print, audiovisual, and broadcast materials used in public relations. Includes public relations case studies and problems.

**PUB 480. Integrated Communications. (3 Credits)**

A. Prerequisite: PUB 375 with a grade of C or higher. Prerequisite or Corequisite: PUB 475. Examination of the interactions within an organization's overall communication efforts, including public relations, industrial and graphic design, organizational communication, and other related initiatives.

**PUB 490. Public Relations Campaigns. (3 Credits)**

A. Prerequisites: BEM 320 or PUB 320(C), PUB 475(C), and PUB 305(C). Application of research, planning, strategies, and evaluations to a public relations campaign. Includes budgeting and scheduling of campaigns. Credit will not be awarded for both PUB 490 and PUB 490S.

**PUB 490S. Public Relations Campaigns. (3 Credits)**

A. Prerequisite: BEM 320 or PUB 320(C), PUB 475(C), and PUB 305(C). Using a service-learning-based approach, students research, plan and prepare an integrated public relations campaign for a specified local business or organization client. Credit will not be awarded for both PUB 490 and PUB 490S.

**PUB 491. Senior Seminar in Public Relations. (1 Credit)**

I, II. Prerequisites: completion of 90 hours and PUB 380. Evaluates student's progress toward a career in public relations, especially the development of a portfolio, and develops job search strategies and skills. Includes assessment of instruction and curriculum. Credit will not be awarded to students who have credit for COM 491.

**PUB 499. Independent Study in Public Relations. (1-3 Credits)**

A. Prerequisite: Student must consult with the faculty supervisor and have the independent study proposal form approved by the faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of three hours.

**PUB 520. Integrated Public Relations Strategies. (3 Credits)**

A. Examines integrated public relations skills used to achieve organizational objectives. Emphasizes strategic planning including forecasting and communicating future business plans. Includes an in-depth look at relevant communication theories explaining common public relations problems and strategies.

**PUB 530. Sports Information. (3 Credits)**

A. Study of the role and function of the sports information director. Includes public relations techniques applied to sports information: news releases, publications programs, office and staff organization, time utilizations, news media and formats.

**PUB 720. Integrated PR Strategies. (3 Credits)**

A. Examines integrated public relations skills used to achieve organizational objectives. Emphasizes strategic planning including forecasting and communicating future business plans. Includes an in-depth look at relevant communication theories explaining common public relations problems and strategies.

**PUB 730. Sports Information. (3 Credits)**

A. Study of the role and function of the sports information director. Includes public relations techniques applied to sports information: press releases, publications programs, office and staff organization, time utilizations, news media, and formats.

## QMB Quantitative Methods (QMB)

**QMB 240. Managerial Decision Models. (3 Credits)**

I, II. Prerequisite: MAT 112 with a grade of "C-" or better. Introduction to quantitative decision methodology for business. Includes breakeven analysis for linear and nonlinear revenue and cost functions, analysis of project maximizing and cost minimizing output, inventory, peak cash, and other business analytical models. BBA degree candidates who complete MAT 211 with a "C-" or better are not required to take QMB 240.

**QMB 854. Topics in Quantitative Methods. (3 Credits)**

A. Prerequisite: QMB 850. Study of quantitative methods in the various functional areas of business: accounting, computer information systems, finance, management, and marketing. May be retaken to a maximum of six hours provided the topics are different.

## REC Recreation/Park Admin (REC)

**REC 101. Recreation and Tourism Careers. (1 Credit)**

I, II. Introduction to the broad scope of careers and employment in recreation, parks, and leisure services organizations.

**REC 102. Introduction to Recreation Leadership. (3 Credits)**

I, II. Techniques of leadership in working with individuals in groups in various settings. Methods of organization, guidance, and supervision of program activities.

**REC 110. SCUBA Confined Water. (1 Credit)**

I. Relationships of scuba diving to adventure tourism, introduction to scuba diving equipment and techniques in confined water settings. This course is prerequisite to REC 111 Scuba Diving- Open Water.

**REC 111. SCUBA Open Water. (1 Credit)**

II. Prerequisite: REC 110. Relationships of scuba diving to adventure tourism, introduction to SCUBA diving equipment and techniques in open water settings. This course will be conducted over a 2.5 day period at an off-campus dive site.

**REC 112. Intr to Hiking and Backpacking. (1 Credit)**

(1) A. This course introduces students to the basic concepts, physical skills, technical skills and environmental ethics required for hiking and backpacking.

**REC 113. Intro Kayaking and Canoeing. (1 Credit)**

(1) A. This course introduces students to the basic concepts, physical skills, technical skills and environmental ethics required for Kayaking and Canoeing.

**REC 114. Intro to Mountain Biking. (1 Credit)**

(1) A. This course introduces students to the basic concepts, physical skills, technical skills and environmental ethics required for Mountain Biking.

**REC 163. Fieldwork I. (1 Credit)**

A. On-site observation and assistance within a recreation, park or leisure services agency. Observe and assist with recreation activities, programs and special events.

**REC 180. Outdoor Adventure Activities. (1 Credit)**

(1) I. Outdoor adventure course where students will gain skills in hiking, rock climbing, kayaking, caving, rafting, sailing, mountain biking, horseback riding, backpacking, snorkeling, and snow skiing. Students will attend skill-based workshops.

**REC 190. Challenge Course Introduction. (1 Credit)**

A. Outdoor-based experiential focus using the ECU Challenge Course, climbing tower, and group initiatives.

**REC 200. Leisure Diversity and Culture. (3 Credits)**

I, II. Examination of personal, philosophical, cultural diversity, economic, behavioral, and historical dimensions of play, recreation and leisure; evolution of leisure lifestyles; impact of leisure on the quality of life; and knowledge of professional roles.

**REC 210. Equine Assisted Therapeutic Recreation. (3 Credits)**

(3) I. Prerequisite: OTS 205 or departmental approval. Introduction to Equine Assisted Activities and Therapies (EAAT). The history and application of EAAT and the general emotional, physical and medical benefits of EAAT for individuals with diverse needs. This course provides hands on activities with a local program.

**REC 225. Recreation Hobbies. (3 Credits)**

A. Comprehensive study of recreation services and leisure education; emphasis on leisure time skills, hobbies, avocations, and lifetime recreation; utilization of constructive leisure from youth to senior adults including the disabled person.

**REC 250. Tourism Videography and Social Media. (3 Credits)**

II. An examination in tourism and recreation video production, with emphasis in field production and social media. The course combines theory, history and practice. Hands-on demonstrations, screenings, readings, lectures and discussion prepare students to develop skills in outdoor video production.

**REC 263. Fieldwork II. (2 Credits)**

A. Prerequisite: REC 163. On-site practical experience in a recreation, park, or leisure services agency. Organize and lead recreation programs.

**REC 270. Introduction to Rock Climbing. (3 Credits)**

A. This course introduces students to concepts, physical skills, technical skills and philosophical ethics required for indoor and outdoor rock climbing.

**REC 280. Programming Special Events. (3 Credits)**

A. Introduction to the methods and techniques of delivering fairs, festivals and special events. Course focuses on the principles and concepts of event planning, management, marketing, and evaluation.

**REC 290. Adventure Programming. (3 Credits)**

A. Application of adventure programming delivered experientially through problem solving activities, program design and technical skill development. Planning and implementation, facilitation strategies, safety procedures, equipment management, personnel administration, and program design are addressed.

**REC 300. Civic Engagement Experiences. (1-3 Credits)**

(1-3) I, II. Prerequisite: Sophomore, Junior, or Senior standing. Students will engage in structured civic engagement activities by completing community projects. Students will work as a group toward enhancing the local environment or community. This course blends an ongoing academic focus with experiential learning and service experiences. May be retaken to a maximum of six credit hours.

**REC 311. Introduction to Therapeutic Recreation. (3 Credits)**

I, II. An introductory course focusing on individuals with a variety of disabilities, legislation, barriers, accessibility, basic terminology, and awareness of special recreation, recreation therapy, sports, and the needs of individuals with disabilities.

**REC 325. Camp Supervision. (3 Credits)**

II. Supervision of camp programs, auxiliary services, and personnel.

**REC 349. Applied Learning in Recreation and Park Administration. (0.5-8 Credits)**

A. Prerequisite: department chair approval. Agency supervised fieldwork course. Minimum of 80 clock hours for each academic credit. Students must register with the Cooperative Education Office.

**REC 349A. Cooperative Study: Recreation and Park Administration. (0.5-8 Credits)**

A. Prerequisite: department chair approval. Agency supervised fieldwork course. Minimum of 80 clock hours for each academic credit. Students must register with the Cooperative Education Office.

**REC 349B. Cooperative Study: Recreation and Park Administration. (0.5-8 Credits)**

Agency supervised fieldwork course. Students must register with the Cooperative Education Office.

**REC 349C. Cooperative Study: Recreation and Park Administration. (0.5-8 Credits)**

Agency supervised fieldwork course. Students must register with the Cooperative Education office.

**REC 350. Supervision of Recreation Personnel. (3 Credits)**

A. Analysis of skills and techniques utilized in effective supervision of park, recreation, and leisure service personnel.

**REC 380. Natural Resource Tourism. (3 Credits)**

A. Issues in understanding natural resource tourism, sustainability, tourism lifecycle, impacts associated with natural resource tourism, and effective management. Theoretical approaches, case studies and applications. Emphasis on student participation and discussion.

**REC 401. Management of Recreation Services. (3 Credits)**

A. Management concepts and processes, organizational structure, policies, personnel, budget, and fiscal management, marketing and public relations, legal issues, and risk management.

**REC 406. Planning, Design, and Maintenance of Recreation Facilities. (3 Credits)**

II. Planning principles and procedures of recreation and park areas. Facilities, design problems, details of structure and equipment, master planning methods, study of standards and trends.

**REC 409. Independent Study. (1-3 Credits)**

A. Prerequisite: for majors and minors only. Independent study of special topics through directed readings and research. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken up to six hours.

**REC 410. Recreation Research & Evaluation. (3 Credits)**

II. Assessment and evaluation of recreation needs, interests, and agency effectiveness. Research processes including marketing and budgeting as related to recreation services will be the focus of this course.

**REC 411. Therap Rec Serv For Sr Adult. (3 Credits)**

I. Leisure problems, needs, assessments and etiology of the aging population. Basic terminology, organizations, programming, trends, resources, and facilities. Introduction to geriatrics.

**REC 411S. Therapeutic Recreation Services for Senior Adult. (3 Credits)**

I. Explores successful aging and the benefits of recreation therapy for seniors. The course includes a service learning project with a community partner determining the recreation needs of seniors, preventative lifestyle changes and opportunities for meaningful activities. Credit will not be awarded for both REC 411S and REC 411.

**REC 450W. Senior Seminar. (3 Credits)**

(3) I, II. Prerequisites: ENG 102 or 102R, 105(B), or HON 102 and for Recreation and Park Administration majors only; enroll the semester immediately preceding REC 463 or REC 473. Introduction to the senior internship and professional requirements. Study of trends in recreation practices. Development of a professional philosophy.

**REC 460. Advanced Leadership and Programming. (3 Credits)**

I, II. Prerequisite: REC 102. Comprehensive course in recreation program planning, development, and leadership techniques with individuals and groups. Students plan a seasonal program. 2 Lec/2 Lab.

**REC 463. Internship. (12 Credits)**

A. Prerequisites: 2.0 GPA; REC core and REC option courses. Placement in a recreation agency to lead and develop recreation programs, supervise personnel and facilities, and perform administrative duties. A minimum of 480 clock hours typically covering 12 or more weeks.

**REC 473. Therapeutic Recreation Internship. (12 Credits)**

I, II. Prerequisite: All REC Core and RT Concentration Courses with a 2.0 GPA. Placement in a recreation therapy agency to lead and develop recreation therapy programs, supervise clients, facilities, and perform administrative duties. A minimum of 560 clock hours typically covering 14 weeks.

**REC 480. Resort Recreation Management. (3 Credits)**

A. Prerequisite: REC 280. Investigation of the methods and techniques of resort recreation management, and its position within the tourism and hospitality industries. Examines customer service and marketing, international markets, human resources, and fiscal implications.

**REC 481. Research Methods in Tourism. (3 Credits)**

A. Prerequisites: REC 280 and REC 380. Introduction to the methods and techniques of tourism research. Student competencies include understanding, interpreting, and applying research to tourism related services.

**REC 490. Challenge Course Management. (3 Credits)**

A. Prerequisite: REC 290. Advanced leadership and facilitation techniques for challenge course management. Designed for individuals who have experience on challenge courses and need additional training.

**REC 511. Therapeutic Recreation Practices and Services. (3 Credits)**

I, II. Interventions and utilization of terminology. Apply leadership skills, assistive technology, and programming applications. 2 Lec/2 Lab.

**REC 512. Mgmt of Therapeutic Rec Serv. (3 Credits)**

Management concepts applied to delivering therapeutic recreation services, and includes: documentation, activity analysis, assessment, liability, legislation, and standards of practice.

**REC 512S. Management of Therapeutic Recreation Services. (3 Credits)**

I, II. Prerequisite: for majors only. Management concepts applied to delivering recreation therapy services, and includes: documentation, activity analysis, assessment, liability, legislation, and standards of practice. Includes 15 service learning hours.

**REC 516. Recreation and Park Interpretive Services. (3 Credits)**

The interpretation of natural, historical and cultural resources in recreation and park settings. Frequent agency visits and educational field seminars are components of this course.

**REC 520. Trends and Issues in Therapeutic Recreation. (3 Credits)**

A. Pre-requisite: REC 311. A professional issues and trends discussion on topics related to recreation therapy such as clinical practice, licensure, legislative and regulatory issues, curricular standardization, professional ethics and other relevant professional topics.

**REC 530. Park Management. (3 Credits)**

II. Park purposes and operations with an emphasis on natural resources and visitor management. Concentration on design, resource conservation and preservation, public relations, and park policies.

**REC 590. Special Topics:\_\_\_\_. (1-3 Credits)**

A. Identification and study of specialized techniques in recreation leadership, activity skills, operational methods, and services. May be retaken under different workshop title.

**REC 711. Rec Therapy Prac & Services. (3 Credits)**

II. Interventions and utilization of terminology. Apply leadership skills, assistive technology, and programming applications. 2 Lec/2 Lab.

**REC 712. Mgmt of Therapeutic Rec Serv. (3 Credits)**

Management concepts applied to delivering therapeutic recreation services, and includes: documentation, activity analysis, assessment, liability, legislation and standards of practice.

**REC 712S. Mgmt of Rec Therapy Services. (3 Credits)**

I. Prerequisite: for majors only. Management concepts applied to delivering recreation therapy services, and includes: documentation, activity analysis, assessment, liability, legislation, and standards of practice. Includes 15 service learning hours.

**REC 716. Rcrtn & Prk Interpretive Srvcs. (3 Credits)**

The interpretation of natural, historical and cultural resources in recreation and park settings. Frequent agency visits and educational field seminars are components of this course.

**REC 720. Trends/Issues in Rec Therapy. (3 Credits)**

A. Professional issues and trends discussion on topics related to recreation therapy such as clinical practice, licensure, legislative and regulatory issues, curricular standardization, professional ethics and other relevant professional topics.

**REC 730. Park Management. (3 Credits)**

II. Park purposes and operations with an emphasis on natural resources and visitor management. Concentration on design, resource conservation and preservation, public relations, park policies.

**REC 790. Special Topics:\_\_\_\_\_. (1-3 Credits)**

A. Identification and study of specialized techniques in recreation leadership, activities skills, operational methods, and services. May be retaken under different subtitle.

**REC 800. Literature Analysis in Rec. (1 Credit)**

I. Individualized study of recreation and park administration designed for students entering the graduate program without a degree in recreation, parks, or tourism. It is recommended that this course be completed before taking classes in the graduate program. This course must be passed with at least a B grade.

**REC 801. Park, Rec & Tour Resrch Methds. (3 Credits)**

II. Emphasis will be on applied research methods in the field of parks, recreation, leisure and tourism. Prepares students to understand and identify appropriate data collection methods, sampling, questionnaire design, data analysis, and interpretation of research literature.

**REC 809. Advanced Study in Recreation. (3 Credits)**

A. Prerequisite: REC 801. Directed study of topics in recreation and leisure. An advanced study project and individual meetings with instructor are required. An advanced study proposal from must be approved prior to enrollment.

**REC 815. Internship. (1-3 Credits)**

A. Prerequisite: department chair approval. Supervised practical work experience in a clinical or administrative setting.

**REC 825. Phil of Recreation and Leisure. (3 Credits)**

I. Examination of recreation theory and practice from both research and empirical bases. Significance of leisure and recreation for the individual and society. Recreation's future in a changing cultural milieu.

**REC 830. Outdoor Rec. in America. (3 Credits)**

I. A study and analysis of outdoor recreation policy development and agency management. Includes the development of natural and historical interpretive services.

**REC 840. Admin Proc & Pract. (3 Credits)**

II. Principles and concepts of administration, in-depth investigation of budgeting, policy formulation, and legislative provisions.

**REC 850. Recreation & Tourism Marketing. (3 Credits)**

I, II. The purpose of this course is to provide the student with an in-depth understanding of marketing in the public and commercial recreation sectors, parks, and leisure services.

**REC 870. Rec Therapy Quality Assurance. (3 Credits)**

I, II. Examine the components of quality assurance and techniques for evaluation related to programs, management, and patient outcomes in therapeutic recreation settings.

**REC 871. Therapeutic Recreation Admin. (3 Credits)**

I, II. Understand the characteristics of management, administrative management, as related to human services in therapeutic recreation.

**REC 890. Independent Study in REC. (3 Credits)**

I, II, A. Student must have the independent study proposal form approved by the graduate program director and chair prior to enrollment. Student initiated directed study for the purpose of conducting research and examining issues in park, recreation, and leisure services. May be retaken up to six hours, provided the topics are different.

**REC 897. Thesis. (3-6 Credits)**

A. Designed for students preparing a thesis in partial fulfillment of the requirements for the master's degree program.

## REL Religion (REL)

**REL 301. World Religions. (3 Credits)**

I, II. Study of the basic notions found in the world's great religions. Attention is given to the historical context of the development of these religions and to the doctrines, rituals and literature produced by them. Credit will not be awarded to students who have credit for REL 301W. Gen. Ed. Element 3B.

**REL 301W. World Religions: Writing Intensive. (3 Credits)**

I, II. Prerequisite: ENG 102, or ENG 105 (B), or HON 102 (B). Study of the basic notions found in the world's great religions. Attention is given to the historical context of the development of these religions and to the doctrines, rituals and literature produced by them. Credit will not be awarded to students who have credit for REL 301. Gen. Ed. IIIB or VII (AH).

**REL 302. Theories of Religion. (3 Credits)**

(3) A. Prerequisite: ENG 102 or ENG 105(B) or HON 102. An overview of methods used by scholars to study religions, and a introduction to several influential theories that have shaped the field of religious studies from the nineteenth century to the present.

**REL 305. Survey of Old Testament. (3 Credits)**

I. A survey of the history and religious development of the ancient Hebrews, with attention given to the religious concepts and values of the literature of the Old Testament.

**REL 306. Survey of the New Testament. (3 Credits)**

II. A study of the history of the New Testament times and an examination of the meanings and significance of the teachings of Jesus and the writings of the early Church.

**REL 315. History of Christian Thought. (3 Credits)**

A. A survey of Christian theology, philosophical theology, and spirituality from the Apostolic Fathers through the early Reformation period.

**REL 320. Judaism. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105(B) or HON 102. This course introduces students to the main beliefs and practices of Judaism. Students will read a broad selection of primary sources ranging from the Hebrew Bible to contemporary Jewish thought in the United States. Gen. Ed. Element 6.

**REL 335. Islam. (3 Credits)**

A. Prerequisite: ENG 102 or 105(B) or HON 102. A study of the origins and religious development of Islam by an examination of the Koran and the writings of some major Islamic thinkers. GEN. ED. E-6.

**REL 340. Religions of India. (3 Credits)**

A. Prerequisite: ENG 102 or 105(B) or HON 102. Study of the major religions of India including the Vedic Period, classical systems, Epic Period, heterodox systems, orthodox systems, and contemporary thought. Gen Ed. Element 6.

**REL 345. Religions of China and Japan. (3 Credits)**

A. Prerequisite: ENG 102 or Eng 105(B) or HON102. Study of the major religions of China and Japan, including original Han, Confucianism, Cho Schools, Neo-Taoism, Shinto, and Chinese and Japanese Buddhism. Gen. Ed. E-6.

**REL 349. Applied Learning in Religion. (1-8 Credits)**

A. Prerequisite: consult with department chair before enrolling. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**REL 349A. Cooperative Study: Religion. (1-8 Credits)**

A. Prerequisite: consult with department chair before enrolling. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**REL 350. Buddhism. (3 Credits)**

A. Prerequisite: ENG 102 or 105(B) or HON 102. A critical introduction to the main beliefs and practices of Buddhism, from its origins in India to its most traditional manifestations in Asia and its latest developments in Europe and North America. Gen. Ed. E-6.

**REL 355. Religions of Africa. (3 Credits)**

A. A study of traditional African religions and other religions in Africa.

**REL 360. Religion & Global Ethics. (3 Credits)**

A. An examination of recent proposals for a global ethics (Peter Singer, Hans Kung, Dalai Lama), and on the theory and practice of interreligious dialogue as a possible means to arrive at cross-cultural ethical perspectives.

**REL 365. Women, Gender, and Religion. (3 Credits)**

(3) A. Cross-listed as WGS 365. Prerequisite: ENG 102 or 105(B) or HON 102. A study of the intersections between feminism and the social impact of religion throughout the world with particular emphasis on the relationship between religion and gender, sexuality, and body politics. Credit will not be awarded for both REL 365 and WGS 365.

**REL 370. Special Topics in Religion. (1-3 Credits)**

A. Prerequisite: consult with department chair before enrolling. Intensive study of a selected topic or an important figure in religion. May be retaken to a maximum of fifteen hours if the topic is different.

**REL 495. Independent Work in Religion. (3 Credits)**

I, II. Prerequisite: consult with department chair before enrolling. Individual study under the direction of an instructor on a special topic in religion. Students must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours if topic is different.

## RMI Risk Management & Insur (RMI)

**RMI 349. Applied Learning in Insurance. (0.5-8 Credits)**

A. Formerly INS 349. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded for INS 349.

**RMI 349A. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit Will not be awarded for students who have credit for INS 349A.

**RMI 349B. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349B. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded for students who have credit for INS 349B.

**RMI 349C. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349C. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit can not be awarded to students who have credit for INS 349C.

**RMI 349D. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349D. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit can not be awarded to students who have credit for INS 349D.

**RMI 349E. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349E. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded to students who have credit for INS 349E.

**RMI 349F. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349F. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded to students who have credit for INS 349F.

**RMI 349G. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349G. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded to students who have credit for INS 349G.

**RMI 349H. Coop Study in Insurance. (0.5-8 Credits)**

A. Formerly INS 349H. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. Six hours may be used as a major elective. May be repeated for a total of 16 credit hours. Credit will not be awarded to students who have credit for INS 349H.

**RMI 350. Survey of Risk Mgmt. & Insur.. (3 Credits)**

Prerequisite: Instructor approval. The examination of risk management and insurance concepts and principles with an emphasis on application. Coverage will include a broad base of current topics and tools used in this dynamic area and provide the student the background for improved decision making in dealing with risk.

**RMI 370. Principles of Risk and Insurance. (3 Credits)**

I, II. Formerly INS 370. Theory and practice of insurance and its economic and social significance; basic life, health, and property liability insurance for organizations and families; review of the major lines of insurance. Credit will not be awarded to students who have credit for INS 370.

**RMI 372. Commercial Property Risk Management and Insurance. (3 Credits)**

A. Formerly INS 372. Prerequisite: RMI 370 or instructor approval. Planning and evaluating commercial property risk and the effective management of these risks with insurance; application and analysis of insurance coverage against pure risk related to commercial property insurance exposure. Credit will not be awarded to students who have credit for INS 372.

**RMI 374. Fundamentals of Life and Health Insurance. (3 Credits)**

A. Formerly INS 374. Prerequisite: RMI 370 or instructor approval. Analysis of life and health insurance and annuity products available in the individual market. Includes a discussion of systems for determining the individual's life and health insurance needs. Credit will not be awarded to students who have credit for INS 374.

**RMI 376. Excess & Surplus Lines. (3 Credits)**

I, II. Prerequisites: RMI 370 or 372 (with a minimum grade of "C" in either course). The course explains the function of the non-admitted insurers and the policies they issue in the excess and surplus lines market. The course also covers the function and purpose of reinsurance.

**RMI 378. Risk Management. (3 Credits)**

A. Formerly INS 378. Risk Management as used by organizations; basic functions of risk management with emphasis placed on risk management decision making. Credit will not be awarded to students who have credit for INS 378.

**RMI 380. Personal Risk Management. (3 Credits)**

A. Formerly INS 380. Prerequisite: RMI 370 or instructor approval. An intensive examination of personal loss exposures and their treatment. Emphasized is the use of risk management techniques. Topics include property and liability loss exposures for personal automobile, homeowners, premature death, illness, accidental injury, superannuation, investment risks, and estate planning. Credit will not be awarded to students who have credit for INS 380.

**RMI 382. Claim Handling Principles and Practices. (3 Credits)**

A. Prerequisites: 60 hours or departmental approval. Course covers how to apply claims handling principles and claim investigation techniques including; the claim function and professional ethics, handling process, investigation, documentation requirements, negotiation and settlement, and application of the unfair claims practices act.

**RMI 400. Seminar in Insurance. (1-3 Credits)**

A. Formerly INS 400. Prerequisite: instructor approval. Selected topics of special and contemporary interest to insurance majors. May be retaken under different subtitles to a maximum of six hours. Credit will not be awarded to students who have credit for INS 400.

**RMI 462. Business Law for Insurance. (3 Credits)**

A. Prerequisites: RMI 370 and 372 (with a grade of "C" or better in each course). Covers the law of contracts, property, UCC, torts and agency as specifically applicable to the insurance industry.

**RMI 474. Life Insurance and Estate Planning. (3 Credits)**

A. Formerly INS 474. Prerequisite: RMI 374 or instructor approval. Role of life insurance, gifting and trusts in estate planning; considerations of developing an estate plan for the individual or the family. Credit will not be awarded to students who have credit for INS 474.

**RMI 476. Employee Benefit Planning. (3 Credits)**

A. Prerequisite: RMI 370 or instructor approval. Employee benefit plans including taxation, costs, and choices of funding. Includes an analysis of the role of employee benefit plans in meeting the risks of death, sickness, disability and superannuation. Credit will not be awarded to students who have credit for INS 476.

**RMI 486. Insurance Company Operations. (3 Credits)**

A. This course examines unique insurance functions including underwriting, reinsurance, ratemaking, claims adjusting, loss control and other insurer activities. It will prepare the student for an examination administered by the American Institute for CPCU. Capstone course. Credit will not be awarded to students who have credit for INS 486.

**RMI 490. Independent Study. (1-6 Credits)**

A. Formerly INS 490. Prerequisite: advisor/departmental approval. May be retaken under different sub-topics to a maximum of six hours. Independent work, special workshops, special topics, or seminars. Student must have the independent study course proposal form approved by faculty supervisor and department chair prior to enrollment. Credit will not be awarded to students who have credit for INS 490.

## RST Real Estate (RST)

**RST 349. Co-op or Appl Lrn: Real Estate. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. May be repeated for a total of 16 credit hours.

**RST 349A. Co-op or Appl Lrn: Real Estate. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. May be repeated for a total of 16 credit hours.

**RST 349B. Co-op or appl Lrn: Real Estate. (0.5-8 Credits)**

A. Prerequisites: minimum GPA of 2.25 and 60 credit hours. Co-op Coordinator approval is required. Approved work experience directly related to academic major and/or career goals. Minimum of 80 hours work required per credit hour. May be repeated for a total of 16 credit hours.

## SCO Acad Orientation - Science (SCO)

**SCO 100. Student Success Seminar. (1 Credit)**

I, II. An introduction to the programs of the University and the College of Science. Discussion of how to study, what to consider in choosing a profession, and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**SCO 100B. Student Success Seminar in Biology. (1 Credit)**

I, II. Prerequisite: Biology majors only. An introduction to the programs of the University and College of Science, specifically for Biology majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**SCO 100C. Student Success Seminar in Chemistry. (1 Credit)**

I, II. Prerequisite: Chemistry majors only. An introduction to the programs of the University and College of Science, specifically for Chemistry majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**SCO 100I. Student Success Seminar in Computer Science. (1 Credit)**

I, II. Prerequisite: Computer Science majors only. An introduction to the programs of the University and College of Science, specifically for Computer Science majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**SCO 100M. Student Success Seminar in Mathematics and Statistics. (1 Credit)**

I, II. Prerequisite: Mathematics and Statistics majors only. An introduction to the programs of the University and College of Science, specifically for Mathematics and Statistics majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**SCO 100P. Student Success Seminar in Physics. (1 Credit)**

I, II. Prerequisite: Physics majors only. An introduction to the programs of the University and College of Science, specifically for Physics majors. Discussion of how to study, what to consider in choosing a profession and what career opportunities exist for graduates from the College's programs. Additional topics include University regulations and calendar, catalog details, registration, and program requirements. All new students are expected to enroll in a Student Success Seminar their first semester at the University.

**SCO 349. Applied Learning in Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349A. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349B. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349C. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349D. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349E. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349F. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349G. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349H. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349I. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349J. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349K. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349L. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349M. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 349N. Cooperative Study: Science. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. .5-8 hours credit per semester or summer. Total hours: 8. A minimum of 80 hours of employment required for each semester hour of academic credit.

**SCO 400. MCAT Preparation. (2 Credits)**

(2) I. Pre- or Co- requisite CHE 430 or 431, or departmental approval. This course is designed to help students prepare for the MCAT. It is open to students planning on taking the MCAT within one year. Students are expected to drill MCAT sections, bring questions to meetings, and work with their classmates to improve skills. Each section of the MCAT will be reviewed. Students will also work on test taking strategies, critical reading, and critical thinking. 2 Lec.

## SEC Security Management (SEC)

**SEC 110. Principles of Security Management. (3 Credits)**

(3) A. Examination of how security professionals in private and government organizations identify, prioritize and manage security risks; role of private security in public safety and homeland security; and multiple career options in the security profession.

**SEC 250. Personnel Security. (3 Credits)**

A. Ensuring employee and contractor integrity through background screening, security awareness and ethics programs, and adults. Review of special programs to protect key personnel, employees in high risk environments, and to mitigate workplace violence.

**SEC 260. Security and Loss Prevention. (3 Credits)**

A. Protecting retail operations and inventories against loss from internal and external threats and administrative errors. Developing cost effective programs for policy, physical and human controls to prevent loss.

**SEC 349. Applied Learning in SEC. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349A. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349B. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349C. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349D. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349E. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349F. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349G. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349H. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349I. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349J. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349K. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349L. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349M. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

**SEC 349N. SEC Cooperative Study. (0.5-9 Credits)**

(.5-9) A. Prerequisites: Departmental Approval. The student works under faculty and field supervisors in placements related to the student's academic studies. A minimum of 80 hours work required for each academic credit. May be retaken to a maximum of nine hours.

## SED Special Education (SED)

**SED 104. Special Education Introduction. (3 Credits)**

I, II, A. Overview of major categories of exceptionalities and the educational, legal, and social issues in the area of disabilities and special education. Observations/participation through field experience required. Gen. Ed Element 6.

**SED 207. Topics in Special Education. (1-3 Credits)**

A. Work related to current issues and topics in special education, special workshops, special seminars. May be retaken with a maximum of nine hours.

**SED 240. Com Skills for Hearing Imp. (3 Credits)**

I. Basic principles of manual communication and fingerspelling. Builds an expressive and receptive vocabulary of a least 1,000 signs to enable communication with individuals who use total communication.

**SED 260. Language and Speech Disorders of Exceptional Children. (3 Credits)**

I, II. Acquisition of normal language and speech in our multi-cultural society. Identification and educational management of language and speech disorders in exceptional children.

**SED 270. Technology/Strategies for MSD. (3 Credits)**

II. Formerly SED 530. The implementation of computer technology and assistive/adaptive devices and strategies for students with multiple and severe disabilities including dual sensory. The use of Milieu language strategies and symbolic/non-symbolic communication in natural environments and daily routines. Credit will not be awarded to students who have credit for SED 530.

**SED 305. Behavior Disorders. (3 Credits)**

A. Formerly SED 578. Prerequisite: ENG 102, or HON 102 with a grade of "C" or better, or ENG 105 with a grade of "B" or better. Open to non-majors. Behavior disorders and/or emotional disturbances as an educational, psychological, and sociological phenomenon. Definitions, characteristics, theoretical foundations, programmatic approaches. Credit will not be awarded to students who have credit for SED 578.

**SED 318. Special Education in Early Childhood. (3 Credits)**

I, II. Formerly SED 518. Prerequisites: SED 104; Prerequisite or Corequisite SED 260 or CDS 360; or department approval. Overview of history, philosophy, legislation and services for young children (0-5) at-risk for or with disabilities, including impact and intervention across developmental domains. Credit will not be awarded to students who have credit for SED 518.

**SED 337. Education of the Deaf and Hard of Hearing. (3 Credits)**

(2) A. Study of personality, intellectual, and emotional development of the deaf and hard of hearing. Emphasis on social maturity, motor functioning, multiple disabilities and the significant history of educational programs at all levels.

**SED 341. Behavior Management. (3 Credits)**

I, II. Techniques of behavioral management of exceptional students in educational settings. Applied behavior analysis data collection, intervention, and reporting. Practical procedures for teaching new behaviors. Open to non-majors.

**SED 350. Introduction to Special Education Assessment. (3 Credits)**

II. Formerly SED 576. Prerequisites: MAT 105 (or higher) or STA 215 (or higher) (C); SED 104 (C); and admission to professional education. Corequisites: CED 400 and SED 390. Principles of tests and measurements. Test administration, scoring, and interpretation applied to exceptional children. Application of assessment data to interdisciplinary teams. Credit will not be awarded to students who have credit for SED 576.

**SED 351. Special Educational Assessment. (3 Credits)**

I, II. Prerequisite: SED 104. Principles and application of educational assessment of learning and behavior disordered students. Educational interpretation of assessment outcomes.

**SED 352. Special Education Early Childhood Assessment. (3 Credits)**

II. Prerequisite: SED 104. Formal and informal procedures for screening and assessing young children (0-5) with disabilities or at-risk conditions in physical, communication, cognitive, psychosocial and self-help areas.

**SED 356. Methods and Materials for LBD. (3 Credits)**

A. Prerequisites: SED 104 (C) and admission to professional education. Co-requisite: CED 300 or CED 400. Instructional principles and methodology; development, implementation, and evaluation of validated educational programs and materials for LBD.

**SED 375. Practicum in Special Education. (3 Credits)**

I, II. Prerequisite: SED 510(C) or 350(C). Corequisite: CED 450. Candidates will interact with P-12 students with disabilities (IEPs) in educational settings through teaching, student engagement, assessment, and collaboration. Minimum 168 contact hours required.

**SED 390. Applied Behavior Analysis. (3 Credits)**

I, II. Formerly SED 590. Prerequisites: SED 104 (C) and admission to professional education, communication disorders major, SED minors, or departmental approval. Corequisite: CED 400 for ELE/LBD, ELE/DHH, MG/DHH, or MG/LBD majors. Behavior analysis applied to classroom and instructional management. Development of skills in data collection, intervention procedures, and evaluation of behavior change. Credit will not be awarded to students who have credit for SED 590.

**SED 401. Divers Lrnrs in Mid/Secondary. (3 Credits)**

I, II. Prerequisite: admission to teacher education. Principles for teaching and accommodating exceptional learners. Instructional modifications, management and collaboration across content areas. 20 field/clinical hours. Credit will not be awarded to students who have credit for SED 401S.

**SED 401S. Divers Lrnrs in Mid/Secondary. (3 Credits)**

I, II. Prerequisite: admission to teacher education. Principles for teaching and accommodating exceptional learners in educational settings. Instructional modifications, management, and collaboration across content areas. 20 field/clinical hours of service learning. Credit will not be awarded for both SED 401 and 401S.

**SED 402A. Differentiated Instruction. (3 Credits)**

(3) I,II Prerequisites: EDF 319, ELE, 445, admission to teacher education. Co-requisites: ELE 446 or 446W, ELE 491, ELE 492, ELE 493. Differentiating instruction for exceptional learners in elementary settings. Collaboration and planning to address diverse learners. 20 field/clinical hours.

**SED 402B. Differentiated Instruction. (3 Credits)**

(3) I,II Prerequisites: EDF 319, ELE, 445, admission to teacher education. Co-requisites: ELE 446 or 446W, ELE 491, ELE 492, ELE 493. Differentiating instruction for exceptional learners in elementary settings. Collaboration and planning to address diverse learners. 20 field/clinical hours.

**SED 436. Early Intervention Programming. (3 Credits)**

A. Prerequisite: Admission to Professional Education or departmental approval. Developmental, family-focused intervention methods, materials and programs for young children (0-5) at-risk for or with disabilities. Curriculum design across physical, communication, cognitive, psychosocial and self-help areas. Planning, implementing, monitoring and evaluating IEPs/IFSPs.

**SED 445. IEP Transition and Professional Roles in Special Education. (3 Credits)**

I, II. Formerly SED 545. Prerequisite: admission to professional education or departmental approval. Working with interdisciplinary team, including family, to design and implement IEP including instruction, related services, and transition for employment and community living. Collaboration strategies, and personnel, and records management. Credit will not be awarded to students who have credit for SED 545.

**SED 450. Assessment and Methods for Deaf and Hard of Hearing. (3 Credits)**

II. Formerly SED 510. Prerequisites: SED 260 (C), admission to professional education, or department approval. Corequisite: CED 400. Standardized and informal assessments used to measure reading and content knowledge of deaf and hard of hearing students. Principles and procedures in assessing, evaluating pupil growth, and IEP development. Sample curricula and High Leverage instructional strategies used with students who are deaf and hard of hearing. Credit will not be awarded to students who have credit for SED 510.

**SED 504. Assistive/Adaptive Technology. (3 Credits)**

I, A. Classroom use and modification of computer technology and assistive/adaptive devices. Integratio of assistive technology into assessments, IEPs, lesson plans, education activities, and daily routines. 1.5 Lab.

**SED 538. Language of the Deaf and Hard of Hearing. (3 Credits)**

(3) A. Formerly: SED 338. Prerequisite: SED 260 or departmental approval. Receptive and expressive conversational language development and written language acquisition from a developmental perspective. Concepts in bilingual education applied to deaf. Methods to assess and facilitate language development.

**SED 574. Field Experiences with Exceptional Learners. (3 Credits)**

A. Prerequisite: departmental approval. A practicum experience with exceptional individuals. Emphasis is directed at behavior management, educational assessment, and IEP/IFSP.

**SED 577. Dual Sensory and Communication. (3 Credits)**

A. Prerequisite: SED 260. Assessment, planning, and instruction for students with dual sensory impairments and severe cognitive disabilities. Augmentative and alternative communication methods, materials, and devices. Milieu language strategies, symbolic and nonsymbolic communication in natural environments and daily activities.

**SED 580. Audiology for Teachers of the Deaf and Hard of Hearing. (3 Credits)**

Physics of sound; anatomy, physiology, pathology and medical treatment of the auditory system; introduction to the audiometer and basic pure-tone and speech (auditory) testing; hearing aids and devices.

**SED 581. Speech for the Deaf and Hard of Hearing. (3 Credits)**

A. Prerequisites: SED 580 or instructor approval. Phonological development, acoustic articulation, rhythm, phrasing, accent, fluency, effects of impairment on speech, speech reading, auditory training.

**SED 704. Assistive/Adaptive Technology. (3 Credits)**

I, A. Classroom use and modification of and assistive/adaptive devices. Integration of assistive technology into assessments, IEPs, lesson plans, educational activities, and daily routines. Lab.

**SED 738. Language of Deaf & Hard of Hearing. (3 Credits)**

(3) A. Prerequisite: SED 722 or instructor approval. Receptive and expressive conversational language development and written language acquisition from a developmental perspective. Concepts in bilingual applied to the deaf. Methods to assess and facilitate language development.

**SED 774. Field Exp with Excep Learners. (3 Credits)**

A. Prerequisite: departmental approval. A practical experience with exceptional individuals. Emphasis is directed at behavior management, educational assessment, and IEP/IFSP.

**SED 777. Dual Sensory and Communication. (3 Credits)**

II, A. Prerequisites: SED 260 (or 522/722), 304, and 353/352 (teacher certification for SED 777), or instructor approval. Assessment, planning, and instruction for students with dual sensory impairments and severe cognitive disabilities. Augmentative and alternative communication methods, materials, and devices. Milieu language strategies, symbolic and nonsymbolic communication in natural environments and daily activities.

**SED 780. Audiology for Teachers of DHH. (3 Credits)**

Physics of sound; anatomy, physiology, pathology and medical treatment of the auditory system; introduction to the audiometer and basic pure-tone and speech (auditory) testing; hearing aids and devices.

**SED 781. Speech F/T Deaf & HH. (3 Credits)**

A. Prerequisite: SED 780 or instructor approval. Acoustic articulation, rhythm, phrasing, accent, fluency, effects of impairment on speech, speech reading, auditory training.

**SED 800. Exceptl Learners Gen Ed Class. (3 Credits)**

A. Open only to non LBD, MSD, and DHH majors. Characteristics of students with disabilities, identification procedures, and instructional strategies. Salient features of PL94-142, IEP, roles and responsibilities of general education educators.

**SED 801. Adv Early Childhood Assessment. (3 Credits)**

A. Identification and diagnostic procedures of development delay and at-risk conditions in infants, toddlers, and preschoolers. Continuous assessment of children's developmental, instructional, behavioral, and environmental needs; evaluation of effectiveness of services and family involvement.

**SED 802. Adv Early Childhood Intervn Prog. (3 Credits)**

A. Advanced curriculum and program development for infants, toddlers, and preschoolers in school centers or home settings, including collaboration with families and professionals, continuous assessment, and program evaluation.

**SED 804. Educl Mgt of LBD Students. (3 Credits)**

A. Prerequisite: certification in special education or department chair approval. Advanced management and programming for pupils with learning and behavior disorders. Selection, adaptation, development and evaluation of instructional approaches, methods and materials based on current research and best practice. Appropriate field experience required.

**SED 805. Roles of Special Educators. (3 Credits)**

A. Prerequisite: certification in special education or department chair approval. Focuses on roles of special educators in alternative settings, utilizing related services, and working with parents. Emphasis on interpersonal relationships and professional development.

**SED 807. Special Education. (1-3 Credits)**

A. Independent work, workshops, special topics, or seminars. May be retaken under different subtitles. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**SED 808. Spec Ed Early Childhood Survey. (3 Credits)**

I. Formerly SED 718. Overview of history, philosophy, legislation and services for young children (0-5) at-risk for or with disabilities, including impact and intervention across developmental domains. Focus on research-based practices for early childhood programs. Credit will not be awarded for both SED 808 and 718.

**SED 809. Diag Teaching Deaf & HH. (3 Credits)**

A. Prerequisites: certification in Special Education or department chair approval and SED 354, SED 804 or instructor approval. Differential diagnosis and educational programming in academic, sociological, and vocational areas with emphasis on case presentation and individual educational plans.

**SED 810. Sp Ed Statutes Regs & Case Law. (3 Credits)**

A. A study of the administrative responsibilities of special education leadership with emphasis on the understanding of the field of special education, related federal and state laws, administrative regulations, instructional arrangements, grant writing and budget.

**SED 811. IECE Assessment. (3 Credits)**

A. Assessing infants, toddlers, and preschoolers with developmental delays and risk factors. Emphasis on screening, eligibility determination, authentic and functional assessments, data collection and interpretation, and collaboration with families and professionals.

**SED 812. Intro Spec Edu Assesment. (3 Credits)**

Formerly SED 776. Principles of tests and measurements. Test administration, scoring, and interpretation applied to exceptional children. Credit will not be awarded for both SED 812 and 776.

**SED 813. Adv Spec Edu Assessment. (3 Credits)**

Formerly SED 803. Evaluation of educational, perceptual, conceptual, social, and psychological characteristics of exceptional individuals. Interpretation for educational and community interventions for exceptional students. Credit will not be awarded for both SED 813 and 803.

**SED 814. Spec Ed Consult & Supv Tech. (3 Credits)**

A. Consulting and supervisory services; recruitment, selection, and utilization of support services, evaluation of personnel in special education and programs; staff development; and mediation techniques.

**SED 815. Response to Intervention. (3 Credits)**

Provides framework for implementing RtI. Focus on components and role of school personnel in RtI Models in the context of legal mandates and ethical guidelines for data collection, interventions, assessments, progress monitoring, and eligibility.

**SED 816. Prac in Spec Educ Administrati. (6 Credits)**

A. Prerequisites: SED 810, 814, and EAD 801 or department chair approval. Supervised experiences in providing consultation services and performing all of the other functions of director of special education including procedures and policies, record keeping, utilization of support services, staff development, and due process.

**SED 817. Behavior Disorders. (3 Credits)**

Formerly SED 778. This course examines behavior disorders and emotional disturbances as educational, psychological, and sociological phenomenon. Definitions, characteristics, theoretical foundations, and programmatic approaches are discussed. Credit will not be awarded for both SED 817 and 778.

**SED 819. Mod/Sev Disabilities Intro. (3 Credits)**

No prerequisite. Introduction to teaching students with Moderate and Severe Disabilities (MSD). Educational needs, issues, legal mandates, family concerns, and best practices for student-focused inclusive school and community programs. Credit will not be awarded for both SED 819 and 700.

**SED 820. Multi-Tier Math/Reading Instr. (3 Credits)**

I. Introduction to foundations, universal core instruction, and progressively intensive math/reading instruction for P-12 students, including students with disabilities. Selection/use of Tier 1 and 2 interventions, features of assessment of math/reading difficulties, data collection and analysis.

**SED 821. MSD Tech/Research-Based Strat. (3 Credits)**

Implementing technology, assistive/adaptive devices, and research-based strategies to support learning of students with moderate and severe disabilities. Includes use of language strategies, symbolic and non-symbolic communication in natural environments and daily routines. Credit will not be awarded for both SED 821 and 730.

**SED 822. DataMgmtRspnsIntervention. (3 Credits)**

Prerequisites: SED 815 and 820. Focuses on research-based practices in tracking student progress. Addresses data collection and analysis in RtI and roles of school personnel to collect, analyze, and make decisions based on student data.

**SED 823. Mod/Sev Disab Methods. (3 Credits)**

Functional assessment and systematic instruction for student with MSD. Use of assessment data to develop IEPs and research-based instructional programs, including activity-based and community-based instruction. Methods and materials for implementing best practices across settings. Credit will not be awarded for both SED 823 and 735.

**SED 824. Early Special Education Topics. (3 Credits)**

Prerequisite: advisor/departmental approval. School related work, special workshops, special seminars. May be retaken up to 6 credit hours provided topics differ. Credit will not be awarded for both SED 824 and 707.

**SED 825. Lang Disorder Students Disabil. (3 Credits)**

Formerly SED 722. Prerequisite: SED 826 or dept. approval. Acquisition of normal language and speech in our multicultural society. Identification and educational management of language and speech disorders in children with disabilities. Credit will not be awarded for both SED 825 and 722.

**SED 826. Best Practices in Spec Edu. (3 Credits)**

Overview of special education including characteristics, definitions, legal mandates, programming requirements, and research based practices to support students with disabilities. Open to non-majors. Credit will not be awarded for both SED 826 and 775.

**SED 827. Early Ch Spec Ed Partnerships. (3 Credits)**

Review of needs of and methods for effective collaboration with families of children with disabilities, focusing on family-school interactions, impact of family variability on collaboration. Credit will not be awarded for both SED 827 and 711.

**SED 830. Survey of Ed of Deaf and HoH. (3 Credits)**

A. Discussion of historical, philosophical, educational, psychological, and social aspects of deaf education. An orientation to problems, issues, and research in the field.

**SED 832. Written Lang of Deaf & HH. (3 Credits)**

A. Prerequisite: certification in special education or department chair approval. Methods of developing written language from preschool through secondary levels; including traditional and current methods of teaching written English. Evaluation of written language competence of deaf and hard of hearing students.

**SED 837. Applied Behavior Analysis. (3 Credits)**

Formerly SED 790. Prerequisite: SED 826 or departmental approval. A study of classroom and behavior management, including applied behavior analysis as applied to classroom and instructional management. Development of skills in data collection, intervention procedures, graphing data, and evaluation of behavior change are the focus. Credit will not be awarded for both SED 837 and 790.

**SED 845. Spec Ed Transition/Collab. (3 Credits)**

Research-based practices in scheduling and management of Specially Designed Instruction; transdisciplinary services, and transition activities; collaboration with parents, paraprofessionals, and professionals; professional development skills, and records management to support the learning of students with disabilities. Credit will not be awarded for both SED 845 and 745.

**SED 850. Assess/Prog/Methods, D/HH. (3 Credits)**

II. Formerly SED 710. Open to DHH and Communication Disorders graduate students only. Standardized and informal assessments used to measure reading and content knowledge of students who are deaf and hard of hearing. Exploration of professional literature and specialized curricula, programmatic decisions, and high leverage practices for students who are DHH. Credit will not be awarded to students who have credit for SED 710.

**SED 851. Teaching Secondary LBD. (3 Credits)**

A. Focus on education of students with LBD in secondary settings, including academic instruction and learning strategies, social competence, schoolwide management, career education and transition, adolescent sexuality, drug and alcohol use, and juvenile delinquency.

**SED 856. Graduate Methods and Materials. (3 Credits)**

A. Prerequisites or Corequisites: SED 790 and 776 with a grade of C or higher. Curriculum for exceptional individuals; instructional principles and methodology; development, implementation, and evaluation of educational materials. Course will address teaching strategies using the Program of Studies to make appropriate adaptations and accommodations for diverse learners.

**SED 886. Seminar in Special Education. (3 Credits)**

A. Prerequisite: SED 805 or instructor approval. Critical study of research literature on education of exceptional individuals. Directed study based on student's area of emphasis.

**SED 890. Adv Behav Strateg & Interv. (3 Credits)**

A. Prerequisites: SED 341, SED 590/790, or instructor approval. Study of techniques of applied behavior analysis, functional behavioral assessment, alternative procedures, interventions for severe problem behaviors, and maintaining a safe learning environment for all students.

**SED 897. Practicum in Special Education. (3-6 Credits)**

A. Practicum for graduate students who seek certification in an area in special education.

**SED 898. Capstone Research Project. (1-3 Credits)**

(1-3). A. Prerequisites: EDL 810, EDL 811 and minimum of 24 hours in Ed. S. program. Completion of research project using action or traditional research design with topic related to area of specialization in Special Education.

## SJS Social Justice Studies (SJS)

**SJS 101. Understanding Social Justice and Human Struggle. (3 Credits)**

(3) A. Course explores the concepts of justice, conflict and social change and examines the way in which political, economic, media, education, and other institutions create challenges for justice. It also examines efforts to resist existing structural and institutional arrangements and encourage social change to better meet human needs.

**SJS 250S. Service Learning in Social Justice Studies. (3 Credits)**

A. Prerequisite: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Students will engage in classroom and service activities to explore, critique, and apply the fundamental concepts of justice, conflict, and social change. Through experiential learning and reflective writing, students will begin integrating ideas and perspectives, formulating personal ideologies, and developing an enhanced sense of civic responsibility.

**SJS 301. Theories of Social Justice. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines social theories of justice, conflict and social change. This includes engagement with Marxist, Postcolonial, Postmodern, Poststructuralist, Critical Race, Feminist, and Queer theories. As the SJS major is dedicated to foundations in and accountability to grassroots knowledge and power, this course will consistently locate theory in concrete examples. Credit will not be awarded for both SJS 301 and SJS 301W.

**SJS 313. Mobilizing for Social Justice. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines the broad concept of social change through explorations of different social movements, individual actors, and various policies. The course considers strategies for change including activism, advocacy, assistance, and community organizing and looks at change on a continuum of levels, from grassroots campaigns to international diplomacy and policy work.

**SJS 322. Social Justice and Media. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines the cultural, economic, and political dynamics of struggles for social justice through a mediated lens. Although the media provides useful information helping us understand conflict within society, it also creates the context that influences audience perceptions of people/ events. This social construction influences how we perceive equality, justice, and fairness.

**SJS 325. Social Justice and Film. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines issues of justice, conflict, and social change through the lens of documentary and popular films and videos. Students are required to view, analyze, discuss, and critique themes and lessons garnered through their viewing experiences and assess how their experiences contribute to their understanding of justice, conflict, and social change.

**SJS 396. Researching and Writing for Change. (3 Credits)**

A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines the mutual importance and intertwined nature of social research and writing in struggles for social change and justice. The course will consider the importance of quantitative and qualitative research and diverse writing formats such as academic scholarship, journalism, polemics, cultural critique, advocacy, and grant writing in addressing injustice and conflict.

**SJS 400. Feminist Theory and Practice. (3 Credits)**

Cross-listed with WGS 400. Prerequisite: WGS 201 or SJS 101 or departmental approval. Examines intersectional development of feminist theory and its implications for continuing feminist scholarship. Includes related research project in student's major. Usually offered in the fall semester. Credit will not be awarded for both SJS 400 and WGS 400.

**SJS 401. Conflict, Resistance, and Nonviolent Struggle. (3 Credits)**

A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Course examines various responses to conflict and focuses on the use of nonviolent strategies as a means to overcome oppression. Examples of nonviolent struggle around the world are assessed and students are required to complete a field experience where they consider the application of effective nonviolent strategies.

**SJS 423. Topical Seminar.\_\_\_\_. (3 Credits)**

Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Intensive study of selected topics related to social justice. May be retaken with different topics.

**SJS 450S. Learning Through Civic Engagement. (3 Credits)**

A. Prerequisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Working collaboratively with faculty, peers, and/or community representatives, students will analyze a social problem. They will enhance competencies essential to the helping, advocacy, community organization and activist roles necessary for social change. Students will prepare written and oral presentations that reflect their understanding of justice, conflict, and social change.

**SJS 467. States of Violence. (3 Credits)**

A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines the relations among state regimes and their application of violence in historical and contemporary contexts. Consideration will be given to the ways state institutions such as the military, police, prisons, and welfare often exercise violence and threats thereof in struggles over social justice. Alternatives to state violence will be discussed.

**SJS 470. Critical Carceral Studies. (3 Credits)**

A. Pre-Requisites: SJS 101 or CRJ 101 or PLS 103 or COR 211 or departmental approval. Examines the historical, theoretical, and political development of "carcerality", including technologies of punishment, coercion, surveillance, and control. This class examines the rise of prison industrial complex in the United States and its effects on oppressed communities.

**SJS 480. Ethnography for Social Change. (3 Credits)**

A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. An advanced methods class, this course examines the use of ethnography to achieve greater understandings of, and contributions toward, social change. Readings may include studies of power and resistance in Appalachia, the homeless in San Francisco, the use of state violence in the repression of dissent, and other important works.

**SJS 490. Identity, Culture, and Power. (3 Credits)**

(3) A. Pre-requisites: SJS 101 or CRJ 101 or PLS 103 or COR 201 or departmental approval. Examines culture as a contested site of power relations. Looking at media, economics, education, law and other areas of cultural (re)production, this class explores the diverse and even clandestine ways that power operates and that subordinate populations resist.

## SOC Sociology (SOC)

**SOC 131. Introductory Sociology. (3 Credits)**

I, II. Basic principles in sociology, including socialization, groups and interaction, culture, social structure and institutions (family, education, religion, politics, economics), crime/deviance, social inequalities (race, class, gender), and sociological research methods and theories. Gen. Ed. E-5B [SB].

**SOC 135. Living in a Diverse World. (3 Credits)**

A. An introduction to the sociological study of the multiple ways racial and ethnic diversity intersect across classes, genders, cultures, abilities, religions, labor markets, political structures, and the mass media.

**SOC 205. Sexualities and Social Issues. (3 Credits)**

(3). Cross-listed as WGS 205. An examination of the diversity of sexuality and related social issues in the United States and globally. Topics include culture, history, law, mass media, politics, and religion. Credit will not be awarded to students who have credit for WGS 205 or WGS 302. Gen. Ed. E-6 [GE].

**SOC 232. Social Statistics. (3 Credits)**

I, II. Prerequisites: SOC 131 or 235 and ACT Math score of 19 or higher or SAT Math score of 500 or higher, or equivalent MAT placement test score, or MAT 105 or higher with a grade of C or better.. Statistical analysis of survey data, including forming sociological research questions, variable selection, analysis, interpretation, and writing in standard scientific form.

**SOC 235. Social Problems. (3 Credits)**

I, II. Analysis of selected social problems such as crime, mental illness, divorce, population, and poverty, as well as controversies over human sexuality. The analysis includes the definition, causes, and consequences of social problems. Gen. Ed. VB, VC, or VII (SBS).

**SOC 245. Sociology of the Family. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 102R or ENG 105(B) or HON 102. Completion of SOC 131 or SOC 235 is advised before taking SOC 245. Examines family as a social institution, including its relation to cultural and social change and to the wider structure of society. Credit will not be awarded for both SOC 245 and SOC 345 or SOC 245W.

**SOC 245W. Sociology of the Family. (3 Credits)**

Prerequisite: ENG 102 or ENG 102R or ENG 105(B) or HON 102. Completion of SOC 131 or SOC 235 is advised before taking SOC 245W. Examines family as a social institution, including its relation to cultural and social change and to the wider structure of society. Credit will not be awarded for both SOC 245W and SOC 345.

**SOC 300. Animals and Society. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), HON 102. Completion of SOC 131 or SOC 235 is advised. A survey of sociology of animal-human interaction, focusing on the human-animal bond and conflict between human and animal worlds.

**SOC 310. Population and Society. (3 Credits)**

A. Formerly SOC 465. Prerequisites: SOC 131 or SOC 235;. Topics include demographic data and analysis, population characteristics, migration, mortality, fertility, population theories, world population growth, and population policies. Credit not awarded for both SOC 310 and SOC 465.

**SOC 320. Mind, Self, and Society. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), HON 102. Completion of SOC 131 or SOC 235 is advised before taking SOC 320. Relation of the individual to the sociocultural environment, with special reference to personality development, interpersonal role-behavior, motivation, and social attitudes.

**SOC 322. Sociology of Mass Media. (3 Credits)**

A. Prerequisites: ENG 102 or 102R, 105(B), or HON 102; SOC 131, or SOC 235, or BEM 200. Mass media as social structure and audience in interpretation of mass media is examined through sociological analysis of media ownership, media content, and audience characteristics.

**SOC 330. Sociology of Migration. (3 Credits)**

Prerequisites: ENG 102 or 102R, 105(B), or HON 102; three hours in SOC or departmental approval. A sociological exploration of global migration including the study of migrants, refugees, politics, laws, and the role of the global economy. Credit will not be awarded for both SOC 330S and SOC 330.

**SOC 330S. Sociology of Migration. (3 Credits)**

A. Prerequisites: ENG 102, 105(B), or HON 102; 3 hours in SOC or departmental approval. A sociological exploration of global migration including study of migrants, refugees, politics, laws, and the role of the global economy, informed through service-learning.

**SOC 349. Applied Learning in Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and departmental approval. Work in a professional environment related to academic studies. A minimum of 80 hours of employment is required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349A. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349B. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349C. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349D. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349E. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349F. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349G. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349H. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349I. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349J. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349K. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349L. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349M. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 349N. Cooperative Study: Sociology. (0.5-8 Credits)**

Prerequisites: Sophomore Standing, Overall GPA: 2.0, and Sociology Program Approval. Work in a professional environment related to academic studies. A maximum of three hours may be applied to major electives. A minimum of 80 hours of employment required for each semester hour of academic credit. Graded as Satisfactory/Unsatisfactory.

**SOC 350. Selected Topics in Sociology. (3 Credits)**

A. Prerequisite: ENG 102, 105 (B), or HON 102. Completion of SOC 131 is advised before taking SOC 350. May be retaken to a maximum of nine hours provided the subject matter differs each time. Sample topics: Appalachian sociology; sexism and society; utopias.

**SOC 363. Appalachian Images in Film and Song. (3 Credits)**

A. Completion of SOC 131 or SOC 235 is advised before taking SOC 363. Media images of the Appalachian region and its people through film and music; the processes by which such images become produced and reproduced. Credit will not be awarded to students who have credit for APP 363.

**SOC 365. Social Change in Appalachia. (3 Credits)**

A. Cross listed as APP 366. Completion of SOC 131 or SOC 235 is advised before taking SOC 365. Analysis of patterns of social change and development in an important area of the Southern United States, Central and Southern Appalachia. Emphasis will be placed upon competing theoretical perspectives and the importance of historical research. Credit will not be awarded to students who have credit for APP 366.

**SOC 370. Religion in Appalachia. (3 Credits)**

A. Completion of SOC 131 or SOC 235 is advised before taking SOC 370. An examination of diversity and change in the religious beliefs, practices, groups, and organizations found in the Southern Appalachian Region. Credit will not be awarded to students who have credit for APP 370.

**SOC 375. Sociology of Deviance. (3 Credits)**

Prerequisites: SOC 131 and ENG 102 or 102R, 105(B), or HON 102. An overview of social, cultural, interpersonal, and individual factors in the social construction of norms and laws and their violation. Explores types of deviance such as predatory violence, organizational deviance, suicide, and drug use.

**SOC 380. Jobs and Professionalization. (3 Credits)**

A. (3) Prerequisites: At least 9 hours in SOC. A professionalization course for sociology majors focused on transitioning to the workforce or further education. Students will learn goal setting and execution, research skills and develop critical thinking, problem solving, teamwork, and communication skills.

**SOC 383. Environment and Society. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), or HON 102. Completion of SOC 131 or SOC 235 is advised. The study and application of concepts from ecology, political economy and sociology to better understand the relationship between humans and their physical environment.

**SOC 395. Research Methods in Sociology. (3 Credits)**

II. Prerequisite: SOC 232. Methods and techniques of sociological research, including collecting, measuring, analyzing, processing, and presenting social data.

**SOC 399. Gender and Society. (3 Credits)**

A. Cross-listed as WGS 399. Prerequisites: SOC 131 or SOC 235; ENG 102 or ENG 105 (B) or HON 102. Emphasis on the relationship between the social construction of gender and the experiences of people of all genders in societies. Consideration of the cultural and historical construction of gender and identity. Gen. Ed. E-6 [GE]. Credit will not be awarded for both SOC 399 and WGS 399.

**SOC 400. Race and Ethnicity. (3 Credits)**

A. Cross-listed as AFA 400. Prerequisites: SOC 131 or SOC235; ENG 102 or ENG 102R or ENG 105 (B) or HON 102. Analysis of the development of racial and ethnic relations from the perspective of sociology and related social sciences. Examination of issues related to dominant and minority group status in the United States and cross-culturally. Gen. Ed. E-6. Credit will not be awarded for both SOC 400 and AFA 400.

**SOC 420. Jobs, Organizations, and Power. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), HON 102 or departmental approval. Completion of SOC 131 or SOC 235 is advised. Analysis of work in American society with a focus on labor markets, labor processes and organizational structure. Special attention to the future of jobs and bureaucracies in the United States.

**SOC 425. Social Inequality. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), HON 102 or departmental approval. Completion of SOC 131 or SOC 235 is advised. Examines causes and consequences of social stratification, focusing on the origins, present, and future of the world economy, including policy institutions, major historical events, and racial/ethnic relations in the global system.

**SOC 450. Social Change. (3 Credits)**

A. Prerequisite: six hours of SOC. Analysis of theories of social and cultural change in terms of process and direction and methodological issues.

**SOC 455. Collective Behavior. (3 Credits)**

A. Prerequisite: ENG 102, 105(B), or HON 102; six hours in SOC. Analysis of mass phenomena such as public opinion, rumors, fads, mobs, riots, panics, and social movements; including a consideration of the development and termination of collective behavior forms.

**SOC 462. Sociological Theory. (3 Credits)**

I. Prerequisite: ENG 102, 105(B), or HON 102; six hours in SOC. Examines developments in social thought including origins of classical theory (Marx, Durkheim, Weber), a survey of contemporary theories built upon these early approaches, as well as issues unaddressed in the classical school, such as functionalism, feminism, dramaturgical analysis, and post-structuralism.

**SOC 470. Capstone Seminar in Sociology. (3 Credits)**

A. Prerequisites: ENG 102, 105 (B), or HON 102; SOC 395. A capstone overview of sociology through a general survey of various subdisciplines of the field with an emphasis on student understanding of research, theory, and professionalization.

**SOC 490. Independent Study in Sociology. (1-6 Credits)**

(1-6) A. Prerequisite: SOC 131 and six additional hours of SOC. Student must have the independent study proposal form approved by faculty supervisor and departmental chair prior to enrollment. Additional independent study courses may be retaken to a maximum of six hours.

**SOC 499. Directed Research in Sociology. (3 Credits)**

A. Prerequisite: Departmental approval. A directed research experience for Sociology majors that integrates a research experience with the students' professional development and the production of a substantive deliverable product (e.g., poster or conference presentation).

## SPA Spanish (SPA)

**SPA 101. Conversational Spanish I. (3 Credits)**

I, II. Prerequisite: completion of all required developmental reading and writing courses. Beginning Spanish for students with little or no previous study of Spanish. Qualified students should enroll at a higher level. Proficiency-based course emphasizing active communication in Spanish, and introducing the cultural diversity of the Spanish-speaking world. Conducted in Spanish. Not open to students who have native or near-native fluency in Spanish. Gen. Ed. E-6.

**SPA 101P. Spanish Practicum I. (1 Credit)**

I, II. Students who enroll in this course must be concurrently enrolled in SPA 101. This course provides students with an additional opportunity to study and apply the vocabulary, grammar, and usage presented in SPA 101.

**SPA 102. Conversational Spanish II. (3 Credits)**

I, II. Prerequisite: SPA 101, or equivalent proficiency. (Students with three or four successful years of high school Spanish should begin their study in SPA 102, 105, or higher. Students entering SPA 102 by referral or placement will receive three hours credit for SPA 101 if they make an A in 102.) Continuation of SPA 101. Conducted in Spanish. Not open to students who have native or near-native fluency in Spanish.

**SPA 102P. Spanish Practicum II. (1 Credit)**

I, II. Students who enroll in this course must be concurrently enrolled in SPA 102. This course provides students with an additional opportunity to study and apply the vocabulary, grammar, and usage presented in SPA 102.

**SPA 105. Accelerated Spanish I. (6 Credits)**

(6) A. Recommended: minimum of two years high school Spanish and/or instructor approval. An intensive approach to the skills of reading, writing, speaking, listening, and understanding culture. SPA 105 covers the same material as SPA 101 and 102, but is completed in a single semester. Conducted in Spanish. Not open to students who have native or near-native fluency in Spanish. Gen. Ed. E-6.

**SPA 201. Intermediate Conversational. (3 Credits)**

I, II. Recommended: SPA 102 or equivalent proficiency. Development of more advanced skills for speaking, listening, reading, and writing in contemporary cultural contexts. Laboratory work required. Students entering SPA 201 by referral or placement receive six hours credit for SPA 101 and 102 if they make an  $\geq A_{\zeta}$  or  $\geq B_{\zeta}$  in 201. Gen. Ed. VIII.

**SPA 202. Intermediate Conversational Spanish II. (3 Credits)**

I, II. Recommended: SPA 201 or equivalent proficiency. Development of more advanced skills for speaking, listening, reading, and writing, with increased emphasis on short readings, discussions, and compositions on cultural topics. Laboratory work required. Students entering SPA 202 by referral or placement receive nine hours credit for SPA 101, 102, and 201 if they make an ¿A¿ or ¿B¿ in 202. Gen. Ed. VIII.

**SPA 205. Accelerated Spanish II. (6 Credits)**

Prerequisite: SPA 105, or SPA 102 or equivalent with minimum grade of B, or two years AP high school Spanish, and/or instructor approval. An intensive approach to the skills of reading, writing, speaking, listening, and understanding culture. SPA 205 covers the same material as SPA 201 and 202, but is completed in a single semester. Gen. Ed. E-6.

**SPA 295. Independent Work in Spanish. (1-3 Credits)**

A. Prerequisite: SPA 202 or equivalent proficiency. May be retaken to a maximum of 9 hours if content is different. Prior to enrollment, student must have the independent study proposal approved by faculty supervisor and department chair.

**SPA 300. Advanced Conversation. (3 Credits)**

A. Formerly SPA 206. Prerequisite: SPA 202 or 205 or instructor approval. Active development of skills and strategies for functional fluency in Spanish in real cultural contexts. Credit will not be awarded for both SPA 206 and SPA 300.

**SPA 301. Reading and Culture. (3 Credits)**

A. Prerequisites: SPA 202 and SPA 300 or equivalent proficiency with department chair approval. Interactive discussion and writing on readings representative of Hispanic culture. Taught in Spanish.

**SPA 310. Topics in Spanish:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: SPA 300 and SPA 301. May be retaken to a maximum of 9 hours if topic is different. Selected topics in Spanish language, literature, or culture.

**SPA 320. Spanish for the Professions. (3 Credits)**

A. Prerequisites: SPA 300 and 360, or equivalent proficiency with department chair approval. Provides opportunities to learn and use Spanish for professions. Includes vocabulary for the social sciences, industrial technology, law enforcement, and health care as deemed relevant. Taught primarily in Spanish.

**SPA 321S. Spanish for the Social Services. (3 Credits)**

A. Prerequisite: SPA 300 and SPA 301 or Departmental Approval. Designed to develop the knowledge and skills required for communication by collaborating with professionals in an approved service learning site. Materials and activities are geared toward professional interactions and will emphasize cultural knowledge.

**SPA 349. Applied Learning in Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349A. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349B. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349C. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349D. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 349E. Cooperative Study: Spanish. (0.5-6 Credits)**

A. Prerequisite: students must have successfully completed 15 hours of Spanish major courses or equivalent proficiency. In addition, transfer students must have completed one semester of full-time course work at EKU. A minimum of 80 hours of employment is required for each semester hour of academic credit. Site, plan and hours must be approved by Spanish coordinator. Work under coordinator and field supervisors in placements related to academic studies. Maximum of 6 (six) hours toward a degree.

**SPA 360. Grammar in Contexts. (3 Credits)**

I, II. Prerequisites: SPA 300. Emphasis on improving the understanding and application of Spanish through study of components of Spanish grammar in a variety of written cultural contexts.

**SPA 380. Civilizations of Spain. (3 Credits)**

I. Prerequisites: SPA 301 and 360, or equivalent proficiency with department chair approval. An exploration of Spain¿s intellectual, cultural, and historical development. Class conducted primarily in Spanish with Spanish texts in order to further development of reading, speaking, comprehension, and writing skills in Spanish.

**SPA 381. Civilizations of Latin America. (3 Credits)**

II. Prerequisites: SPA 301 and 360, or equivalent proficiency with department chair approval. An exploration of Latin America's intellectual, cultural, and historical development. Class conducted primarily in Spanish with Spanish texts in order to further development of reading, speaking, comprehension, and writing skills in Spanish.

**SPA 390. Adv Composition & Conversation. (3 Credits)**

A. Formerly SPA 370. Prerequisites: SPA 300 or 301 or equivalent proficiency with departmental approval. Intensive practice in developing skills for effective oral and written communication in Spanish. Taught in Spanish.

**SPA 401. Spanish Language Studies:\_\_\_\_. (3 Credits)**

A. Prerequisite: SPA 360. A selected topic such as phonetics, phonology, semantics, syntax, or history of the language. May be retaken to a maximum of nine hours if content is different.

**SPA 405. Hispanic Literature Culture. (3 Credits)**

A. Prerequisite: SPA 301 or equivalent proficiency with department chair approval. Readings and interactive analyses of representative authors, works, and movements of both Spain and Spanish-America in their historical and cultural contexts from the Middle Ages to 1700. Taught in Spanish.

**SPA 406. Hispanic Literature Culture. (3 Credits)**

A. Prerequisite: SPA 301 or equivalent proficiency with department chair approval. Readings and interactive analyses of representative authors, works, and movements of both Spain and Spanish-America in their historical and cultural contexts in the 18th and 19th centuries. Taught in Spanish.

**SPA 407. Hispanic Literature and Culture. (3 Credits)**

A. Prerequisite: SPA 301 or equivalent proficiency with department chair approval. Readings and interactive analyses of representative authors, works, and movements of both Spain and Spanish-America, in their historical and cultural contexts, in the 20th century. Taught in Spanish.

**SPA 410. Introduction to Interpreting. (3 Credits)**

Prerequisite: SPA 360. This is a practical course designed to develop proficiency in community interpreting. Topics include consecutive interpreting skills, sign translation skills, vocabulary and terminology research, intercultural issues, and situational ethics.

**SPA 492. Senior Capstone Seminar. (3 Credits)**

(3). A. Prerequisites: At least 15 hours of 300-400 level Spanish and/or chair approval. Advanced majors will demonstrate their skills in the language, cultures, and literatures of the Spanish speaking world, via a research project, demonstrating proficiency in oral and written Spanish, and a final presentation to peers and faculty. Taught in Spanish. Required of all Spanish majors.

**SPA 495. Independent Work in Spanish. (1-3 Credits)**

A. Prerequisite: departmental approval. May be counted toward major or minor only with permission of department chair. May be retaken to a maximum of six hours if content is different. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

**SPA 572. Hispanic Literature:\_\_\_\_\_. (3 Credits)**

A. Prerequisites: SPA 301 and three hours from SPA 405, 406, or 407. Study of a selected literary topic. May be retaken to a maximum of nine hours if content is different.

**SPA 772. Hispanic Literature:\_\_\_\_\_. (3 Credits)**

Study of a selected literary topic. May be retaken for a maximum of 9 hours if course content is different.

**SPA 880. Specials Studies/SPA Ind Study. (1-3 Credits)**

A. Independent language or literature on a subject of special need or interest to the advanced student. May be retaken to a maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## SSE Safety, Security & Emg Mgt (SSE)

**SSE 801. MS SSEM Academic Orientation. (0 Credits)**

Academic orientation for the SSEM Graduate Program. This course will address the college experience at the graduate level and assist the student in building skills and competencies for academic success in the program.

**SSE 815. SSE Administration. (3 Credits)**

A. Prerequisite: departmental approval. Examination of administrative concepts and principles regarding organizing and managing the functional areas of fire, safety, and security. Development of organizational and administrative structure to include policy formulation, goals and objectives, managerial tasks, and impact evaluations within an encompassing safety, security, and emergency framework.

**SSE 822. Workers Compensation/Labor Law. (3 Credits)**

A. Prerequisite: departmental approval. Comprehensive study of workers compensation and regulations; National Labor Relations Act; Title VII; A.D.E.A.; and other relevant laws applicable to the functional areas of safety, security, and emergency services.

**SSE 826. Emergency Prep/Response. (3 Credits)**

A. Prerequisite: departmental approval. In-depth study of the planning process, program development, training methods, etc., for response to man-made and natural emergencies/disasters for both private and public entities.

**SSE 827. Issues in Security Management. (3 Credits)**

A. Prerequisite: departmental approval. Survey of salient issues and concerns confronting security managers. Examines the application and contribution of various management concepts and philosophies to assets protection issues such as information security, personnel protection, threat analysis, technological adaptation, and resource allocation.

**SSE 828. Industrial Safety Management. (3 Credits)**

A. Prerequisite: departmental approval. Investigation and analysis of hazard control principles relating to the management of personnel, facilities, and equipment, including control procedures, work-task analysis, risk identification and countermeasures, safety training, and pertinent safety management techniques.

**SSE 830. Organizational Continuity. (3 Credits)**

Organizational continuity will be discussed using the phases of emergency response, crisis management, and recovery. This course addresses value added activity of planning for catastrophic events and critical factors in restoring operational activity.

**SSE 831. Evltn of Emrgncy Management. (3 Credits)**

Current practice of emergency management evolved through governmental reactions to disasters that helped shape current emergency management practices, policy, administrative changes and historical context for the changes.

**SSE 832. Construction Safety. (3 Credits)**

A. Prerequisite: departmental approval. Introduction/ analysis of general construction safety utilizing the key components of 29 CFR 196. Included in this study will be general safety & health provisions of OSH Act and a review of the various subparts of 29 CFR 1926.

**SSE 833. Legislation & Regulatory Comp. (3 Credits)**

A. Prerequisite: departmental approval. Comprehensive study and analysis of federal/state regulations and legislation such as OSHA, EPA, etc., which mandate compliance with certain safety, health, and environmental conditions and practices relating to work performed in occupational, industrial, and comparable settings.

**SSE 834. Corporate Compliance. (3 Credits)**

A. Prerequisite: departmental approval. The assessment, analysis and development of safety, emergency management, security and environmental compliance programs. This course will address the regulatory requirements and best business practices for each of the compliance areas.

**SSE 835. Advanced Construction Safety. (3 Credits)**

A. Prerequisite/co-requisite: SSE 832. A more detailed examination of 29 CFR 1926 including: PPE; Electrical; Scaffolding; Fall Protection; Cranes; Excavation; Steel Erection; Confined Spaces; and Residential Construction.

**SSE 839. Appl Lrn: Safe.Sec.Emer.Mngmt. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839A. Cooperative Study. (0.5-6 Credits)**

A. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839B. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839C. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839D. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839E. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839F. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839G. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839H. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839I. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839J. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839K. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 839L. Cooperative Study. (0.5-6 Credits)**

A. Formerly LPS 839 A-F. Prerequisite: departmental approval. Work under faculty and field supervisor in a cooperative placement related to student's academic studies. May be retaken to a maximum of six hours, but only three hours may count toward master's degree. A minimum of 80 hours required for each hour of academic credit.

**SSE 840. Tech Construction Safety Mgmt. (3 Credits)**

A. Prerequisite/co-requisite: SSE 832 and 835. Students will be presented with case studies and will be expected to prepare investigation reports, countermeasure plans, and strategic plans in order to counter and prevent future occurrences.

**SSE 841. Appl Study: Safe.Sec.Emer.Mgmt. (3 Credits)**

A. Prerequisite: departmental approval. Supervised study in loss prevention setting to provide the student an opportunity to synthesize theory and on-the-job situations. Individual conferences.

**SSE 842. Safety Ethics. (3 Credits)**

A. Addressed are fundamental concepts of ethics and ethical practice for safety professionals. Issues/topics include the central role of ethics, reaching agreement, cheating/free riding, and dilemmas faced by the safety professional.

**SSE 843. HR & Change Mgmt for Sfty Pros. (3 Credits)**

A. An analysis of human resource laws and employment issues impacting the safety function including ADA, Title VII and Pregnancy Discrimination Act. Assessment of new/pending legislation and regulations impacting the safety and employment functions.

**SSE 845. Personal/Environmental Hazards. (3 Credits)**

A. Prerequisite: departmental approval. Analysis and investigation of hazard and threat control principles relating to personal and environmental risks within the workplace. Investigation techniques, inspection methodologies, management techniques, and prevention programs essential to the manager within the safety, fire, and security functions are emphasized.

**SSE 850. Ergonomics & Human Factors. (3 Credits)**

A. The assessment and analysis of ergonomic risk factors, identification of known musculoskeletal disorders, and development of effective ergonomic management techniques and compliance programs.

**SSE 856. Global Supply Chain Operations. (3 Credits)**

A. Supply chains are increasing in size, scope, and complexity. This course considers the fundamentals of Global Supply Chain Management through the lenses of safety and security.

**SSE 857. Global Supply Chain Risk & Res. (3 Credits)**

A. Understanding and evaluating risk and resiliency are essential to ensuring a secure, dependable global supply chain. This course explores risk assessment strategies, modeling, and mitigation approaches used in reducing global supply chain vulnerability.

**SSE 860. Injury Management. (3 Credits)**

(3) Injury Management will review practical activities employers should engage to effectively manage injury/illness claims. Transitional return to work and OSHA recordkeeping associated with managing work related injuries.

**SSE 865. SSE Auditing. (3 Credits)**

A. Prerequisite: departmental approval. Theory and application of auditing in safety, fire, and security. Comprehensive study of risk/threat exposure and assessment.

**SSE 866. Spcl Topics Healthcare Safety. (3 Credits)**

A. This course, utilizing case studies and readings, will focus on current events, risks and threats to the healthcare delivery system, special safety issues, and emergency management related to the safety of healthcare facilities.

**SSE 867. Safety/Security Across Health. (3 Credits)**

A. This course introduces the healthcare continuum, focusing on the hospital/medical center environment. Ancillary and specialty services, including the 17 healthcare service types addressed in the CMS Final Rule for Emergency Preparedness, will be addressed.

**SSE 870. Principles of School Safety. (3 Credits)**

A. Examines a range of school and community crime prevention and safety strategies and assesses their effectiveness. In addition, students will be required to develop a school and community prevention and safety plan.

**SSE 880. SSE Research/Planning. (3 Credits)**

A. Prerequisites: APS 465 or equivalent statistics course and departmental approval. Models and applications of research design and planning in safety, security, emergency services and assets protection. Identification and evaluation of problems, information and data interpretation, and research/planning methodologies for contemporary approaches to proactive safety, security, and emergency services.

**SSE 885. Quantitative Analysis in SSEM. (3 Credits)**

(3) A. Addresses issues related to SSEM management by developing a systematic approach for evaluating evidence. Reviews study design, measure of associations, confounding, interaction, sources of bias and error, and quantitative analysis and its role in SSEM.

**SSE 890. Topical Seminar. (3 Credits)**

A. Prerequisite: advisor/departmental approval. Designed to explore specific, contemporary aspects of safety, security, and emergency services. May be retaken to a maximum of six hours provided topic is different each time.

**SSE 896. SSEM Capstone. (3 Credits)**

I, II and A. Prerequisite: Completion of 30 hours in MSSSEM or department approval. Final research project and presentation; Students will collect, analyze, interpret and assemble data and conclusions related to issues in SSEM.

**SSE 897. Independent Study. (3 Credits)**

A. Prerequisite: departmental approval. Designed for graduate students who have demonstrated the ability to conduct individual research relating to loss prevention and safety. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

## STA Statistics (STA)

**STA 215. Introduction to Statistical Reasoning. (3 Credits)**

I, II. Prerequisite: Satisfaction of English and reading academic readiness indicators and either satisfaction of mathematics academic readiness indicators\* or concurrent enrollment in STA 215P. Introduction to descriptive statistics, normal distributions, correlation and linear regression, sampling, experiments, chance phenomena, one- and two-sample estimation and hypothesis testing, chi-square tests, and use of statistical software. Gen. Ed. E-2 [QR].

**STA 215L. StatLab for STA 215. (1 Credit)**

A. Corequisite: STA 215. This optional lab is to accompany a regular lecture class in STA 215; topics will vary. 2 Lab.

**STA 215P. Quantitative Support for STA 215. (1 Credit)**

(1) I, II. Corequisite: STA 215. Corequisite support for students concurrently enrolled in STA 215. Emphasis on prerequisite skills needed for statistics, such as real number sense and operations, equations, analyzing graphs, modeling, critical thinking, and use of statistical software. 2 Lab.

**STA 230. Probability and Statistics for Middle Grades Teachers. (3 Credits)**

Prerequisite: MAT 112, 114, 211, or 234 with a minimum grade of "C". Pre- or Co-requisite: MAE 201. Sampling graphs, percentiles, measures of center and variability, mean absolute deviation, correlation, lines of best fit, probability, geometric probability, independence, simulations, contingency tables, counting, binomial uniform, and normal probability distributions, one-sample inference, manipulatives, presentations, technology.

**STA 270. Applied Statistics. (4 Credits)**

I, II. Prerequisite: MAT 112 or 112B higher with a minimum grade of "C", or a Math SAT score of 23 or higher, or a Math SAT math score of 560 or higher. Descriptive statistics, probability, counting techniques, discrete and continuous distributions, binomial distributions, normal distributions, sampling distributions, one- and two-sample estimation and hypothesis testing, chi-square tests, correlation, linear regression, analysis of variance, and use of statistical software. Gen. Ed. E-2 [QR].

**STA 270L. StatLab for STA 270:\_\_\_ (1 Credit)**

A. Prerequisite/Corequisite: STA 270. This optional lab is to accompany a regular lecture class in STA 270: topics will vary. 2 Lab.

**STA 340. Applied Regression Analysis. (3 Credits)**

I, II. Prerequisite: STA 270 with a minimum grade of "C"; or STA 215 with a minimum grade of "B" and one of the following: MAT 112 or 112B or higher with a Grade of "C" a Math ACT score of 23 or higher, or a Math SAT score of 560 or higher; or departmental approval. Simple and multiple regression, model building, variable screening methods, detection and management of multicollinearity, residual analysis, logistic regression, classical time series analysis, and use of statistical software. Credit will not be awarded to students who have credit for STA 320.

**STA 349. Applied Learning in Statistics. (0.5-8 Credits)**

I, II; (1-6) SUMMER ONLY. Prerequisite: departmental approval. Work in placements related to academic studies. Does not apply to major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment is required for each semester hour of academic credit.

**STA 349A. Cooperative Study: Statistics. (0.5-8 Credits)**

I, II. (1-6) SUMMER ONLY. Prerequisite: departmental approval. Work in placements related to academic studies. Does not apply to major or minor requirements. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours of employment is required for each semester hour of academic credit.

**STA 349B. Cooperative Study: Statistics. (0.5-8 Credits)**

Work in placements related to academic studies. Does not apply to major or minor requirements.

**STA 349C. Cooperative Study: Statistics. (0.5-8 Credits)**

Work in placements related to academic studies. Does not apply to major or minor requirements.

**STA 349D. Cooperative Study: Statistics. (0.5-8 Credits)**

Work in placements related to academic studies. Does not apply to major or minor requirements.

**STA 349E. Cooperative Study: Statistics. (0.5-8 Credits)**

Work in placements related to academic studies. Does not apply to major or minor requirements.

**STA 375. Sampling Methods. (3 Credits)**

A. Prerequisite: STA 270 with a minimum grade of "C"; or STA 215 with a minimum grade of "B", and one of the following: MAT 112 or 112B or higher with a minimum grade of "C" or a Math ACT score of 23 or higher, or a score of 560 or higher; or departmental approval. Basic concepts of sampling theory, simple random sampling, stratified random sampling, cluster sampling, systematic sampling, ratio and regression estimation, applications to surveys, and use of statistical software. Written and/or oral presentations required.

**STA 380. Nonparametric Statistics. (3 Credits)**

Prerequisite: STA 270 with a minimum grade of "C"; or STA 215 with a minimum grade of "B" and one of the following: MAT 112 or 112B or higher with a Grade of "C" a Math ACT score of 23 or higher, or a Math SAT score of 560 or higher; or departmental approval. Simple, efficient nonparametric methods without normality assumptions. Tests, estimation of proportions, medians, two-sample location/dispersion, one and two-way layout, independence, regression, and use of statistical software. Credit will not be awarded to students who have credit for STA 501.

**STA 382. Probability for Actuaries. (1 Credit)**

A. Prerequisite: STA 370 or 520. Review of elementary probability theory, univariate and multivariate probability distributions, moment generating functions, transformations, order statistics, and applications of probability concepts in a risk management context. Preparation for Exam P.

**STA 470. Applied Probability. (3 Credits)**

Formerly STA 370. Prerequisites: Mat 244 of 244H or 254 or 254H; and STA 215 or 270; or departmental approval. Intuitive and axiomatic development of probability, set theory, counting techniques, conditional probability, Bayes Theorem, discrete distributions including univariate and bivariate cases, multinomial distributions, Markov Chains, and emphasis on applications. Credit will not be awarded to students who have credit for STA 370.

**STA 480. Seminar in \_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Topic announced at the time of offering. May be retaken to a maximum of 12 hours, provided the topics are different.

**STA 485. Probability for Actuaries. (2 Credits)**

A. Formerly STA 385. Prerequisite: STA 470, MAT 520 or STA 520. Review of elementary probability theory, univariate and multivariate probability distributions, moment generating functions, transformations, order statistics, and applications of probability concepts in a risk management context. Preparation for Actuarial Exam P. Credit will not be awarded to students who have credit for STA 385.

**STA 495. Independent Work. (1-3 Credits)**

A. Prerequisite: departmental approval. Directed study/ research on a problem or area chosen in consultation with instructor. Final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

**STA 498W. Statistics Capstone. (3 Credits)**

A. Prerequisite or corequisite: MAT 520 (C) or STA 520 (C), senior standing, Statistics majors only. Careers in statistics, advanced topics in statistics, statistical research, statistical consulting, written and verbal communication skills, use of presentation software, and use of statistical software. Credit will not be awarded to students who have credit for STA 498.

**STA 507. Seminar in Statistics:\_\_\_ (1-3 Credits)**

A. Prerequisite: departmental approval. Topics vary with offering. May be retaken with advisor approval, provided that the topics are different. Credit toward degree requirements will depend on the course content.

**STA 520. Mathematical Statistics I. (3 Credits)**

I. Cross-listed as MAT 520. Prerequisites: STA 215 or 270. Prerequisite or Corequisite: MAT 254 or 254H. Descriptive statistics, discrete and continuous probability distributions for one and two variables, functions of random variables, sampling distributions, expectations and generating functions. Credit will not be awarded to students who have credit for MAT 520.

**STA 521. Mathematical Statistics II. (3 Credits)**

II. Prerequisites: MAT 239; MAT 520 or STA 520. A continuation of STA 520. Estimation theory, hypothesis testing, linear regression analysis of variance, and allied topics.

**STA 570. Quality Control & Reliability. (3 Credits)**

(3) A. Prerequisites: Senior standing, MAT 234 or 234H, and STA 340. Analysis of six sigma techniques, statistical analysis of process capability, statistical process control using control charts, quality improvement, acceptance sampling, and an introduction to product reliability.

**STA 575. Statistical Methods Using SAS. (3 Credits)**

A. Prerequisite: STA 270 with a minimum grade of "C"; or STA 215 with a minimum grade of "B", and one of the following: MAT 112 or 112B or higher with a minimum grade of "C" or a Math ACT score of 23 or higher, or a Math SAT score of 560 or higher; or departmental approval. Data set manipulation, application of statistical techniques in SAS, and statistical programming.

**STA 580. R and Introductory Data Mining. (3 Credits)**

A. Cross-listed as DSC 580. Prerequisite: STA 270 with a minimum grade of "C", or 215 with a minimum grade of "B", and CSC 170 or 174 or 189 or 190. Data set manipulation, application of statistical techniques in R, statistical programming, and data mining skills. Credit will not be awarded to students who have credit for DSC 580.

**STA 585. Experimental Design. (3 Credits)**

A. Prerequisites: STA 270 or departmental approval. Completely randomized designs, factorial experiments, multiple comparisons, model diagnostics, randomized blocks, latin squares, fixed and random models, nested-factorial experiments, 2<sup>f</sup> factorial experiments, and split-plot designs. Emphasis on applications and use of statistical software.

**STA 707. Seminar in Statistics:\_\_\_\_\_ . (1-3 Credits)**

A. Topics vary with offering. May be retaken with advisor approval, provided the topics are different. Credit towards degree requirements will depend on the course content.

**STA 720. Mathematical Statistics I. (3 Credits)**

A. Cross-listed as MAT 720. Descriptive statistics, discrete and continuous probability distributions for one and two variables, functions of random variables, sampling distributions, expectations and generating functions. Credit will not be awarded to students who have credit for MAT 720. It is strongly recommended that students have completed eight hours of calculus.

**STA 721. Mathematical Statistics II. (3 Credits)**

heA. Prerequisite: MAT 520, 720, STA 520 or STA 720. A continuation of STA 720. Estimation theory, hypothesis testing, linear regression, analysis of variance, and allied topics. It is strongly recommended that students have completed a course in linear algebra.

**STA 770. Quality Control & Reliability. (3 Credits)**

(3) A. Analysis of six sigma techniques, statistical analysis of process capability, statistical process control using control charts, quality improvement, acceptance sampling, and an introduction to product reliability. It is strongly recommended that students have completed a course in calculus and STA 700, 721, or two courses in applied statistics.

**STA 775. Statistics Methods Using SAS. (3 Credits)**

(3) A. Data set manipulation, application of statistical techniques in SAS, and statistical programming. It is strongly recommended that students have completed a course in applied statistics.

**STA 780. R and Introductory Data Mining. (3 Credits)**

A. Cross-listed as DSC 780. Data set manipulation, application, of statistical techniques in R, statistical programming, and data mining skills. It is strongly recommended that students have completed a course in applied statistics and an introductory course in computer programming. Credit will not be awarded to students who have credit for DSC 780.

**STA 785. Experimental Design. (3 Credits)**

A. Completely randomized designs, factorial experiments, multiple comparisons, model diagnosis, randomized blocks, Latin squares, fixed and random models, nested-factorial experiments, 2<sup>f</sup> factorial experiments, and split-plot designs. Emphasis on applications and use of statistical software. It is strongly recommended that students have completed a course in applied statistics.

**STA 800. Applied Statistical Inference. (3 Credits)**

A. Data collection, descriptive statistics, basic probability, confidence intervals, hypothesis testing, linear regression, chi-square tests, analysis of variance, and use of statistical software. Credit does not apply toward the Concentration in Applied Mathematics and Statistics or the Concentration in Data Science and Statistics under the M.A. in Applied Mathematics. Credit will not be awarded for STA 700 and STA 800.

**STA 835. Linear Models. (3 Credits)**

(3) A. Prerequisite: Use of matrix algebra to develop theory of linear models. General linear models, estimability, multivariate normal distribution, estimation, testing, prediction, restricted models, models with general covariance structure, reparameterization, multi-part model, and random and mixed models. It is strongly recommended that students have completed a course in applied statistics and a course in linear algebra.

**STA 839. Co-op or Appl. Lrn: Statistics. (0.5-3 Credits)**

A. Prerequisite: departmental approval. May be retaken with approval to a maximum of three credits. Employment with faculty and field supervision in an area related to the student's academic interests. A minimum of eighty hours of employment is required for each academic credit.

**STA 840. App Multi Statistical Analysis. (3 Credits)**

(3) A. Prerequisite: Analysis of variance and simple linear regression review, multiple linear regression, multivariate analysis of variance, multivariate analysis of covariance, repeated measures ANOVA, discriminant analysis, factor analysis, principal component analysis, and use of statistical software. It is strongly recommended that students have completed courses in applied statistics.

**STA 880. Seminar in:\_\_\_\_\_ . (1-3 Credits)**

A. Advanced topics in Statistics. May be retaken to a maximum of six hours provided the topics are different. Credit towards degree requirements will depend on the course content.

**STA 890. Independent Study in \_\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Independent study on a problem chosen by the student and instructor. Student must have the independent study proposal form and course syllabus approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of nine hours, provided the topics are different.

## Study Abroad (SAB)

**SAB 100. Study Abroad. (0 Credits)**

## Sustainable Hospitality (SHO)

**SHO 341. Sustainable Hospitality. (3 Credits)**

(A). An examination of the history, purpose, and global practices in sustainable hospitality and tourism. Special attention to initiatives, organizations, and stakeholders that support sustainable hospitality development.

**SHO 410. Multigenerational Programming. (3 Credits)**

(A). An exploration of hospitality and tourism programming to meet the needs of individuals across the lifespan. Emphasis on developmentally appropriate activities and programs within each sector of the hospitality and tourism industry.

**SHO 420. Sustainable Global Practices. (3 Credits)**

(A). Pre-requisite SHO 341. Analysis of sustainable global practices in hospitality and tourism industries. Application of sustainable practices in a variety of sectors incorporating system approaches.

**SHO 460. Universal Sustainable Design. (3 Credits)**

(A). An exploration of universal design and sustainable practices utilized in hospitality and tourism industries to support inclusivity and social justice.

**SHO 475. Promoting Hospitable Exp. (3 Credits)**

(A). Pre-requisite GHT 310. A study of strategies used to enhance and promote the hospitality and tourism experience. Includes tourism branding, service culture development, and marketing.

## SWK Social Work (SWK)

**SWK 210. Introduction to Social Work. (3 Credits)**

I, II. Introduces philosophy, values, ethics, and processes of the social work profession; emphasizes the bases of Generalist practice theory; areas of practice; social justice and the role of violence in society.

**SWK 225. Human Behavior/Social Environment. (3 Credits)**

I, II. Prerequisites: SOC 131 and PSY 200. Prerequisite or co-requisite: SWK 210. Bio-psycho-social perspective of human behavior and social interactions based on systems theory. Explores traditional and alternative paradigms of developmental life cycle and family interactions. Emphasis on developmental diversity in a multicultural society.

**SWK 310. Social Welfare Policy History. (3 Credits)**

I, II. Prerequisite: ENG 102, or ENG 105(B), or HON 102. History of social welfare policy, its role and relationship with other social institutions; structure and function of U.S. system compared to other national systems; inequitable distribution of resources, and its contribution to an oppressive environment. Credit will not be awarded to students who have credit for SWK 310W.

**SWK 310W. Social Welfare Policy History. (3 Credits)**

I, II. Prerequisites: ENG 102 or ENG 105 (B) or HON 102. History of social welfare policy; its role and relationship with other social institutions, structures and function of U.S. system compared to other national systems; inequitable distribution of resources; and its contribution to an oppressive environment. Credit will not be awarded to students who have credit for SWK 310.

**SWK 335. Human Behavior/ Social Environment II. (3 Credits)**

I, II. Prerequisites: SWK 210. Prerequisite or corequisite: SWK 225. Examination and application of theories of community, organizational and group behavior. Critical analysis of the social, economic and political forces and institutions that impact human behavior.

**SWK 340. Social Work Research Methods. (3 Credits)**

I, II. Prerequisite: SWK 310. Prerequisite or corequisite: SWK 390 and SOC 232. The course teaches application of both qualitative and quantitative research methods within the context of social work practice.

**SWK 344. Stress Management & Self Care. (3 Credits)**

(3) A. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. Introduction to the science of stress and stress management focusing on developing lifetime habits of wellness and self-care for the helping professions. Major focus on experiential, evidence-based stress management exercises. Fulfills University Wellness requirement.

**SWK 350. Social Work Practice I. (3 Credits)**

I, II. Prerequisite: Admission to the Social Work Program, SWK 225 and SWK 310. Prerequisite or Corequisite: SWK 335. Corequisite: SWK 354. Theoretical base for social work practice from a generalist perspective. Focuses on the social work process: problem identification; data collection and synthesis; assessment; planning and intervention; termination; and evaluation. Emphasis on multidimensional assessment and practice ethics.

**SWK 354. Social Work Practice Methods. (3 Credits)**

I, II. Corequisite: SWK 350. Focuses on interactional activities and exercises that foster the development of interviewing skills, data collection, contracting, synthesis, assessment, service contracting and use of relationship skills.

**SWK 355. Social Work Practice II. (3 Credits)**

I, II. Prerequisites: SWK 335, SWK 350, and SWK 354. Addresses the social work process with groups and families with a focus on assessments, intervention, implementation, and evaluation of practice strategies. Facilitation of psycho-educational groups to practice group work skills.

**SWK 358. Child Abuse and Neglect. (3 Credits)**

A. Prerequisite: Admission to the Public Child Welfare Certification Program (PCWCP) and departmental approval. Knowledge base for identification, risk determination and psycho-social assessment of child abuse, neglect and dependency situations. Explores service delivery, role of the court, and the impact of cultural and institutional violence. Required course for PCWCP.

**SWK 360. Social Work Practice III. (3 Credits)**

I, II. Prerequisite: SWK 335 and SWK 350. Prerequisite or corequisite: SWK 390. Social Work process and skills applied to assessment and intervention with networks, organizations, and communities. Emphasis on community research; program development and evaluation; grantsmanship; strategies to advance social justice and address institutional and cultural violence.

**SWK 365. Crisis Intervention. (3 Credits)**

(3) I, II. Prerequisite: ENG 102 or 105(B) or HON 102. This course will examine current theories pertaining to crisis intervention, assessment strategies, key public policy issues, and the treatment system. This course uses on-line discussion, presentations, and videos to facilitate learning.

**SWK 390. Field Experience in a Social Agency. (3 Credits)**

I, II. Prerequisite: SWK 350 and SWK 354 and overall GPA 2.5 or above. Co-requisite: Personal Liability Insurance. A total of 112 hours spread over the semester in an agency, or community program approved by Field Education Coordinator plus weekly seminar is required. Applications of practice theory and process. Application must be made through Field Education Coordinator the semester preceding placement. Social Work majors only.

**SWK 410. Social Welfare Policy Practice. (3 Credits)**

I, II. Prerequisites: SWK 310 or 310W. Dynamics of policy implementation at administrative, judicial, and legislative levels: policy analysis, formulation, modification, and evaluation; focus on policies that contribute to social injustices and policies that foster the creation, enhancement, or promotion of violence.

**SWK 440. Addictions. (3 Credits)**

I, II. Prerequisites: Junior or Senior standing. Open to all majors. This course will examine how to assess, intervene, and treat individuals, families, and groups with substance abuse and other addictions. The course will examine addictions from a strengths perspective.

**SWK 450. Child Abuse Interventions. (3 Credits)**

A. Prerequisite: SWK 358 and admission to Public Child Welfare Certification Program (PCWCP). Development of assessment, intervention, and prevention skills in child abuse and neglect. Focus is on public agency involvement. Required course for PCWCP.

**SWK 455. Selected Topics in Social Work. (3 Credits)**

A. Prerequisite: departmental approval. Recommended Junior or Senior standing. Open to all majors. Course content will be determined by interests and developments in the profession. May be retaken to a maximum of nine hours.

**SWK 456. Children's Services. (3 Credits)**

A. Prerequisite: instructor approval. Critical appraisal of societal values of priorities underlying services to children. Examines range of services and skills used in social work practice with children; understanding psycho-social needs of children.

**SWK 457. Assessing Needs of Older Adults. (3 Credits)**

A. Examines societal values relating to the elderly; psycho-social needs of the elderly; community-based and institutional services; and dynamics of working with the elderly and their families. Open to all majors.

**SWK 490. Social Work Practicum. (12 Credits)**

I, II. Prerequisites: Overall GPA of 2.5 and completion of all other major requirements with a minimum grade of "C." Corequisite: Personal Liability Insurance. Supervised practice in a social agency approved by Field Education Coordinator. A total of 384 hours over the course of the semester plus a weekly seminar is required. Application must be made through Field Education Coordinator the semester preceding placement. Social Work majors only.

**SWK 495. Independent Study in Social Work. (1-6 Credits)**

(1-6) A. Student must consult with the faculty supervisor and have the independent study proposal form approved by faculty supervisor, program director, and departmental chair prior to enrollment. May be retaken to a maximum of six hours.

**SWK 499. Directed Research in Social Work. (3 Credits)**

A. Prerequisite: Departmental approval. A directed research experience for social work majors that integrates a research experience with the students' professional development and the production of a substantive deliverable product (e.g., poster or conference presentation).

**SWK 561. Alcohol and Drug Assessment. (3 Credits)**

A. Prerequisite: Junior or senior standing. Provides clinical and scientific knowledge about the history and range of consequences associated with alcohol and drug addiction. Credit will not be awarded for both SWK 561 and SWK 761.

**SWK 562. Alcohol and Drug Treatment. (3 Credits)**

A. Prerequisite: Junior or senior standing. Open to all majors. Provides clinical and scientific knowledge about the treatment of alcohol and drug addiction. Credit will not be awarded for both SWK 562 and SWK 762.

**SWK 761. Alcohol and Drug Assessment. (3 Credits)**

A. Prerequisite: Departmental approval. Provides clinical and scientific knowledge about the history and range of consequences associated with alcohol and drug addiction. Credit will not be awarded for both SWK 561 and SWK 761.

**SWK 762. Alcohol and Drug Treatment. (3 Credits)**

A. Prerequisite: Departmental approval. Provides clinical and scientific knowledge about the treatment of alcohol and drug addiction. Credit will not be awarded for both SWK 562 and SWK 762.

**SWK 800. The Social Work Relationship. (3 Credits)**

(3) A. Introduction to generalist social work practice including the importance of self-care, professional ethics, and respect for diversity with the opportunity to build skills in facilitating therapeutic relationships.

**SWK 810. Human Behav Social Enviro I. (3 Credits)**

(3) I, II. Applies current research and various paradigms to explain how biopsychosocial-spiritual development across the lifespan and in relation to the social environment shapes individual functioning and family interactions.

**SWK 815. Human Behav Social Enviro II. (3 Credits)**

(3) I, II. Prerequisite: SWK 800 with a minimum grade of "B" or departmental approval. Prerequisite or corequisite: SWK 810. Applies current research and various paradigms to explain how social, cultural forces, and institutions shape group, organization, and community interactions.

**SWK 820. Social Work Practice I. (3 Credits)**

(3) I, II. Prerequisite: SWK 800 and SWK 810 with a minimum grade of "B" or departmental approval. Corequisite: SWK 825. Foundation for social work practice with individuals. Draws from current research and various paradigms with the opportunity to practice facilitating the generalist intervention method to develop skills in ethical, culturally inclusive micro practice.

**SWK 825. Social Work Research Methods. (3 Credits)**

(3) I, II. Prerequisite: SWK 800 and SWK 810 with a minimum grade of "B" or departmental approval. Prerequisite or Corequisite: SWK 820. Foundation for qualitative and quantitative research with the opportunity to critically evaluate research methodology and plan a research study for ethical, culturally inclusive social work practice across client systems.

**SWK 830. Social Work Practice II. (3 Credits)**

(3) I, II. Prerequisites: SWK 815 and SWK 820 with a minimum grade of "B" or departmental approval. Foundation for social work practice with families and groups. Draws from current research and various paradigms with the opportunity to practice facilitating a psychoeducational group to develop skills in ethical, culturally inclusive mezzo practice.

**SWK 840. Social Work Practice III. (3 Credits)**

(3) I, II. Prerequisite: SWK 815, SWK 820 and SWK 830 with a minimum grade of "B" or departmental approval. Prerequisite or corequisite: SWK 845. Foundation for generalist social work practice with organizations and communities. Draws from current research and various paradigms with the opportunity to practice facilitating a task group to develop skills in ethical, culturally inclusive macro practice.

**SWK 845. Soc Policy Analy and Advoc. (3 Credits)**

(3) I, II. Prerequisite: SWK 800 with a minimum grade of "B" or departmental approval. Engages students as agents of change starting with policy analysis, formulation, modification, and evaluation at administrative, judicial, and legislative levels. There is an emphasis on personal and social empowerment to foster policies and practices that support a just society.

**SWK 850. Generalist Practicum. (1-3 Credits)**

I, II. Prerequisite: Admission to the MSW Social Work Program, Practicum Placement Approved by Field Director, SWK 800 and SWK 810 completed with at least a "B" or departmental approval. Supervised practice in a social agency and seminar to discuss the application of social work knowledge, skills, competencies, behaviors, ethics and values necessary for ethical, culturally inclusive, and evidence-based generalist practice. May be retaken to a maximum of six hours.

**SWK 855. Generalist Capstone. (2 Credits)**

I, II. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or departmental approval. Opportunity to review, integrate, and apply knowledge for the demonstration of proficiency with all nine competencies in generalist practice as a foundation for ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 860. Integrative Micro Practice. (3 Credits)**

I, II. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or departmental approval. Opportunity to integrate micro-level social work and relevant theories, skills, and research for the delivery of ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 863. Stress Management & Self-Care. (3 Credits)**

A. Prerequisite: Departmental approval. Addresses what supports a healthy lifestyle that includes stress management and perceived quality of life. Emphasis is on evidence-based approaches and experiential learning to inform the development and maintenance of a plan for self-care.

**SWK 864. Child and Family Services. (3 Credits)**

A. Prerequisite: Departmental approval. Critical appraisal of societal values underlying services to children. Examines a range of social and child welfare services, impact of public policies, and interventions to support children and families.

**SWK 865. Social Gerontology. (3 Credits)**

A. Prerequisite: Departmental approval. Applies current research and various paradigms to describe factors that shape the aging process. Class activities inspire new insights that can be used to better support older adults and their families.

**SWK 866. Crisis Intervention. (3 Credits)**

A. Prerequisite: Departmental approval. Examination of current theories pertaining to the fundamentals of trauma and traumatic stress that can lead to crisis. The implications of crisis intervention to modify, manage, and cope with trauma will be addressed.

**SWK 867. Spirit Sensitivity Help Profes. (3 Credits)**

A. Prerequisite: Admission to ECU Graduate School or departmental approval. Describes how professionals can address spiritual issues that emerge in health and mental care settings. Students will also explore how their own beliefs influence daily life and work.

**SWK 870. Integrative Mezzo Practice. (3 Credits)**

A. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or departmental approval. Opportunity to integrate mezzo-level social work and relevant theories, skills, and research for the delivery of ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 880. Integrative Macro Practice. (3 Credits)**

A. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or departmental approval. Opportunity to integrate mezzo-level social work and relevant theories, skills, and research for the delivery of ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 890. Integrative Practicum. (1-4 Credits)**

A. Prerequisite: Admission to Advanced Standing or all generalist courses completed with a minimum grade of "B" or "S" and field director approval of placement. Corequisite: SWK 860 or SWK 870 or SWK 880. Supervised practice in a social agency and foundation seminar to integrate social work and relevant knowledge for ethical, culturally inclusive, and evidence-based practice. May be retaken to a maximum of eight hours.

**SWK 895. Integrative Capstone. (2 Credits)**

(2). I, II. Prerequisite: All generalist and advanced courses completed with a minimum grade of "B" or departmental approval. Opportunity to review, integrate, and apply knowledge for the demonstration of proficiency with all nine competencies that inform ethical, culturally inclusive, and evidence-based interprofessional social work practice.

**SWK 899. Indep Study in Social Work. (1-3 Credits)**

A. Student must consult with the faculty project advisor and have the independent study proposal form approved by their faculty project advisor, program director, and department chair prior to enrollment. Course may include intensive reading in a specialized area, synthesizing literature on a topic, completing a research project, or other assignment arranged with faculty advisor. May be retaken to a maximum of nine hours.

## TEC Technology, General (TEC)

**TEC 102. Technology and Society. (3 Credits)**

I, II. The role of technology in society. Characteristics of a technologically literate citizen. Perspectives, theories, issues, concerns, and facts to support the recognition of the forces and consequences of technological change. Evolution and current trends of diverse technologies.

**TEC 141. Elementary Woodworking. (3 Credits)**

I, II. Basic instruction in the use of common hand tools, basic machine operations, problems in furniture construction, related technical information, and finishing materials and methods. Not open to students majoring in a program within the department. 2 Lec/2 Lab.

**TEC 161. Computer Applications in Technology. (3 Credits)**

I, II. A survey of computer systems and software applications including word processing, document formatting, spreadsheets, presentations, databases, project planning, and selected computing/simulation tools currently used in technology related fields. 2 Lec/2 Lab .

**TEC 190. Technical Graphics. (3 Credits)**

I, II. Shape and size description of objects using conventional projection techniques; multiview, axonometric, oblique, and perspective. Emphasis is placed on sketching with paper and pencil and with computers. 2 Lec/2 Lab.

**TEC 255. Web Publishing. (3 Credits)**

I. A basic course in using current Web standards to prepare content for the World Wide Web that includes HTML, XHTML and Cascading Style Sheets. 2 Lec/2 Lab.

**TEC 303. Problem Solving and Engineering. (3 Credits)**

A. Prerequisites: TEC 190 or departmental approval. Application of the principles of engineering design related to various media; emphasis on experimentation and problem solving in development and construction of engineering design solutions. 2 Lec/2 Lab.

**TEC 305. Creative Problem Solving. (3 Credits)**

(3) I. Prerequisite: CRE 101 or departmental approval. A review and analysis of basic and applied research in the development of creative behavior with emphasis on its application to methods and techniques used in creative problem solving in personal/professional settings.

**TEC 313. Digital Photography. (3 Credits)**

A. A study of current technology used to digitize photographic images for use in computer application programs. This includes the acquisition of images from scanners and digital cameras. 2 Lec/2 Lab.

**TEC 314. Engineering in Classroom Context. (3 Credits)**

I, II. Cross listed as EDC 314. Sophomore standing or above. Introduction of engineering and technology to promote problem solving skills, tool use, materials processing, design capabilities, and product completion. Applications for K-8 classrooms are emphasized. Credit will not be awarded to students who have credit for EDC 314.

**TEC 315. Photography. (3 Credits)**

A. Emphasis on black and white film photography including use and care of equipment, exposure calculations and techniques and finishing. A 35mm camera with adjustable lens and shutter control is required. 2 Lec/2 Lab.

**TEC 322. Crafts for Children. (3 Credits)**

I, II. Introduction to various craft media and their application in recreational elementary crafts programs. Emphasis on activities appropriate for children and the use of inexpensive and readily available materials. 2 Lec/3 Lab.

**TEC 331. Casework Detailing. (3 Credits)**

I. Prerequisites: DES 222 and INT 195. The planning and production requirements of architectural millwork and the drawings needed to describe its construction. The production of a complete set of working drawings for a casework piece will be required. 2 Lec/2 Lab.

**TEC 332. Product Design. (3 Credits)**

I, II. Prerequisite: TEC 391. Elements of product design as it relates to materials, such as woods, metals, and plastics. Emphasis placed on experimentation and problem solving in developing design solutions, detailed drawings, and illustrations and the presentation of design ideas. 2 Lec/2 Lab.

**TEC 333. Special Problems in Technology. (1-6 Credits)**

I, II. An independent study course for exceptional undergraduate students. A study proposal will be developed by the student and approved by the faculty supervisor and department chair prior to enrollment. May be retaken provided the topic of study is different.

**TEC 349. Applied Learning in Technology. (0.5-8 Credits)**

I, II. Prerequisite: departmental approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours work required for each academic credit.

**TEC 349J. Coop Study in Technology. (0.5-8 Credits)**

Work under faculty and field supervisors in placements related to academic studies.

**TEC 355. Web Animation. (3 Credits)**

II. Prerequisite: TEC 255. Web animation with advanced Web programming. 2 Lec/2 Lab.

**TEC 368. Workshop in Technology. (1-4 Credits)**

A. Presentation of technology topics of a timely or specialized nature in a workshop format. May be retaken provided the topics are different.

**TEC 404. Princ. of Engr. and Tech.. (3 Credits)**

A. Prerequisite: CTE 361 or departmental approval. To familiarize students with important principles of engineering and technology, including electrical, civil, mechanical and other engineering and technology areas. 2 Lec/2 Lab.

**TEC 801. Special Problems in Technology. (2-6 Credits)**

I, II. An independent study course for graduate students. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken if the topic of study is different.

**TEC 830. Creative Problem Solving. (3 Credits)**

A. A review and analysis of basic and applied research in the development of creative behavior with emphasis on its application to teaching/training and industrial problem solving. Students will be expected to complete a term project showing their creative abilities.

**TEC 831. Applied Problem Solving. (3 Credits)**

A. Prerequisite: TEC 830. Students will strengthen problem solving through the completion of an independent project. Students will propose a process and produce a finished project. Documentation of the process will be used as a foundation for evaluation.

**TEC 833. Workshop in Technology. (1-4 Credits)**

A. Presentation of technology topics of a timely or specialized nature in a workshop format. May be retaken if the topics are different.

**TEC 860. Research in Technology. (3 Credits)**

(3) A. A study of research methods as they apply in technological fields. Involves the development of a review of literature, a research proposal, and the use of descriptive and inferential statistics.

**TEC 867. Independent Study in Tech:\_\_\_\_. (3 Credits)**

A. Independent research in technology supervised by the graduate advisor and other staff members. Topic must be approved before registration. May be retaken to a maximum of six hours.

## THE Theatre Arts (THE)

**THE 100. Introduction to the Theatre. (3 Credits)**

I, II. Understanding and appreciating the arts of the theatre, development of dramatic forms and practices, consideration of the elements of contemporary theatrical practice. Analysis of plays. Attendance at selected play productions required. Gen. Ed. Element 3A.

**THE 110. Stagecraft. (3 Credits)**

II. Problems of stagecraft dealing with the scenic process; use of materials, construction and handling of scenery; and basic stage electricity. Lecture and lab.

**THE 130. Theatre Arts Practicum. (1 Credit)**

A. Study and practice of theater design, technical production, or performance through participation in departmental productions. May be retaken to a maximum of 6 hours.

**THE 135. Acting I. (3 Credits)**

I, II. Investigation and practice of the fundamentals in the acting process. Course work will include physical and mental preparation for the actor, improvisation, and beginning scene work.

**THE 200. Theatrical Makeup. (2 Credits)**

A. Techniques in application and design of stage makeup, both straight and character.

**THE 210. Advanced Stagecraft. (3 Credits)**

A. Prerequisite: THE 110. A continuation of THE 110 with emphasis on lighting, sound, and properties.

**THE 220. Costume Construction. (3 Credits)**

A. Study and practical experience in garment construction and related costume crafts as used in theatre costume design. 2 Lec/2 Lab.

**THE 235. Acting II. (3 Credits)**

I. Prerequisite: THE 135. Study and practice in analysis, character development and rehearsal as related to scene study; emphasis on twentieth-century acting styles.

**THE 280. Acting for Musical Theatre. (3 Credits)**

A. Prerequisite: THE 135. Study of Musical Theatre as an art form, and an examination of the acting process and how it applies to the musical genre; performance work is included.

**THE 300. Stage Management. (3 Credits)**

A. Prerequisites: THE 110 and 235 or departmental approval. An in-depth study of the work and responsibilities of the stage manager in theatrical production.

**THE 310. Scenic Design. (3 Credits)**

A. Prerequisite: THE 110 or instructor approval. Principles of composition, scale, perspective, and color applied to the stage; production of ground plans, sketches, and models.

**THE 311. Stage Lighting. (3 Credits)**

A. Prerequisite: THE 110 or instructor approval. Examination of theories of lighting with application to the stage, mixed media and dance. Consideration given to color principles, lighting instruments and control equipment. Lecture and lab.

**THE 320. Costume Design. (3 Credits)**

A. Design and execution of theatrical costumes with emphasis on originality, color and line. Attention given to costumes of various periods and styles.

**THE 330. Theatre Arts Practicum II. (1 Credit)**

A. Prerequisite: THE 130 or departmental approval. Continuation of THE 130. May be retaken to a maximum of 6 hours.

**THE 335. Acting III. (3 Credits)**

A. Prerequisites: THE 135; THE 235 or departmental approval. Advanced study and rehearsal in verse drama, concentrating on language and action analysis, and character development for performance; emphasis on Shakespearean scripts.

**THE 341. Directing. (3 Credits)**

A. Prerequisite: THE 235 or instructor approval. An introduction to the principles of play directing. Study of play selection and analysis, characterization, composition, blocking, and casting and rehearsal procedures.

**THE 349. Applied Learning in Theatre Arts. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**THE 349A. Cooperative Study: Theatre Arts. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours credit per semester or summer. Total hours: eight, associate; sixteen, baccalaureate. A minimum of 80 hours employment required for each semester hour credit.

**THE 349B. Cooperative Study: Theatre Arts. (0.5-8 Credits)**

Work in placements related to academic studies.

**THE 349C. Cooperative Study: Theatre Arts. (0.5-8 Credits)**

Work in placements related to academic studies.

**THE 349D. Cooperative Study: Theatre Arts. (0.5-8 Credits)**

Work in placements related to academic studies.

**THE 390. Theatre History I. (3 Credits)**

I, A. Intensive examination of development of theatre from the Greeks to the French Renaissance. The historic origins of theatrical conventions will also be examined through attendance at live theatre, and readings of dramatic literature. Gen Ed. E-3A or E-3B.

**THE 391. Theatre History II. (3 Credits)**

II, A. Prerequisite: ENG 102, 105(B), or HON 102. Examination of the development of theatre and dramatic literature from the English Restoration to the modern period. Experiences include attendance at live theatrical events and applying knowledge of historical periods to create aesthetic judgment. Gen Ed. E-3A or E-3B.

**THE 430. Dramatic Literature. (3 Credits)**

A. Cross listed as ENG 430. Survey of the major periods and genres of world dramatic literature, from the Greeks to the present; selected readings from the major playwrights, critics, and theorists. Credit will not be awarded to students who have credit for ENG 430.

**THE 435. Acting IV. (3 Credits)**

A. Prerequisites: THE 135; THE 235 or departmental approval. Advanced study and rehearsal in period styles. Practice in character analysis and technique for performance. Exact course content may vary with instructor or needs of students.

**THE 490. Special Topics in Theatre Arts. (1-3 Credits)**

A. Presentation of course material of a timely, specialized or topical nature. Specific course orientation will appear beside title. May be retaken to a maximum of nine hours, if the subject matter is different.

**THE 495. Senior Seminar. (1 Credit)**

A. Majors with senior standing only. A capstone experience in theatre. Synthesis of students' total theatre education as well as creation of a professional resume and correspondence techniques.

**THE 499. Independent Study in Theatre. (1-3 Credits)**

I, II. Prerequisite: departmental approval. Independent study in theatre production and research. May be retaken to a maximum of six hours. Student must have the independent study proposal form approved by faculty supervisor and program coordinator prior to enrollment.

**THE 805. Independent Study in Theatre Arts. (1-3 Credits)**

A. Individual research and reading on a specified theatre arts topic. Regular consultation and final paper required. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment.

## TRS Traffic Safety (TRS)

**TRS 103. Safety in Personal Transportation. (2 Credits)**

A. Designed to survey the basic concept of safety; including the philosophy and concept of risk, countermeasures, accident proneness and safety instruction; experiences include a personal assessment of safety-related behavior emphasizing personal forms of transportation.

**TRS 225. Basic Fleet Management. (3 Credits)**

(3) A. A classroom and laboratory program designed to introduce personnel to problems and practices of motor fleet safety programming and regulatory requirements.

**TRS 233. Emergency and Defensive Driving. (3 Credits)**

A. Instruction for drivers in defensive driving techniques and emergency or unusual driving situations. Classroom and practice driving instruction in vehicle handling techniques.

**TRS 234. Beginning Motorcycle Safety. (3 Credits)**

A. Designed to develop in students the necessary concepts, principles, and competencies for use of two-wheeled motorized vehicles including minibikes, mopeds, and motorcycles. Motorcycles and helmets are provided.

**TRS 235. Emergency Vehicle Roadway. (3 Credits)**

A. Program designed to learn collision prevention and crash mitigation techniques needed when an impending driving emergency occurs in an emergency response vehicle. Included in the course work is theory to introduce and simulate avoidance maneuvers.

**TRS 285. Introduction to Driver and Traffic Safety. (3 Credits)**

A. Designed to provide the concepts, principles, judgment, and performance for safe, efficient use of the highway system. Exposure is provided to a multiple-phased driver education instruction program.

**TRS 322. Traffic Law Enforcement. (3 Credits)**

A. A course designed to provide the principles and practices of traffic law enforcement.

**TRS 332. Traffic Crash Causation and Investigation. (3 Credits)**

A. A study of the principles of traffic accident causation and techniques used in investigation. Designed to increase the investigator's knowledge and understanding necessary for gathering factual information through investigation as opposed to reporting traffic accidents.

**TRS 342. Advanced Accident Investigation. (3 Credits)**

A. Prerequisite: TRS 332. Course designed to prepare participants in advanced traffic accident investigation methods and techniques.

**TRS 349. Co-op or Appl Lrn: Traffic Saf. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours per semester or summer. A minimum of 80 hours work required for each academic credit.

**TRS 349A. Cooperative Study: Traffic Safety. (0.5-8 Credits)**

A. Prerequisite: departmental approval. Work in placements related to academic studies. One to eight hours per semester or summer. A minimum of 80 hours work required for each academic credit.

**TRS 349B. Cooperative Study: Traffic Safety. (0.5-8 Credits)**

Work in placement related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours work required for each academic credit.

**TRS 349C. Cooperative Study: Traffic Safety. (0.5-8 Credits)**

Work in placement related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours work required for each academic credit.

**TRS 349D. Cooperative Study: Traffic Safety. (0.5-8 Credits)**

Work in placement related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours work required for each academic credit.

**TRS 386. Methods and Educational Media in Driver and Traffic Safety. (3 Credits)**

A. Designed to provide the competencies to organize and instruct driver education utilizing the multimedia system and the simulation system of instruction.

**TRS 395. Marine Transportation Safety. (3 Credits)**

A. Prerequisite OSH 261 or OSH 361. This course explores the history of the development of marine safety and health and the functioning regulations. Emphasis is placed on OSHA 29 CFR standards and USCG Title 46 as resources.

**TRS 407. Independent Study in Driver and Traffic Safety Education. (1-6 Credits)**

A. Designed to give the student the opportunity to develop specific competencies by designing and conducting research in the broad area of traffic safety, or by independent reading assignments in the area of traffic safety education. Student must have the independent study proposal form approved by faculty supervisor and department chair prior to enrollment. May be retaken to a maximum of six hours.

**TRS 413. Current Developments in Driver and Traffic Safety. (3 Credits)**

A. Current problems, issues, trends, and developments in traffic safety are reviewed, analyzed, and evaluated.

**TRS 487. Behavioral Approaches to Driver and Traffic Safety. (3 Credits)**

A. Designed to study, analyze, and develop behavioral objectives applied to driving task instruction with study and evaluation of individualized learning approaches for programs in driver education.

**TRS 491. Special Topics:\_\_\_\_. (1-3 Credits)**

A. Prerequisite: departmental approval. Intensive study of selected topics in traffic and driver safety. May be retaken under different topics to a maximum of six hours.

**TRS 588. Laboratory Instructional Programs in Driver and Traffic Safety. (3 Credits)**

A. Designed to provide the background, knowledge, and competencies to instruct the laboratory phases of the multiple-car driving range and on-street instruction. Provided are experiences related to implementation and administration of such programs.

**TRS 788. Lab Inst Prog in Driver & TRS. (3 Credits)**

A. Designed to provide the background, knowledge, and competencies to instruct the laboratory phases of the multiple-car driving range and on-street instruction. Provided are experiences related to implementation and administration of such programs.

## UNP Study Abroad (UNP)

**UNP 200. Study Abroad:\_\_\_\_. (1-6 Credits)**

(1-6) Prerequisites: Study abroad Office approval required. Participate in an approved educational experience abroad. Student may earn up to 6 credit hours of international educational experience at this level provided course topic is not repeated.

**UNP 300. Study Abroad:\_\_\_\_. (1-6 Credits)**

(1-6) Prerequisites: Study abroad Office approval required. Participate in an approved educational experience abroad. Student may earn up to 6 credit hours of international educational experience at this level provided course topic is not repeated.

**UNP 400. Study Abroad:\_\_\_\_. (1-6 Credits)**

(1-6) Prerequisites: Study abroad Office approval required. Participate in an approved educational experience abroad. Student may earn up to 6 credit hours of international educational experience at this level provided course topic is not repeated.

**UNP 500. Study Abroad:\_\_\_\_. (1-6 Credits)**

(1-6) Prerequisites: Study abroad Office approval required. Participate in an approved educational experience abroad. Student may earn up to 6 credit hours of international educational experience at this level provided course topic is not repeated.

**UNP 700. Study Abroad:\_\_\_\_\_ (1-6 Credits)**

(1-6) Participate in an approved educational experience at a foreign university. Student may earn up to 6 hours for this course, provided topic is not repeated.

## VTS Veterans Studies (VTS)

**VTS 200. Intro to Veterans Studies. (3 Credits)**

A. Multidisciplinary study of military/veteran issues and perceptions of veterans. Explores impact of training/service on reintegration into civilian life and relationships. First course in VTS minor. Designed for non-veterans and veterans. Gen. Ed. Element 6.

**VTS 300. Veterans in Society. (3 Credits)**

A. Prerequisite: VTS 200 or equivalent proficiency. (Students entering VTS 300 by referral or placement receive three hours credit for VTS 200 if they make an A or B in 300.) Concentrated study of veteran subgroups, veterans' contributions to society, and the ways societal perceptions of military service influence homecoming experiences. May include field trips or service learning. Gen. Ed. E-6 [GE].

**VTS 349. Applied Learning for Veterans Studies. (0.5-8 Credits)**

A. Prerequisite or corequisite: VTS 200 and junior standing. Work or volunteer in an area related to Veterans Studies. 0.50 to eight hours credit. A minimum of 80 hours employment required for each semester hour credit. No more than 6 hours may count toward VTS program.

**VTS 349A. Cooperative Study: Veterans Studies. (0.5-8 Credits)**

A. Prerequisite: VTS 200 and junior standing. Work or volunteer in an area related to Veterans Studies. One to eight hours credit. A minimum of 80 hours employment required for each semester hour credit. No more than 3 hours may count toward VTS program.

**VTS 350. Special Topics:\_\_\_\_. (3 Credits)**

A. Prerequisite: VTS 200. Exploration of topics not covered in the existing VTS curriculum. May be taken for a maximum of six hours provided the subject matter is different each time.

**VTS 400. Veterans Studies Capstone Seminar. (3 Credits)**

A. Prerequisites: VTS 200 and 12 hours of VTS dimensional electives. Instructor mentored seminar incorporating previous gained knowledge concomitantly with course research to produce material presentable for publication and/or conference presentation. Class will organize a capstone symposium.

**VTS 401. Veterans Studies Capstone Project. (3 Credits)**

A. Prerequisites: VTS 200 and departmental approval. Mentored research project exploring veterans' identities, cultures, and experiences. Combines theories and perspectives learned in VTS with those found in the student's major.

**VTS 490. Independent Study. (3 Credits)**

A. Prerequisite: VTS 200 and junior standing. Independent research and study in an area related to veterans studies. Regular reports and final research paper required. Students must have the independent study proposal form approved by faculty supervisor and program director prior to enrollment.

**VTS 500. Veteran Identity Theory. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 102R, ENG 105(B), or HON 102, VTS 200, and Junior standing. Advanced study and application of interdisciplinary theories and perspectives to the topic of veteran identity.

**VTS 700. Veteran Identity Theory. (3 Credits)**

A. Designed for students in all areas. Advanced study and application of interdisciplinary theories and perspectives to the topic of veteran identity.

## WGS Women & Gender Studies (WGS)

**WGS 132. Introduction to the Family. (3 Credits)**

A. Cross listed as CDF 132. Ecological and systems approach applied to public and private family concepts; historical changes and current status; relationships among individuals, families, consumers, and communities; status of women, men, children and the elderly; public policy related to changes in the family. Credit will not be awarded to students who have credit for CDF 132.

**WGS 201. Intro to Women & Gender Studies. (3 Credits)**

A. Introduction to interdisciplinary field of women's, gender, and sexuality studies and feminist scholarship. Provides overview of the intersectionality of gendered experiences, images, and issues from a wide variety of disciplinary perspectives. Gen. Ed. Element 6.

**WGS 205. Sexualities and Social Issues. (3 Credits)**

A. (3). Cross-listed as SOC 205. An examination of the diversity of sexuality and related social issues in the United States and Globally. Topics include culture, history, law, mass media, politics, and religion. Credit will not be awarded to students who have credit for SOC 205 or WGS 302. Gen. Ed. E-6 [GE].

**WGS 300. Topics in Women and Gender Studies:\_\_\_\_. (3 Credits)**

A. Intensive study of selected topics related to recognizing and validating the experience of women and their contributions to society. May be retaken for a maximum of six hours provided the topics are different. Credit will not be awarded to students who have completed WGS 302, and Special Topics: Gender, Sexuality & Homophobia.

**WGS 303. Women in American History. (3 Credits)**

A. Cross listed as HIS 303. Prerequisite: three hours HIS or departmental approval. Social, economic, and cultural role of women in America. Women's work; social position and status; women in reform movements; feminism and the suffrage movements; the new feminism. Credit will not be awarded to students who have credit for HIS 303.

**WGS 304. Gender Perspectives on Contemporary Terrorism. (3 Credits)**

A. An interdisciplinary look at contemporary terrorism and U.S. policy. Analyzing the perception of women in the U.S. and elsewhere around the world, with particular focus on American, Iraqi, Afghan, Palestinian, and Muslim women. Credit will not be awarded to students who have credit for WGS 300 Special Topics; Gender Perspectives on Contemporary Terrorism.

**WGS 305. Domestic Violence. (3 Credits)**

A. Cross listed as CRJ 305. Prerequisite: CRJ 101 or PLS 103 or SJS 101 or COR 201 or WGS 201 or departmental approval. Examination of the theoretical and empirical literature on violence against women, children, and elders. Addresses such issues as physical and sexual abuse of children, courtship violence, domestic violence, marital rape, and elder abuse. Credit will not be awarded to students who have credit for CRJ 305.

**WGS 306. Masculinity & Popular Culture. (3 Credits)**

(3) A. Exploration of images and ideals of men and masculinity as they have evolved in popular culture due to race, class, culture, age, and sexuality. Prerequisites: ENG 102 or 105(B) or HON 102. Credit will not be awarded to students who have credit for WGS300 Special Topics: Masculinity & Popular Culture.

**WGS 308. Trans Studies. (3 Credits)**

(3) A. Prerequisites: ENG102 or 105(B) or HON102. Introduction to emerging field of Trans Studies through exploration of trans history, identities, experiences, politics, and culture in the contemporary U.S. Credit will not be awarded to students who have credit for WGS 300 Special Topics: Intersexuality & Transexuality.

**WGS 309. Women and Trauma. (3 Credits)**

(3) Prerequisite: ENG 102 or 105 (B) or HON 102. A study of contemporary psychological trauma theories with analysis of historical and contemporary representations of trauma in film, fiction, poetry, and American culture. Credit will not be awarded for both WGS 309 and WGS 300: Women and Trauma.

**WGS 310. Historical Costume & Soc Order. (3 Credits)**

A. Cross listed as ADM 310. History of dress from ancient Egypt through the 20th century. Factors which influence the style of dress are studied and relationship between costume of the past and current modes. Credit will not be awarded to students who have credit for ADM 310.

**WGS 311. Biology of Sex. (3 Credits)**

I, II. Prerequisites: ENG 102 or ENG 102R, 105(B) or HON 102 or departmental approval. Cross-listed as BIO 305. Fundamental principles related to human sexual reproduction. Structure, function, control, and coordination of the human reproductive system. Problems associated with fertility, sexuality, birth control. STD's and human population will be discussed. May not be used to satisfy area, major or minor requirements for Biology majors. Credit will not be awarded for both BIO 305 and WGS 311.

**WGS 331. Marriage and Intimate Relationships. (3 Credits)**

A. Cross listed as CDF 331. The process within and types of intimate relationships in contemporary times. Topics include singlehood, partner selection, marriage, divorce, remarriage, longterm enduring marriage, and factors which affect the success of intimate relationships. Credit will not be awarded to students who have credit for CDF 331.

**WGS 344. Violence Against Women. (3 Credits)**

Cross listed as CRJ 344. Prerequisites: Sophmore standing. Explores the social character of violence against women. A variety of theories are utilized to examine this phenomenon at the individual, organizational and societal levels. Credit will not be awarded to students who have credit for CRJ 344, or CRJ 423 Topical Seminar: Violence Against Women or WGS 300 Special Topics: Violence Against Women.

**WGS 349. Applied Learning in Women and Gender Studies. (0.5-8 Credits)**

A. Prerequisite: approval of Director of Women and Gender Studies. Work in job placements related to Women's Studies. One to eight hours credit. Minimum of 80 hours employment required for semester hour credit.

**WGS 349A. Cooperative Study: Women and Gender Studies. (0.5-8 Credits)**

A. Prerequisite: approval of Director of Women and Gender Studies. Work in job placements related to Women and Gender Studies. One to eight hours credit. Minimum of 80 hours employment required for semester hour credit.

**WGS 349B. Cooperative Study: Women and Gender Studies. (0.5-8 Credits)**

Formerly WMS 349B. Prerequisite: approval of Director of Women and Gender Studies. Work in job placements related to Women and Gender Studies. One to eight hours credit. Minimum of 80 hours employment required for semester hour credit.

**WGS 349C. Cooperative Study: Women and Gender Studies. (0.5-8 Credits)**

A. Formerly WMS 349C. Prerequisite: approval of Director of Women and Gender Studies. Work in job placements related to Women and Gender. One to eight hours credit. Minimum of 80 hours employment required for semester hour credit.

**WGS 364. Women's Literature. (3 Credits)**

A. Cross listed as ENG 364. Prerequisite: ENG 102 or 105 (B) or HON 102. Study of selected literature by women writers from varying cultures, genres, and periods. Credit will not be awarded to students who have credit for ENG 364. Gen. Ed Element 6.

**WGS 365. Women, Gender, and Religion. (3 Credits)**

(3) A. Cross-listed as REL 365. Prerequisite: ENG 102 or 105(B) or HON 102. A study of the intersections between feminism and the social impact of religion throughout the world with particular emphasis on the relationship between religion and gender, sexuality, and body politics. Credit will not be awarded for both WGS 365 and REL 365.

**WGS 366. Queer Theory and Literatures. (3 Credits)**

A. Cross-listed as ENG 366. Prerequisite: ENG 102 or 105 or HON 102. Examination of trends in Queer Theory; study of major contributors to the field as Foucault, Butler, and Sedgwick; application of theoretical models to literary and cinematic texts. Credit will not be awarded to students who have credit for ENG 366. Gen. Ed. E-6.

**WGS 378. Black Women in History. (3 Credits)**

A. Cross listed as AFA 378. Examines the lives of African-American women from slavery to the present with emphasis on the impact of race, gender, and class issues on their multi-faceted lives as women in America. Credit will not be awarded to students who have credit for AFA 378.

**WGS 380. Gender and Work in the U.S.. (3 Credits)**

Cross-listed as OTS 380. Prerequisite: ENG 102 or 105(B) or HON 102 or departmental approval. A survey of occupational science and sociological constructs related to gendered work. Includes content on family-work linages, gendered organizations, and public policies in the workplace. Credit will not be awarded to students who have credit for OTS 380, OTS 480, or WGS 480.

**WGS 399. Gender and Society. (3 Credits)**

Cross-listed as SOC 399. Prerequisites: SOC 131 or SOC 235; ENG 102 or ENG 102R or ENG 105(B) or HON 102. Emphasis on the relationship between the social construction of gender and the experiences of people of all genders in society. Consideration of the cultural and historical construction of gender and identity. Gen. Ed. E-6 [GE]. Credit will not be awarded for both WGS 399 and SOC 399.

**WGS 400. Feminist Theory and Practice. (3 Credits)**

A. Cross-listed as SJS 400. Prerequisite: WGS 201 or SJS 101 or departmental approval. Examines intersectional development of feminist theory and its implications for continuing feminist scholarship. Includes related research project in students major. Usually offered in the fall semester. Credit will not be awarded for both WGS 400 and SJS 400.

**WGS 420. The Psychology of Women and Gender. (3 Credits)**

A. Cross listed as PSY 420. Prerequisite: PSY 240, PSY 300, and completion of all academic readiness indicators in reading; ENG 102 or 102R or ENG 105 (B) or HON 102, or departmental approval. Introduction to current and historical theories and research into the psychology of women, including gender differences and similarities. Credit will not be awarded to students who have credit for PSY 420.

**WGS 446. The Politics of Sex. (3 Credits)**

A. Cross listed as POL 446. The effect of sex on social and political institutions, public policies, and court rulings. Issues may include pornography, sexual and gender discrimination, domestic violence, reproductive rights and gay rights. Credit will not be awarded to students who have credit for POL 446. Gen. Ed. VIII.

**WGS 451. Principles and Politics of Human Rights. (3 Credits)**

A. Cross listed as POL 451. Examines politics of human rights in theory and in practice. Credit will not be awarded to students who have credit for POL 451.

**WGS 495. Independent Study: Women and Gender Studies. (1-5 Credits)**

A. Prerequisite: approval of Director of Women and Gender Studies. Study of a special topic in Women and Gender Studies. Proposal must be approved by faculty supervisor and Women and Gender Studies Director prior to enrolling. May be retaken to a maximum of ten hours.

**WGS 591. Women's Health. (3 Credits)**

A. Cross listed as HEA 591/791. Analysis of the major health problems of contemporary women with a special emphasis on health promotion, disease prevention, and consumer health concerns. Credit will not be awarded to students who have credit for HEA 591/791.

**WGS 592. Human Sexuality. (3 Credits)**

A. Cross listed as HEA 592/792. Study of the biological, social, and psychological aspects of human sexuality. Directed primarily toward those individuals in situations which require them to assist others in understanding the broad impact of one's sexuality. Emphasis is placed upon student development of logical and reasoned justifications for their own value system. Credit will not be awarded to students who have credit for HEA 592/792.

## WLD Wildlife Management (WLD)

**WLD 317. Conservation of Wildlife Resources. (3 Credits)**

(3) I, II. Prerequisites: ENG 102 or 102R or ENG 105 (B) or HON 102. Introduction to the principles and practices of conservation of plants and animals; requirements and values of wildlife resources; impact of human activities on resources. May not be used to satisfy BIO or WLD area, major, or minor requirements. Credit will not be awarded to students who have credit for ENV 317.

**WLD 380. Wildlife Law & Law Enforcement. (3 Credits)**

A. Prerequisite: ENG 102 or ENG 105 (B) or HON 102. Discussion of pertinent state and federal wildlife laws and how law enforcement impacts wildlife management. Credit will not be awarded for both WLD 380 and BIO 380.

**WLD 381. Principles of Wildlife Management. (3 Credits)**

I. Prerequisite or Corequisite: BIO 112 (grade of C or better) or departmental approval. Principles of wildlife management and their application to current management issues.

**WLD 382. Wildlife Population Analysis. (4 Credits)**

I. Prerequisites: BIO 316 (grade of C or better), STA 215 or STA 270 (grade of C or better), and Wildlife Management major; or departmental approval. Quantitative population ecology of vertebrates, with a focus on sampling and analysis of field data applicable to wildlife conservation. Credit will not be awarded for both WLD 382 and WLD 382W. 2 Lec/4 Lab.

**WLD 489W. Wildlife Research and Writing. (3 Credits)**

I, II. Prerequisites: WLD 382 (grade of C or better); STA 215 or 270 (grade of C or better); junior or senior status; ENG 102 or ENG 105(B) or HON 102; and Wildlife Management major. Students will design and execute a research project or management plan. Emphasis placed on (a) writing a project proposal and (b) writing a final report. Credit will not be awarded to students who have credit for WLD 489.

**WLD 583. Game Species Management. (3 Credits)**

A. Prerequisite or corequisite: WLD 381 (C or better) or departmental approval. Biology and ecology of the major game species found in North America with emphasis on current management practices and problems. Credit will not be awarded to students who have credit for BIO 599/799 Special Topics: Game Species Management.

**WLD 584. Upland Wildlife Management. (4 Credits)**

A. Prerequisite: WLD 381 (with grade of C or better) or departmental approval. Ecological principles and management strategies to preserve and enhance forest and grassland wildlife and their habitats. 2 Lec/2 Lab.

**WLD 585. Wildlife Resource Policy and Administration. (3 Credits)**

II. Prerequisite: WLD 381 (grade of C or better) or Departmental approval. Discussion of state, regional, national, and international policies and agencies which impact management of wildlife resources; with emphasis on North America.

**WLD 586. Wetland Wildlife Management. (4 Credits)**

II. Prerequisites: BIO 316 (grade of C or better) and WLD 381 (grade of C or better) or Departmental approval. Ecology and management of migratory and resident wetland wildlife populations and their habitats, with a focus on waterfowl. 2 Lec/4 Lab.

**WLD 587. Urban Wildlife Management. (3 Credits)**

A. Formerly BIO 587. Prerequisites or Corequisites: BIO 316 (with grade of C or better) and WLD 381 (with grade of C or better); or departmental approval. The strategies employed to manage urban wildlife and prevent/control animal damage in North America will be discussed. Credit will not be awarded to students who have credit for BIO 587.

**WLD 588. Fire Ecology and Management. (1 Credit)**

(1) I. Prerequisite: ENG 101 or departmental approval. Course addressing fire behavior and skills related to fire prescription, wildfire suppression, and the role of fire in wildlife management. 2Lec/lab.

**WLD 599. Topics in Wildlife Management. (1-6 Credits)**

A. Prerequisites: Sr. Standing; BIO 316 (C or better), WLD 381 (C or better) and departmental approval. Special topics in wildlife management of current interest to faculty and students will be presented through lecture, discussion, and reports. May be retaken to a maximum of 6 hours, provided the subject matter differs each time.

**WLD 783. Game Species Management. (3 Credits)**

A. Biology and ecology of the major game species found in North America with emphasis on current management practices and problems. Credit will not be awarded to students who have credit for BIO 599/799 Special Topics: Game Species Management.

**WLD 784. Upland Wildlife Management. (4 Credits)**

A. Ecological principles and management strategies to preserve and enhance forest and grassland wildlife and their habitats. 2 Lec/2Lab. Credit will not be awarded to students who have credit for BIO 784.

**WLD 785. Wildlife Resource Policy & Adm. (3 Credits)**

II. Prerequisite: departmental approval. Discussion of state, regional, national, and international policies and agencies which impact management of wildlife resources; with emphasis in North America.

**WLD 786. Wetland Wildlife Management. (4 Credits)**

II. Ecology and management of migratory and resident wetland wildlife populations and their habitats, with a focus on waterfowl. 2 Lec/4Lab. Credit will not be awarded to students who have credit for BIO 786.

**WLD 787. Urban Wildlife Management. (3 Credits)**

A. The strategies employed to manage urban wildlife and prevent/control animal damage in North America will be discussed. North America will be discussed. Credit will not be awarded to students who have credit for BIO 787.

**WLD 788. Fire Ecology and Management. (1 Credit)**

(1) I. Course addressing fire behavior and skills related to fire prescription, wildfire suppression, and the role of fire in wildlife management. 2Lec/lab.

**WLD 799. Topics in Wildlife Mgmt:\_\_\_\_\_. (1-6 Credits)**

A. Special topics in wildlife management of current interest to faculty and students will be presented through lecture, discussion, and reports. May be retaken to a maximum of 6 hours, provided the subject matter differs each time.

# SEARCH COURSES

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## Welcome to Class Search

Use the search panel on the left to find and narrow down classes of interest.

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# FACULTY LISTING

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**Abdelhay, Karim**, (2018), Assistant Professor, Chemistry; PhD, Auburn University; M Pharm, B Pharm, Alexandria University

**Abney, Marjorie**, (2015), Executive-in-Residence, Evans Banking Program; Senior Lecturer, Finance MBA, Eastern Kentucky University; BBA, University of Kentucky

**Acampa, Steven**, (2018), Lecturer, Mathematics & Statistics; MS, BS, Eastern Kentucky University

**Adams-Blair, Heather**, (2000), Professor, Exercise & Sport Science; EdD, University of Kentucky; MA, Eastern Kentucky University; BA, Transylvania University

**Adams-Johnson, Melanie**, (2010), Associate Professor, School of Nursing; DNP, MSN, BSN, Eastern Kentucky University

**Afsah-Mohallatee, David**, (2002), Foundation Professor, Art & Design; MFA, Temple University; BFA, Kutztown University

**Alam, Tahia**, (2022), Visiting Assistant Professor, Management; PhD, University of Illinois Carbondale; MBA, BBA, University of Louisiana Lafayette

**Alexander, Shawne**, (2008), Senior Lecturer, English & Theatre; MAT, MA, Eastern Kentucky University; BA, Berea College

**Allison, Lee**, (2016), Associate Professor, Marketing; Executive Director, Berman Center for Professional Sales; PhD, Oklahoma State University; MBA, BBA, University of Texas

**Al-Shabbani, Zamaan**, (2020), Assistant Professor, Applied Engineering & Technology; PhD, MS, University of Kentucky; BSc University of Technology

**Altheide, Steven Travis**, (2015), Assistant Professor, Medical Laboratory Science; PhD, University of Arkansas; BS, Eastern Kentucky University; BS, Missouri Southern State University

**Althaus, Krista** (2007), Professor, Teaching, Learning and Educational Leadership. BA, MAEd, EdD, Eastern Kentucky

**Anyanwu, Ogechi**, (2011), Professor, History, Philosophy, & Religious Studies; PhD, Bowling Green State University; MSC, BA, Imo State University

**Arnold, Melba J.** (2017), Assistant Professor, Occupational Therapy. BS, University of Louisiana; MS, Boston University; PhD, Saint Louis University

**Arneson, Jens**, (2013), Assistant University Librarian; Libraries; MSLS, University of Kentucky; BA, University of Southern Indiana

**Ashby, Dominic**, (2014), Associate Professor, English & Theatre; PhD, Miami University; MA, West Virginia University; BA, West Virginia Wesleyan College

**Austin, Michael**, (2004), Professor, History, Philosophy, & Religious Studies; PhD, University of Colorado at Boulder; MA, Biola University; BA, Kansas State University

**Awang, Faridah**, (2002), Professor, General Business; PhD, MS, BS, Southern Illinois University

**Baggett, Ryan**, (2011), Professor, Safety & Security; EdD, MS, Eastern Kentucky University; BS, Murray State University

**Bai, Rendong**, (2018), Associate Professor, Applied Engineering & Technology; PhD, University of Kentucky; MS, BS, Beijing University of Aeronautics and Astronautics

**Ballard, Michael**, (2002), Professor, Health Promotion & Administration; EdD, University of Tennessee; MAEd, BS, Eastern Kentucky University

**Baltisberger, Julie** (2005), Assistant Professor, Occupational Therapy, OTR/L. BA, University of California at Berkeley; MS, Eastern Kentucky

**Bane, Maria**, (2021), Assistant Professor, Clinical Therapeutic Programs; PhD, MS, BA, University of Kentucky

**Barracca, Steven**, (2005), Professor, Government; PhD, University of Texas at Austin; MA University of Miami; BS, State University of New York

**Barthel, Laura**, (2012), Assistant Professor, Accounting; PhD, Kennesaw State University; MS, University of Kentucky; BS, Eastern Kentucky University

**Bedetti, Gabriella**, (1981), Professor, English & Theatre; PhD, MA, University of Iowa; BA, Bates College

**Beirne, Heather**, (2011), Associate University Librarian, Libraries; MSLS, University of Kentucky; BA, Transylvania University

**Bentley, Brooke**, (2001), Professor, School of Nursing; PhD, University of Kentucky; MSN, BSN, Eastern Kentucky University

**Bhandari, Michelyn**, (2004), Professor, Health Promotion & Administration; DrPH, University of Kentucky; MPH, BS, Western Kentucky University

**Bishop-Ross, Rachel**, (2013), Associate Professor, Mathematics & Statistics; PhD, MA, BS, University of Alabama

**Black-Davis, Pamela**, (2000), Associate Professor, Social Work; MSW, University of Kentucky; BS, Eastern Kentucky University

**Blackburn, Teena**, (2016), Lecturer, History, Philosophy, & Religious Studies; MA, Franciscan University of Steubenville; BA, Morehead State University; BA, Pikeville College

**Blair, James**, (2018), Assistant Professor, Marketing; PhD, The University of Rhode Island; MBA, University of Dayton; BA, BA, Ohio University

**Blakely, April**, (2010), Associate Professor, Teaching, Learning and Educational Leadership; EdD, MAT, BS, East Tennessee State University

**Blakeman, Jennifer**, (2016), Instructor, Model Laboratory School; MA, Eastern Kentucky University; BS, University of Kentucky

**Blank, Kenneth**, (2011), Senior Lecturer, Biological Sciences; PhD, MS, University of Kentucky; BS, Eastern Kentucky University

**Blaylock, David**, (1993), Associate Professor, History, Philosophy, & Religious Studies; PhD, Ohio State University; MA, Washington University in St. Louis; BA, University of North Carolina at Greensboro

**Blevins, Kristie R.**, (2011), Professor, Justice Studies; PhD, University of Cincinnati; MA, BS, East Tennessee State University

**Blose, Anthony**, (2013), Professor, Physics & Astronomy; PhD, MS, University of North Carolina at Chapel Hill; BS, Manhattan College

**Blyth, Harold** (1972), Professor of English and Foundation Professor. BA, Kentucky Southern; MA, Florida; PhD, Louisville

**Borowski, Walter**, (2001), Professor, Geosciences; PhD, University of North Carolina at Chapel Hill; MS, University of Tennessee; BA, Case Western Reserve University

**Bosley, Lisa**, (2004), Professor, English & Theatre; EdD, University of Kentucky; MA, University of Chicago; BA, Centre College

**Botts, Theresa**, (1989), Associate Professor, Psychology; PhD, University of Kentucky; MS, BS, Eastern Kentucky University

**Bowes, John**, (2006), Professor, History, Philosophy, & Religious Studies; PhD, MA, University of California, Los Angeles; BA, Yale University

**Bozeman, Linda**, (2001), ASL Specialist, American Sign Language & Interpreter Education; BSW, Eastern Kentucky University

**Braccia, Amy**, (2010), Associate Professor, Biological Sciences; PhD; MS, University of Georgia, BS, Virginia Tech

**Brock, Martin L.** (1990), Associate Professor, Chemistry. BA, California (San Diego); PhD, Illinois; Post doctoral research, Imperial (London), Southern CA

**Bradshaw-Adrian, Molly**, (2017), Associate Professor, School of Nursing; DNP, Rutgers School of Nursing; MSN, University of Kentucky; BSN, ASN, Eastern Kentucky University

**Bragg, Cindy**, (2016), Lecturer, Computer Science; MS, Boston University; BS, University of Kentucky

**Brashear, Vicki**, (2000), Assistant Professor, American Sign Language & Interpreter Education; MA, Indiana University; BS, Eastern Kentucky University

**Brent, John**, (2017), Associate Professor, Justice Studies; PhD, University of Delaware; MA, Eastern Kentucky University; BA, Northern Kentucky University

**Brisman, Avi**, (2012), Professor, Justice Studies; PhD, MA, Emory University; JD, University of Connecticut School of Law; MFA, Pratt Institute; BA, Oberlin College

**Brocato, Jennifer**, (2011), Senior Clinical Faculty, School of Nursing; MSN, BSN, ADN, Eastern Kentucky University

**Brown, Brittany**, (2021) Assistant Professor, Fire Protection & Paramedicine Sciences; MS, BS Embry-Riddell

**Brown, David**, (2008), Professor, Biological Sciences; PhD, Tulane University; MS, Southeastern Louisiana University; BA, University of Colorado

**Brown, Donald Gary**, (2001), Foundation Professor, Environmental Health Science; DrPH, University of Alabama at Birmingham; MS, Hunter College; BA, State University of New York at Buffalo

**Bryden, Phyllis**, (2007), Professor, Health Promotion & Administration; DrPH, MSPH, BS, AAS, University of Kentucky

**Buck, Alison**, (2018), Assistant Professor, Language & Cultural Studies, Anthropology, and Sociology; PhD, MS, North Carolina State University; BA, Guilford College

**Budano, Christopher**, (2018), Assistant Professor, Model Laboratory School; PhD, University of Maryland; MS, University of Pennsylvania; BS, The University of Scranton

**Bundy, Myra**, (1996), Professor, Psychology; PhD, University of South Carolina; BA, Transylvania University

**Burns, Stella Ann**, (2014), Associate Professor, Teaching, Learning and Educational Leadership; EdD, MA, BS, Eastern Kentucky University

**Burus, Justin**, (2015), Lecturer, Mathematics & Statistics; MDiv, Southern Baptist Theological Seminary; MM, BS, University of Kentucky

**Bush, Dana**, (1998), Professor, Applied Human Sciences; PhD, MS, University of Kentucky; BS, Eastern Kentucky University

**Buskirk, Robert D.**, (1992), Assistant Professor, Mathematics & Statistics; PhD, MA, University of Kentucky; BA, West Virginia University

**Bussan, Derek**, (2019), Assistant Professor, Chemistry; PhD, University of Mississippi; MS, Oklahoma State University; BA, University of Iowa

**Butler, Thomas**, (2006), Professor, English & Theatre; PhD, MA, University of Notre Dame; MA, University College Dublin; MA, Katholieke Universiteit Leuven; BA, Loyola College Maryland

**Byrd, Richard**, (2007), Professor, Music; PhD, MM, University of Kentucky; BM, DePauw University

**Byrd, Suzanne**, (1991), Associate Professor, Biological Sciences; PhD, BS, University of South Alabama; BS, Austin Peay State University

**Cabaniss, Haley**, (2020), Assistant Professor, Geosciences; PhD, University Illinois at Urbana-Champaign; BS, College of Charleston

**Calderon, Lindsay**, (2013), Associate Professor, Biological Sciences; PhD, BS, University of Kentucky

**Caldwell, Kelly**, (2016), Instructor, Model Laboratory School; MAEd, Western Kentucky University; BA, Morehead State University

**Calie, Patrick J.**, (1992), Professor, Biological Sciences; PhD, MS, University of Tennessee; BA, Rutgers University

**Callahan, Ann**, (2017), Professor, Social Work; PhD, MS, BA, University of Tennessee

**Callahan, Connie** (1997), Professor, Counseling & Educational Psychology. BA, Missouri Southern State; MS, EDS, Pittsburgh State; PhD, New Mexico.

**Campbell, Glenn**, (2006), Senior Lecturer, Geosciences; MA, Marshall University; MPA, Eastern Kentucky University; BA, University of Kentucky

**Campbell, Jill**, (2020), Assistant Professor, Music; PhD, MM, BMME, University of Kentucky

**Carmean, Kelli**, (1993), Foundation Professor, Language & Cultural Studies, Anthropology, and Sociology; PhD, University of Pittsburgh; BA, University of Victoria, British Columbia

**Carpenter, Russell**, (2009), Professor, English & Theatre; PhD, MA, BA, University of Central Florida

**Carrico, Cheryl**, (2018), Assistant Professor, Occupational Science & Occupational Therapy; MS, Eastern Kentucky University; BA, David Lipscomb University

**Casey-Upton, Kristen**, (2013), Associate Professor, Occupational Science & Occupational Therapy; OTD, Chatham University; MS, BS, Eastern Kentucky University

**Caviness, Tyler**, (2009), Senior Lecturer, Professional Golf Management; MBA, Eastern Kentucky University; BS, Methodist University

**Champlin, Shelby**, (2020), ASL Specialist, American Sign Language & Interpreter Education; BS, Eastern Kentucky University

**Chandra, Vigyan**, (2002), Professor, Applied Engineering & Technology; PhD, MS, MS, University of Kentucky; MS, Eastern Kentucky University; BS, Birla Institute of Technology

**Chang, Kuang-Nan**, (2002), Professor, Computer Science; PhD, MS, MS, University of Texas, Arlington; BS, Feng-Chia University

**Chatelain, Amber**, (2015), Assistant Professor, Applied Human Sciences; EdD, Argosy University MA, BS, University of Kentucky

**Chen, Michael**, (2016), Associate Professor, Psychology; PhD, MS, University of Kentucky; BA, Berea College

**Christensen, Burke A.** (2006), Lecturer, Management. BS, Utah State University; JD, University of Utah, CLU

**Christopher, Karina**, (2012), Associate Professor, Applied Human Sciences; PhD, University of Kentucky; MS, Eastern Kentucky University; BS, Northwest Missouri State University

**Ciocca, Marco**, (1999), Professor, Physics & Astronomy; PhD, Washington University; MS, BS, University of Naples

**Cirgin, Benjamin**, (2018), Assistant Professor, Art & Design, MFA, California College of the Arts; BFA, Indiana University

**Cizmar, Anne**, (2011), Professor, Government; PhD, University of Maryland; MA, BA, University of Akron

**Clark, Brian**, (2015), Associate Professor, Recreation & Park Administration; MS, BS, Eastern Kentucky University

**Clarke, Laura** (2013), Associate Professor, Special Education. BA, MEd, Northern Kentucky; PhD, Cincinnati

**Cleveland, Roger**, Associate Professor, Teaching, Learning, and Educational Leadership

**Clift, Shawn**, (2010), Lecturer, Mathematics & Statistics; PhD, University of Kentucky; MS, BS, Eastern Kentucky University

**Combs, Clay**, (2022) Lecturer, Safety & Security; MS, Eastern Kentucky University, BS University of Kentucky

**Coen, Patrick**, (2006), Senior Lecturer, Mathematics & Statistics; MS, BA, West Virginia University

**Coffey, David**, (2015), Assistant Faculty, School of Nursing; DNP Eastern Kentucky University, MSN, BSN, BA, BA, University of Kentucky; ADN, Somerset Community College

**Cogdill, Chad**, (2007), Associate Professor, Communication; MFA, Savannah College of Art & Design; BS, Missouri Western State University

**Cole, Ashley**, (2012), Associate University Librarian, Libraries; MLIS, University of Kentucky; BA, Eastern Kentucky University

**Coleman, David**, (1998), Professor, History, Philosophy, & Religious Studies; PhD, AM, University of Illinois at Urbana-Champaign; BA, Emory University

**Collins, Victoria**, (2013), Professor, Justice Studies; PhD, MA, BS, Old Dominion University; LLB, Open University

**Conkwright II, Jeffrey P.**, (2020), Assistant Professor, Fire Protection & Paramedicine Sciences; ME, University of Alabama at Birmingham; BS, Eastern Kentucky University

**Cormier, Joel**, (2012), Associate Professor, Exercise & Sport Science; PhD, University of New Mexico; MA, Central Michigan University; BPE, University of New Brunswick

**Cornelison, Jill M.** (2013), Associate Professor, School of Nursing. BSN, MSN, Kentucky; DNP, Eastern Kentucky

**Cornette, Mark**, (1998), Assistant Professor, Model Laboratory School; MA, BS, Eastern Kentucky University

**Cortes-Castaneda, Manuel**, (1992), Professor, Language & Cultural Studies, Anthropology, and Sociology; MA, Universidad Complutense de Madrid; BA, Universidad Nacional Pedagógica

**Costello, Patricia S.** (1982), Professor, Statistics. BA, Thomas More; MS, PhD, Ohio State.

**Costello, Patrick J.** (1982), Professor, Mathematical Sciences. BS, Harvey Mudd; MS, PhD, Ohio State.

**Couture, Jackie**, (2014), Assistant University Librarian; Libraries; MSLS, University of Kentucky; BS, Eastern Kentucky University

**Couvillon, Thomas**, (2006), Professor, Music; PhD, MM, Louisiana State University; BM, Loyola University

**Cropper, Matthew**, (2000), Professor, Mathematics & Statistics; PhD, MS, West Virginia University; BS, Northern Kentucky University

**Crosby, Richard**, (1986), Foundation Professor, Music; DMA, MM, BM, University of Cincinnati

**Crowley, Gordon**, (2007), Senior Lecturer, Accounting; MBA, BBA, Eastern Kentucky University

**Darville, Sila**, (2020), Assistant Professor, Music; DMA, Texas Tech University; MM, University of Minnesota; BM, Mimar Sinan Fine Arts University State Conservatory

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- Richardson, Ray E.**, (2002), Professor, Applied Engineering & Technology; PhD, University of Illinois; MS, BS, Eastern Illinois University
- Richardson, Sarah**, (2012), Associate University Librarian; Libraries; MLIS, University of Kentucky; BS, Radford University
- Richter, Stephen**, (2005), Professor, Biological Sciences; PhD, University of Oklahoma; MS, Southeastern Louisiana University; BS, Berry College
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- Roberson, Michael T.**, (1987), Professor, Management, Marketing, & International Business; PhD, MS, University of Tennessee; BS, Auburn University
- Robinson, Jade**, (2017), Associate Professor, Clinical Therapeutic Programs; PhD, Florida State University; M Ed, BS Ed, Valdosta State University
- Robles, Marcel**, (2002), Professor, General Business; PhD, MS, BBA, University of North Dakota
- Root, Carl**, (2014), Senior Lecturer, Justice Studies; PhD, University of South Florida; MS, BA, BA, BA, Eastern Kentucky University
- Rose, Sharonda**, (2017), Clinical Faculty, School of Nursing; MSN, BSN, ASN, Eastern Kentucky University
- Ross, James**, (2017), Clinical Faculty, Physics & Astronomy; PhD, BS, University of Alabama; AS, Bevill State Community College
- Ross, Larry Tim**, (1998), Professor, Applied Engineering & Technology; EdD, University of Kentucky; MS, Indiana State University; BS, Western Kentucky University
- Ross, Linda** (2014), Assistant Professor, American Sign Language and Interpreter Education. BA, Youngstown State; MS, PhD, Ohio State.
- Roush, Daniel**, (2006), Professor, American Sign Language & Interpreter Education; PhD, MA Gallaudet University; BA, Moody Bible Institute
- Rutland, Julie**, (2018), Associate Professor, Teaching, Learning, and Educational Leadership; PhD, MS, BA, University of Kentucky
- Sabin, Matthew**, (2011), Professor, Exercise & Sport Science; PhD, MS, University of Illinois at Urbana-Champaign; BA, Anderson University
- Sandman, Gregory**, (2022), Assistant Professor, Clinical Therapeutic Programs, PhD, University of Wyoming; MEd, University of Nebraska at Kearney; BA, University of Nebraska - Lincoln.
- Sands, Fontaine**, (2012), Professor, School of Nursing; DrPH, MSN, University of Kentucky; BSN, ADN, Eastern Kentucky University
- Saulnier, Stephanie Adams**, (2016), Assistant Professor, Social Work; MSW, University of Kentucky; BA, Auburn University
- Scarambone, Bernardo**, (2010), Professor; Music; DMA, University of Houston; MM, Indiana University; BM, Federal University of Rio de Janeiro
- Schept, Judah**, (2011), Professor, Justice Studies; PhD, Indiana University; BA, Vassar College
- Schilling, Amy**, (2011), Assistant Professor, American Sign Language & Interpreter Education; MA, Gallaudet University; BA, Eastern Kentucky University
- Schneid, Thomas**, (1989), Professor, Safety & Security; LLM, University of San Diego; JD, MS, West Virginia University; BA, West Liberty State College
- Schwartz, Laurel Mills**, (2012), Associate Professor, Health Promotion & Administration; DrPH, University of Kentucky; MPH, University of Southern Mississippi; BS, Louisiana Tech University
- Sciaraffa, Mary**, (2016), Associate Professor, Applied Human Sciences; PhD, Louisiana State University; MS, BA, Texas Tech University
- Sciascia, Aaron** (2016), Associate Professor, Exercise and Sport Science. BS, Delaware; MS, PhD, Kentucky
- Seale, Kimberly**, (2018), Instructor, Model Laboratory School; BA, Eastern Kentucky University
- Sehmann, Phillip M.**, (1994), Professor, Music; DMA, MFA, University of Iowa; MM, University of Akron; BMed, University of Northern Iowa
- Self, Scott**, (2015), Instructor, Model Laboratory School; MAT, University of the Cumberlands; BS, Union College
- Settimi, John R.**, (2010), Professor, Agriculture; PhD, Louisiana State University; MS, University of Wisconsin BS, Colorado State University
- Sexten, Andrea**, (2015), Associate Professor, Agriculture; PhD, Oklahoma State University; MS, BS, BS, University of Kentucky
- Sgro, Sergio** (2006), Associate Professor, Applied Engineering and Technology. BS, Millersville University; MS, PhD, Iowa State
- Shackelford, Stephen**, (2021), Visiting Lecturer, Computer Information Systems; MBA, Eastern Kentucky University; BBA, Berea College
- Shannon, Brent**, (2011), Associate Professor, English & Theatre; PhD, University of Kentucky; MA, University of Cincinnati; BA, Indiana University
- Shaw, Randy**, (2019), Lecturer, Safety & Security; MS, Marshall University; BS, Eastern Kentucky University
- Shepperson, Tara** (2009), Associate Professor, Educational Leadership and Policy Studies. BA, Santa Clara; MA, University of Nevada Las Vegas; PhD, University of Nevada Reno.
- Shi, Buchang**, (2008), Professor, Chemistry; PhD, University of Kentucky; BS, MS, Shandong Medical University
- Shumaker, Shannon** (2016), Assistant Professor, School of Nursing. BSN, Eastern Kentucky; MSN, PhD, Kentucky

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- Watson, Kelly**, (2011), Associate Professor, Geosciences; PhD, Florida State University; MS, Lund University; BA, Hawaii Pacific University
- Weise, Robert**, (1999), Professor, History, Philosophy, & Religious Studies; PhD, University of Virginia; BA, University of Wisconsin
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- Wells, James**, (1995), Professor, Justice Studies; PhD, MS, AA, Georgia State University; BS, Ohio State University
- West, Cody**, (2019), Clinical Faculty, Occupational Science & Occupational Therapy; MS, BS, Eastern Kentucky University
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- Whaley, Kristin**, (2017), Lecturer, Mathematics & Statistics; MS, BS, Eastern Kentucky University
- White, Alexander**, (2016), Model Laboratory School; BS, Eastern Kentucky University
- White, John**, (2003), Professor, Geosciences; PhD, Baylor University; MS, BA, Sul Ross State University
- Whitehouse, Ginny**, (2011), Professor, Communication; PhD, MA, University of Missouri; BA, Samford University
- Wiggins, Timothy**, (2016), Associate Professor, Music; PhD, Florida State University; MM, University of Memphis; BM, Arizona State University
- Wigginton, Andrew**, (2013), Senior Lecturer, Biological Sciences; PhD, University of Kentucky; BS, University of Florida
- Willett, James**, (1991), Assistant Professor, Music; MM, University of Akron; BM, University of Iowa
- Williams, Amanda**, (2012), Assistant Professor, Model Laboratory School; MAEd, MS, Eastern Kentucky University; BS, Western Kentucky University
- Williams, Shannon**, (2016), Lecturer, Justice Studies; PhD, MA, University of Tennessee; BA, Eastern Kentucky University
- Williamson, John**, (2018), Assistant Professor, Model Laboratory School; EdM, Columbia University; MA, Morehead State University; BA, Eastern Kentucky University
- Wilson, James**, (2020), Assistant Professor, Applied Engineering & Technology; MS, Florida Institute of Technology; MEd, University of Mary Washington; BS, Eastern Kentucky University
- Wilson, Kristen**, (2011), Associate Professor, General Business; PhD, Louisiana Tech University; MBA, Eastern Kentucky University; BBA, University of Kentucky
- Wilson, Mary**, (2002), Associate Professor, Applied Human Sciences; PhD, Michigan State University; BS, University of Kentucky
- Wilson, Steffen**, (1997), Professor, Psychology; PhD, MS, University of Georgia; BS, Birmingham-Southern College
- Wilson-Yue, Hillary**, (2020), Assistant Professor, Fire Protection & Paramedicine Sciences; MS, BS, BA, Eastern Kentucky University
- Winslow, Matthew**, (1998), Professor, Psychology; PhD, University of Minnesota; MA, University of California; BA, Macalester College
- Wolf, Joyce**, (1995), Professor, Music; DMA, University of Kentucky; MM, BM, West Virginia University
- Wong, Ka-Wing**, (1990), Professor, Computer Science; PhD, Kansas State University; MS, BS, Middle Tennessee University
- Wood, Angela**, (2014), Clinical Faculty, School of Nursing; DNP, MSN, Eastern Kentucky University; BSN, ASN, Midway College
- Wood, Bradford**, (2000), Professor, History, Philosophy, & Religious Studies; PhD, MA, John Hopkins University; MA, Michigan State University; BA, Wake Forest University
- Woodruff, Benjamin**, (2014), Assistant Professor, Finance; PhD, MS, MBA, The University of Alabama; BS, Excelsior College
- Woods, Patricia**, (1989), Associate Professor, School of Nursing; MSN, University of Kentucky; BSN, Eastern Kentucky University
- Woolery, Ellen**, (2016), Instructor, Model Laboratory School; MA, BS, Eastern Kentucky University
- Wright, Cheryl**, (2002), Assistant Professor, Model Laboratory School; MS, University of Kentucky; BS, University of Pennsylvania
- Wyatt, Melissa**, (2018), Assistant Professor; Medical Laboratory Sciences; MS, University of Tennessee; BA, Berea College; BS, Eastern Kentucky University
- Wygant, Dustin**, (2009), Professor, Psychology; PhD, MA, Kent State University; BA, Miami University
- Xiao, Qian**, (2012), Professor, Management; PhD, University of Alabama; MS, BS, Southwest Jiao Tong University
- Xu, Bangteng**, (2005), Professor, Mathematics & Statistics; PhD, MS, Northern Illinois University; MS, Wuhan University
- Yang, Mengkun**, (2006), Associate Professor, Computer Science; PhD, University of Kentucky; ME, BE, Sichuan University
- Yaylali, Ali**, (2022), Assistant Professor, Teaching, Learning, and Educational Leadership; PhD, University of Arizona; MA, Northern Arizona University; BA, Bogazici University
- Yazdani, Mina**, (2011), Professor, History, Philosophy, & Religious Studies; PhD, University of Toronto; MA, Wilfred Laurier University; MA, Landegg International University; BGS, Indiana University
- Yi, Kwan**, (2011), Professor, Teaching, Learning, and Educational Leadership; PhD, MS, McGill University; MS, University of Illinois at Urbana-Champaign; BA, BS, Korea University
- Yoder, Garrett**, (1998), Professor, Physics & Astronomy; PhD, MS, Auburn University; BA, Goshen College
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