



Agribusiness Management Concentration (Agriculture B.S. Degree)

Agriculture at EKU

The agribusiness Management curriculum provides career training to prepare you for a rewarding and successful career in Agriculture. A wide array of jobs are available in private and commercial business, agriculture sales and finance, credit, government agencies and career and technical instruction. Our program stresses the latest technical information in the classroom with hands-on application through laboratories. Hands-on training is reinforced through practicums at the university farms and through cooperative education. Our small class size promotes interaction between students and faculty. We are small enough to care for you as an individual but large enough to provide every career opportunity.

Career Opportunities

The practical instruction and hands-on application enable you to be an immediate asset to employers. you will join the ranks of successful EKU graduates employed in the financial sector, food production industry, wholesale and retail operations, agriculture sales, farm management, agriculture finance and banking, career and technical agriculture instruction, extension, government agencies, and pursuing advanced degrees. The United States Department of Agriculture predicts a shortfall of graduates in these areas. Suggested specialty areas for the Agribusiness Management Option include: Corporate Communication, Financial Literacy, Marketing and Research Analytics, and Sales. Job Opportunities range from Agribusiness Service Manager to Farm Credit Agencies.

- **Agribusiness Service Manager** - Manages Retail business involving sales of agricultural supplies; has responsibilities for all aspects of the business management.
- **Agribusiness Service Sales** - Sells to retail customers, keeps records of inventory, purchases, sells and demonstrates merchandise to potential customers.
- **Bank and/or Loan Officer** - Consults with loan applicants concerning their needs and ability to meet financial repayment schedules; evaluates and makes decisions about agricultural loan applications.
- **Farm Manager** - Responsible for all decision-making related to the crop, animal, equipment and labor needs of the farm; keeps records and evaluates farm financial progress.
- **Farm Credit Agencies** - Helps farmers assess their needs and repayment Abilities for agricultural production enterprises.

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the university enterprises and through cooperative education are further utilized to reinforce the practical application of scientific theory. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed with the ever-changing technology and environment.

Department Facilities & Student Organizations

The Agriculture Program at EKU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building, including a modern computer laboratory, ag mechanics shop, animal and plant science biotechnology laboratories equipped for research and cell cloning are also available. There are also garden displays, turf plots, and 5 greenhouses. Students will have the unique opportunity to work directly with and observe practical applications of agricultural technology at EKU's 1,100-acre Meadowbrook Farm located only eight miles from campus with an on-site classroom. The farm gives students an opportunity to experience all aspects of modern production in beef, dairy, sheep, swine, and crop enterprises. Students have the opportunity to develop their extracurricular leadership skills through the Agriculture/Collegiate Farm Bureau Club, Block & Bridle Club, Delta Tau Alpha Agriculture Honor Society, Horticulture Club, Pre-Vet Club, and Sigma Alpha Sorority.

For More Information

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Department of Agriculture
College of Science, Technology, Engineering, and Math (2026-27)

Suggested Curriculum Guide for Agribusiness Management Concentration

Freshman (1st semester) 15 hrs

GSD 101	Foundations of Learning	3
AGR 115	Operation of Agricultural Equipment	3
AGR 213	Principles of Ag Mechanics and Energy Sys	3
^E ECO 120	Economic Reasoning and Issues	3
Element 1A (ENG 101)		3

Sophomore (1st semester) 14 hrs

ACC 200	Survey of Accounting	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	3
INF 104	Computer Lit and Software Appl -OR-	3
TEC 161	Computer Applications in Technology	3
Element 1C (Oral Communications)		3

Junior (1st semester) 15 hrs

AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 310	Principles of Agribusiness Management	3
AGR 340	Conservation of Agricultural Resources	3
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	3
Program Elective		3

Senior (1st semester) 16 hrs

AGR 409	Agricultural Business Records and Analysis	3
AGR 411	Senior Seminar	1
AGR 440	Agricultural Financing	3
AGR/OHO Upper Division Elective		3
Program Elective		3
Free Elective		3

Freshman (2nd semester) 14 hrs

AGR 130	Plant Science	3
AGR 131	Plant Science Laboratory	1
^E BIO 111/111L	Cell and Molecular Biology -OR-	4
^E BIO 112/112L	Ecology and Evolution	3
Element 1B (ENG 102)		3
Element 3A (Arts)		3

Sophomore (2nd semester) 16 hrs

AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
AGR 308	Agricultural Economics	3
^E STA 215	Introduction to Statistical Reasoning	3
Element 3B (Humanities)		3
Element 4A (Historical and Global Perspective)		3

Junior (2nd semester) 14 hrs

AGR 319	Renewable & Sustainable Energy Sys	3
AGR 350	Agriculture Marketing	3
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	3
^E CHE 101	Introduction to Chemistry	3
CHE 101L	Introduction to Chemistry Lab	1
Program Elective		3

Senior (2nd semester) 16 hrs

AGR 520	Global Food Systems	3
AGR 499	Ag Advocacy and Issues Capstone -OR-	3
AGR 509	Ag Research Methods and Interpretation	3
AGR/OHO Upper Division Elective		3
Program Elective		0-3
Free Elective		4-7

^E Denotes that 3 credit hours from the course are/can be applied to fulfill Essential Education Requirements.

UNIVERSITY GRADUATION REQUIREMENTS.....33 hours

- Essential Education..... 30 hours
- Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)..... 3 hours
- Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

MAJOR REQUIREMENTS

Core Courses.....47 hours

AGR 125, AGR 130 and 131(1), AGR 115, AGR 213, AGR 215, AGR 216(1), Plus three credit hours: AGR 301 or AGR 349, AGR 304(4), AGR 305(1), AGR 308, AGR 310, AGR 319, AGR 340, AGR 411(1), AGR 499 or AGR 509, AGR 520, INF 104 or TEC 161.

Agribusiness Management Concentration Requirements25-28 hours

AGR 126(1), AGR 350, AGR 409, AGR 440, Plus six hours selected from upper division AGR and/or OHO courses, Plus one of the following programs:

Advisor Approved Personalized Program..... 9 hours

Certificate in Corporate Communications..... 9 hours

CCT 310, CCT 520; Plus one course from: BUS 207, BUS 300, BUS 301.

Certificate in Financial Literacy..... 9 hours

ACC 200, FIN 201, FIN 310, FIN 311.

Certificate in Marketing Research Analytics..... 12 hours

BUS 301 or BUS 305; MKT 455, MKT 456, MKT 457.

Certificate in Sales..... 12 hours

BUS 301 or BUS 305; MKT 310, MKT 408, MKT 431.

Supporting Course Requirements.....5 hours

ACC 200, ^EBIO 111/111L or ^EBIO 112/112L, ^ECHE 101/101L, ^EECO 120, ^ESTA 215.

Free Electives..... 7-10 hours

Total Curriculum Requirements.....120 hours



Department of Agriculture
College of Science, Technology, Engineering, and Math (2026-27)

Agriculture Engineering Technology Concentration (Agriculture B.S. Degree)

Agriculture at EKU

The Agriculture Engineering Technology curriculum provides hands-on, rigorous career training to prepare you for a rewarding and successful career. A wide array of jobs are available to graduates in the Agriculture Engineering Technology field, bridging the gap between the engineer and the technician. In conjunction with EKU's Department of Applied Engineering Management, our program stresses the latest technical information in the classroom with hands-on application through laboratories. Hands-on-training is reinforced through practicums at the university farms and industry cooperative education. Our small class size promotes interaction between students and faculty. We are small enough to care for you as an individual but large enough to provide every career opportunity.

Career Opportunities

The practical instruction and hands-on application enable you to be an immediate asset to employers. You will join the ranks of successful EKU graduates in areas such as agriculture sales, farm management, production, product testing, quality assurance management, environmental engineering, project engineering, biomedical engineering, design technology, environmental consulting, network engineering, and pursuing advanced degrees. The United States Department of Agriculture predicts a shortfall of graduates in these areas.

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the university enterprises and through cooperative education are further utilized to reinforce the practical application of scientific theory. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed with the ever-changing technology and environment.

Department Facilities & Student Organizations

The Agriculture Program at EKU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building, including a modern computer laboratory, ag mechanics shop, animal and plant science biotechnology laboratories equipped for research and cell cloning are also available. There are also garden displays, turf plots, and 5 greenhouses. Students will have the unique opportunity to work directly with and observe practical applications of agricultural technology at EKU's 1,100-acre Meadowbrook Farm located only eight miles from campus with an on-site classroom. The farm gives students an opportunity to experience all aspects of modern production in beef, dairy, sheep, swine, and crop enterprises. Students have the opportunity to develop their extracurricular leadership skills through the Agriculture/Collegiate Farm Bureau Club, Block & Bridle Club, Delta Tau Alpha Agriculture Honor Society, Horticulture Club, Pre-Vet Club, and Sigma Alpha Sorority.

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Department of Agriculture College of Science, Technology, Engineering, and Math (2026-27)

Suggested Curriculum Guide for Agriculture Engineering Technology Concentration

Freshman (1st semester) 16 hrs

GSD 101	Foundations of Learning	3
AEM 201	Metallic Material Processes	3
AGR 130/131	Plant Science with Lab	4
AGR 115	Operation of Agricultural Equipment	3
Element 1A (ENG 101)		3

Sophomore (1st semester) 16 hrs

AEM 330	Materials Testing and Metrology	3
AGR 213	Principles of Ag Mechanics and Energy Sys	3
^E CHE 101	Introduction to Chemistry	3
CHE 101L	Introduction to Chemistry Lab	1
^E ECO 120	Economic Reasoning and Issues	3
INF 104	Computer Lit and Software Appl -OR-	3
TEC 161	Computer Applications in Technology	

Junior (1st semester) 15 hrs

AEM 308	Methods of Lean Operations	3
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 310	Principles of Agribusiness Management	3
AGR 340	Conservation of Agricultural Resources	3
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	

Senior (1st semester) 12 hrs

AEM 407	Fundamentals of Project Management	3
AEM 362	Hydraulic Systems	2
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
Element 4A (History)		3
Free Elective		3

Freshman (2nd semester) 16 hrs

AEM 195	Computer Aided Drafting	3
AGR 125	Principles of Animal Science	3
^E BIO 111/111L	Cell and Molecular Biology -OR-	4
^E BIO 112/112L	Ecology and Evolution	
Element 1B (ENG 102)		3
Element 2A (Math)		3

Sophomore (2nd semester) 16 hrs

AEM 301	Non-Metallic Material Processing	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 308	Agricultural Economics	3
STA 215	Introduction to Statistical Reasoning	3
Element 1C (Oral Communications)		3

Junior (2nd semester) 15 hrs

AEM 202	Introduction to Quality	3
AEM 352	Robotics and Automated Systems	3
AGR 319	Renewable & Sustainable Energy Sys	3
Element 3A (Arts)		3
Element 3B (Humanities)		3

Senior (2nd semester) 14 hrs

AEM 310	Technical Communication	3
AGR 411	Senior Seminar	1
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
AGR 499	Ag Advocacy and Issues Capstone -OR-	3
AGR 509	Ag Research Methods and Interpretation	
Free Elective		3
Free Elective		3

^E Denotes that 3 credit hours from the course are/can be applied to fulfill Essential Education Requirements.

UNIVERSITY GRADUATION REQUIREMENTS.....33 hours

- Essential Education 30 hours
- Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)3 hours
- Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

MAJOR REQUIREMENTS

Core Courses..... 47 hours

AGR 125, AGR 130 and 131(1), AGR 115, AGR 213, AGR 215, AGR 216(1), Plus three credit hours: AGR 301 or AGR 349, AGR 304(4), AGR 305(1), AGR 308, AGR 310, AGR 319, AGR 340, AGR 411(1), AGR 499 or AGR 509, AGR 520, INF 104 or TEC 161.

Agriculture Engineering Technology Concentration Requirements.....29 hours

AEM 195, AEM 201, AEM 202, AEM 301, AEM 308, AEM 310, AEM 330, AEM 352, AEM 407, AGR 362(2).

Supporting Course Requirements.....5 hours

^EBIO 111/111L or ^EBIO 112/112L, ^ECHE 101/101L, ^EECO 120, ^EMAT 112A/B, STA 215.

Free Electives.....6 hours

Total Curriculum Requirements

120 hours



Agronomy, Soils & Natural Resources Concentration (Agriculture B.S. Degree)

Agriculture at EKU

The Agronomy, Soils and Natural Resources curriculum provides career training to prepare you for a rewarding and successful career in Agriculture. A wide array of jobs are available in government agencies, private and commercial business, agriculture sales and finance. Our program stresses the latest technical information in the classroom with hands-on application through laboratories. Hands-on-training is reinforced through practicums at the university farms and through cooperative education. Our small class size promotes interaction between students and faculty. We are small enough to care for you as an individual but large enough to provide ever career opportunity.

Career Opportunities

The practical instruction and hands-on application enable you to be an immediate asset to employers. You will join the ranks of successful EKU graduates in areas such as agriculture sales, farm management, agriculture finance and banking, extension and 4-H agents, government agency employees, and pursuing advanced degrees. The United States Department of Agriculture predicts a shortfall of graduates in these areas. Potential entry-level job opportunities with a B.S. in Agriculture - Agronomy, Soils and Natural Resources Concentration include Agronomist, Environmental Resource Agent, and Water Quality Specialist.

- **Agronomist** - Private, State and Federal land manager of natural resources
- **Precision Agriculture Specialist** - Use and evaluation of the latest technologies in agriculture including drones and monitors
- **Soil Conservationist** - State, Federal and private land manager of natural resources
- **Environmental Resource Agent** - Monitoring and researching into water quality programs
- **Mining Reclamation Specialist** - State reclamation of abandoned mining sites
- **Laboratory Technician** - Assisting in the design and implementation of research experiments
- **Air Quality Specialist** - Monitoring and research into air quality problems
- **Extension/4-H agent** - Develop local agriculture and youth programs
- **Environmental Educator** - Teaching natural history in the field and classroom as a naturalist
- **Soil Scientist** - State, Federal and private land manager of natural resources

Philosophy

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Department Facilities & Student Organizations

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Department of Agriculture
College of Science, Technology, Engineering, and Math (2026-27)

Suggested Curriculum Guide for Agronomy, Soils & Natural Resources Concentration

Freshman (1st semester) 15 hrs

GSD 101	Foundations of Learning	3
AGR 115	Operation of Agricultural Equipment	3
AGR 213	Principles of Ag Mechanics and Energy Sys	3
Element 1A (ENG 101)		3
Element 2A (Math)		3

Sophomore (1st semester) 16 hrs

AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 340	Conservation of Agricultural Resources	3
^E ECO 120	Economic Reasoning and Issues	3
Element 1C (Oral Communication)		3
Element 3A (Arts)		3

Junior (1st semester) 15 hrs

AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 310	Principles of Agribusiness Management	3
AGR 312	Ecology & Mgmt Forages/Grassland	4
AGR 430	Row and Biomass Crops	3

Senior (1st semester) 15 hrs

AGR 411	Senior Seminar	1
AGR 416	Soil Fertility and Management	3
AGR 570	Advanced Ag Technologies	3
AGR 301	Directed Work Experience -OR-	2
AGR 349	Applied Learning in Agriculture	
GEO 353	Geographic Information Systems	3
AGR/OHO Upper Division Elective		3

Freshman (2nd semester) 14 hrs

AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
AGR 130	Plant Science	3
AGR 131	Plant Science Laboratory	1
INF 104	Computer Lit and Software Appl -OR-	3
TEC 161	Computer Applications in Technology	
Element 1B (ENG 102)		3

Sophomore (2nd semester) 16 hrs

AGR 308	Agricultural Economics	3
AGR 319	Renewable & Sustainable Energy Sys	3
^E BIO 111/111L	Cell and Molecular Biology -OR-	4
^E BIO 112/111L	Ecology and Evolution	
Element 3B (Humanities)		3
Element 4A (Historical and Global Perspective)		3

Junior (2nd semester) 14 hrs

AGR 404	Advanced Pest Management	3
^E CHE 101	Introduction to Chemistry	3
CHE 101L	Introduction to Chemistry Lab	1
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
AGR/OHO Upper Division Elective		3
Free Elective		3

Senior (2nd semester) 15 hrs

AGR 345	Sustainable Agroecosystems	3
AGR 499	Ag Advocacy and Issues Capstone -OR-	3
AGR 509	Ag Research Methods and Interpretation	
AGR 520	Global Food Systems	3
AGR/OHO Upper Division Elective		3
Free Elective		3

^E Denotes that 3 credit hours from the course are/can be applied to fulfill Essential Education Requirements.

UNIVERSITY GRADUATION REQUIREMENTS.....33 hours

- Essential Education 30 hours
- Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)3 hours
- Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

MAJOR REQUIREMENTS

Core Courses..... 47 hours

AGR 125, AGR 130 and 131(1), AGR 115, AGR 213, AGR 215, AGR 216(1), Plus three credit hours: AGR 301 or AGR 349, AGR 304(4), AGR 305(1), AGR 308, AGR 310, AGR 319, AGR 340, AGR 411(1), AGR 499 or AGR 509, AGR 520, INF 104 or TEC 161.

Agronomy, Soils & Natural Resources Concentration Requirements. 29 hours

AGR 126(1), AGR 312(4), AGR 345, AGR 404, AGR 416, AGR 430, AGR 570; Plus nine hours selected from upper division AGR and/or OHO courses.

Supporting Course Requirements.....5 hours

^EBIO 111/111L or ^EBIO 112/112L, ^ECHE 101/101L, ^EECO 120, GEO 353.

Free Electives.....6 hours

Total Curriculum Requirements

120 hours



Plant Science: Landscape, Garden Design, and Turf Management Concentration (Agriculture B.S. Degree)

The Plant Science curriculum provides career training to prepare you for a rewarding and successful career in a variety of fields in Horticulture. It encompasses residential and commercial landscape management, environmental protection, landscape design as well as golf course, sports field, greenhouse and nursery management. A wide array of jobs are available in private and commercial business, sales, design, finance, extension, government agencies, and career and technical instruction. Hands-on training is reinforced through on campus practicums in the university gardens, greenhouses, nursery, golf hole, and turf plots. Students compete in national level competitions, sell student grown products at public sales, gain competitive internships, participate in research and horticulture service learning to benefit our local community. Our small class sizes promote interactions between students, faculty, and staff so that students aren't just taught but also mentored. We are small enough to care for you as an individual but large enough to provide every career opportunity.

Career Opportunities

The practical instruction and hands-on application that EKU is known for makes you an immediate asset to employers. You will join the ranks of successful EKU graduates employed in plant science, design, landscape and turf industries. The Bureau of Labor Statistics predicts a shortfall of graduates in these areas indicating that the job market will be strong for the foreseeable future. Information for some of our most popular plant science positions.

- **Landscape Designers**—Design/sell residential, commercial, public landscapes. This position has a high level of job contentment. The average annual pay for a U.S. landscape designer in 2024 was \$79,600.
- **Landscape Management Entrepreneurs**—residential & commercial landscape management business owners in the U.S. make an average of \$128,000 annually.
- **Golf Course Superintendent**—Manage golf course labor, large budgets, turf and landscape care. The average annual pay for a U.S. golf course superintendent in 2025 was \$121,238. Graduates can obtain certification through the GCSAA after approximately 3 years on the job. The average certified golf course superintendent made \$138,303 annually in 2025. Golf course superintendents have strong support from industry organizations and stay involved in the golf community.
- **Sports Turf Managers**—Manage parks fields, school/university fields, small city team fields to professional level fields. Pay can differ substantially with the type of facility managed. Athletic field managers have a strong community of support from industry organizations and maintain lifetime involvement with their sports of interest. The average Kentucky sports turf manager's pay was \$74,947 in 2024.
- **Greenhouse Managers**—Manage the production of nursery, floral, and foliage crops. These positions, including the head-grower agri-tech positions spreading in our state and country, pay less than most other horticulture positions-- approximately \$55,000/yr.

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the University facilities and through cooperative education are further utilized to reinforce the practical application of scientific theories. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed with the changing technology and environment of the future greenscapes.

Department Facilities & Student Organizations

The Horticulture Program at EKU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building, including a modern computer laboratory, agriculture mechanics shop, hydraulic trainers, varying indoor and outdoor irrigation systems, greenhouses, fruit and vegetable gardens, landscape gardens and turf areas such as an on- campus golf hole complement and develop a student's horticulture understanding. Students have the opportunity to develop their extracurricular leadership skills through the Agriculture/Collegiate Farm Bureau Club, Block & Bridle Club, Delta Tau Alpha Agriculture Honor Society, Horticulture Club, Pre-Vet Club, and Sigma Alpha Sorority.

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Department of Agriculture
College of Science, Technology, Engineering, and Math (2026-27)

Suggested Curriculum Guide for Plant Science: Landscape, Garden Design, and Turf Management Concentration

Freshman (1st semester) 15 hrs

GSD 101	Foundations of Learning	3
AGR 115	Operation of Agricultural Equipment	3
AGR 213	Principles of Ag Mechanics and Energy Sys	3
Element 1A (ENG 101)		3
Element 2A (Math)		3

Sophomore (1st semester) 16 hrs

AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
OHO 365	Plant ID I	3
^E ECO 120	Economic Reasoning and Issues	3
Element 1C (Oral Communication)		3
Element 3B (Humanities)		3

Junior (1st semester) 15-17 hrs

AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 310	Principles of Agribusiness Management	3
AGR 340	Conservation of Agricultural Resources	3
Concentration Elective 2		2-3
Horticulture Specialist Elective 1		2-3

Senior (1st semester) 12-14 hrs

AGR 411	Senior Seminar	1
AGR 416	Soil Fertility and Management	3
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
Concentration Elective 2		2-3
Horticulture Specialist Elective 2		2-3
Free Elective		3

Freshman (2nd semester) 16 hrs

AGR 125	Principles of Animal Science	3
AGR 130	Plant Science	3
AGR 131	Plant Science Lab	1
INF 104	Computer Lit and Software Appl -OR-	3
TEC 161	Computer Applications in Technology	
Element 1B (ENG 102)		3
Element 3A (Arts)		3

Sophomore (2nd semester) 15-17 hrs

OHO 354	Irrigation Systems and Horticulture Equip	3
^E BIO 111/111L	Cell and Molecular Biology -OR-	4
^E BIO 112/111L	Ecology and Evolution	
AGR 308	Agricultural Economics	3
Element 4A (Historical and Global Perspective)		3
Concentration Elective 1		2-4

Junior (2nd semester) 15 hrs

AGR 319	Renewable & Sustainable Energy Sys	3
AGR 404	Advanced Pest Management	3
AGR 301	Directed Work Experience -OR-	2
AGR 349	Applied Learning in Agriculture	
^E CHE 101	Introduction to Chemistry	3
CHE 101L	Introduction to Chemistry Lab	1
Free Elective		3

Senior (2nd semester) 12-18 hrs

AGR 499	Ag Advocacy and Issues Capstone -OR-	3
AGR 509	Ag Research Methods and Interpretation	
AGR 520	Global Food Systems	3
Concentration Elective 3		3
Horticulture Specialist Elective 3		2-3
Free Elective		1-6

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UNIVERSITY GRADUATION REQUIREMENTS..... 33 hours

- Essential Education 30 hours
- Foundations in Learning (GSD 101; waived for transfers with 30+ hrs) 3 hours
- Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

MAJOR REQUIREMENTS

Core Courses..... 47 hours

AGR 125, AGR 130 and 131(1), AGR 115, AGR 213, AGR 215, AGR 216(1), Plus three credit hours: AGR 301 or AGR 349, AGR 304(4), AGR 305(1), AGR 308, AGR 310, AGR 319, AGR 340, AGR 411(1), AGR 499 or AGR 509, AGR 520, INF 104 or TEC 161.

Plant Science: Landscape, Garden Design, and Turf Management Concentration Requirements..... 25-31 hours

AGR 404, AGR 416, OHO 354, OHO 365, Plus three courses from (concentration electives): OHO 351(4), OHO 368(2), OHO 370, OHO 372(2), OHO 373, or OHO 388, Plus three course from (horticulture specialist electives): AGR 300(2), OHO 353, OHO 362(2), OHO 366(2), OHO 375, OHO 391, OHO 392.

Supporting Course Requirements..... 2 hours

^EBIO 111/111L or ^EBIO 112/112L, ^ECHE 101/101L, ^EECO 120.

Free Electives..... 7-13 hours

Total Curriculum Requirements

120 hours



Livestock Management Concentration (Agriculture B.S. Degree)

The Livestock Management curriculum provides career training to prepare you for a rewarding and successful career in Agriculture. A wide array of jobs are available in government agencies, vo-ag instruction, private and commercial business, agriculture sales and finance. Our program stresses the latest technical information in the classroom with hands-on application through laboratories. hands-on-training is reinforced through practicums at the university farms and through cooperative education. We are small enough to care for you as an individual but large enough to provide ever career opportunity.

Career Opportunities

The practical instruction and hands-on application enables you to be an immediate asset to employers. You will join the ranks of successful EKU graduates in areas such as retail store operation, agriculture sales, farm management, agriculture finance and banking, vocational agriculture instruction, extension and 4-H agents, government agency employees, and pursuing advanced degrees. The United States Department of Agriculture predicts a shortfall of graduates in these areas. Potential job opportunities with a B.S. in Agriculture, Livestock Management Concentration range from Agribusiness Service Manager to Pharmaceutical Sales.

- **Dairy Herdsman** - Management and planning of dairy enterprise
- **Laboratory Technician** - Assisting in the designing and implementing of research experiments/commercial laboratory technician
- **Extension/40H Agent** - Develop local agriculture and youth programs
- **Pharmaceutical Sales** - Represent feed companies to local agriculture stores and farmers
- **Feed Sales Representative** - Represent feed companies to local agriculture stores and farmers
- **Genetics/AI** - Work with farmers and AI organizations in promotion of purebred dairy industry
- **Dairy Equipment Sales** - Work with farmers in sales and maintenance of milking equipment
- **Agribusiness Service Manager** - Manages retail business involving sales of agricultural supplies, has responsibilities for all aspects of the business management
- **Agribusiness Service Sales** - Sells to retail customers, keeps records of inventory, purchases, sells and demonstrates merchandise to potential customers
- **Bank and/or Loan Officer** - Consults with loan applicants concerning their needs and ability to meet financial repayment schedules, evaluates and makes decisions about agricultural loan applications
- **Farm Manager** - Responsible for all decision-making related to the crop, animal, equipment, and labor needs of the farm, keeps records and evaluates farm financial progress

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the university enterprises and through cooperative education are further utilized to reinforce the practical application of scientific theory. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed with the ever-changing technology and environment.

Department Facilities & Student Organizations

The Agriculture Program at EKU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building, including a modern computer laboratory, ag mechanics shop, animal and plant science biotechnology laboratories equipped for research and cell cloning are also available. There are also garden displays, turf plots, and 5 greenhouses. Students will have the unique opportunity to work directly with and observe practical applications of agricultural technology at EKU's 1,100-acre Meadowbrook Farm located only eight miles from campus with an on-site classroom. The farm gives students an opportunity to experience all aspects of modern production in beef, dairy, sheep, swine, and crop enterprises. Students have the opportunity to develop their extracurricular leadership skills through the Agriculture/Collegiate Farm Bureau Club, Block & Bridle Club, Delta Tau Alpha Agriculture Honor Society, Horticulture Club, Pre-Vet Club, and Sigma Alpha Sorority.

For More Information

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Department of Agriculture College of Science, Technology, Engineering, and Math (2026-27)

Suggested Curriculum Guide for Livestock Management Concentration

Freshman (1st semester) 16 hrs

GSD 101	Foundations of Learning	3
AGR 115	Operation of Agricultural Equipment	3
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
Element 1A (ENG 101)		3
Element 2A (Math)		3

Freshman (2nd semester) 14 hrs

AGR 130	Plant Science	3
AGR 131	Plant Science with Lab	1
^E BIO 111/111L	Cell and Molecular Biology -OR-	4
^E BIO 112/112L	Ecology and Evolution	
INF 104	Computer Lit and Software Appl -OR-	
TEC 161	Computer Applications in Technology	3
Element 1B (ENG 102)		3

Sophomore (1st semester) 15 hrs

AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 321	Feeds and Feeding	4
^E CHE 101	Introduction to Chemistry	3
CHE 101L	Introduction to Chemistry Lab	1
Element 1C (Oral Communications)		3

Sophomore (2nd semester) 15-16 hrs

AGR 225	Evaluation and Selection of Livestock -OR-	3
AGR 330	Animal Products	
AGR 213	Principles of Ag Mechanics and Energy Systems	3
	Animal Science Elective	3-4
^E ECO 120	Economic Reasoning and Issues	3
Element 3A (Arts)		3

Junior (1st semester) 15-16 hrs

AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 340	Conservation of Agricultural Resources	3
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
Animal Science Elective		3-4

Junior (2nd semester) 16-17 hrs

AGR 310	Principles of Agribusiness Management	3
AGR 319	Renewable and Sustainable Energy System	3
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
	Animal Production Elective	3-4
	AGR/OHO Upper Division Elective	3
Element 3B (Humanities)		3

Senior (1st semester) 12-16 hrs

AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
AGR 411	Senior Seminar	1
Animal Science Elective		3-4
Animal Production Elective		4
AGR/OHO Upper Division Elective		3
Free Elective		0-3

Senior (2nd semester) 13-15 hrs

AGR 499	Ag Advocacy and Issues Capstone -OR-	3
AGR 509	Ag Research Methods and Interpretation	
AGR 520	Global Food Systems	3
AGR/OHO Upper Division Elective		3
Element 4A (Historical and Global Perspective)		3
Free Elective		0-3

^E Denotes that 3 credit hours from the course are/can be applied to fulfill Essential Education Requirements.

UNIVERSITY GRADUATION REQUIREMENTS.....33 hours

- Essential Education 30 hours
- Foundations in Learning (GSD 101; waived for transfers with 30+ hrs) 3 hours
- Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

MAJOR REQUIREMENTS

Core Courses..... 47 hours

AGR 125, AGR 130 and 131(1), AGR 115, AGR 213, AGR 215, AGR 216(1), Plus three credit hours: AGR 301 or AGR 349, AGR 304(4), AGR 305(1), AGR 308, AGR 310, AGR 319, AGR 340, AGR 411(1), AGR 499 or AGR 509, AGR 520, INF 104 or TEC 161.

Livestock Management Concentration Requirements.....32-36 hours

AGR 126(1), AGR 225 or AGR 330, AGR 321(4); Plus two course from (animal production elective): AGR 326(4), AGR 327(4), AGR 328(4), AGR 329(4), AGR 332, AGR 380(4); Plus three courses from (animal science elective): AGR 312(4), AGR 372(2-6), AGR 373, AGR 374, AGR 375(4), AGR 376(4), AGR 377, AGR 421; Plus eight hours of advisor approved electives in AGR and/or OHO courses.

Supporting Course Requirements.....2 hours

^EBIO 111/111L or ^EBIO 112/112L, ^ECHE 101/101L, ^EECO 120.

Free Electives.....0-6 hours

Total Curriculum Requirements 120-124 hours



Animal Science Concentration

(Animal and Veterinary Sciences, B.S.)

The Animal Science curriculum provides career training for students wanting to go directly into employment, but also qualifies students to pursue an advanced degree. Students will take courses focused in the basic sciences and all areas of animal science including livestock and domestic animals from production to processing. Many of the courses will include laboratories where students will receive hands-on training in animal handling and research. Animal science courses will include opportunities for students to work directly with both large and small animals. Hands-on-training is reinforced through practicums at the university farms and through cooperative education. Our small class size promotes interaction between students and faculty. We are small enough to care for you as an individual but large enough to provide every career opportunity. Our department's unique balance of these areas has made ECU graduates successful with finding employment with high earning potential. Areas of study include the following:

Disciplines

- Nutrition
- Feeds and Feeding
- Genetics
- Reproduction and AI certification
- Livestock Evaluation
- Carcass Grading
- Anatomy and Physiology
- Animal Diseases
- Behavior and Welfare
- Forages and Grazing Management
- Business Planning
- Farm Management
- Applied Basic Research

Species

- Beef: Cow/calf, stocker/backgrounding, finishing
- Companion Animal and Exotics
- Dairy: Robotic milking, heifer development, calf care
- Equine
- Poultry
- Sheep
- Swine: Farrow to finish

There are many opportunities for Animal Science students to extend their education beyond the classroom through competition teams such as the Dairy Challenge Team or The Animal Science Quadrathlon Team. Students will also have the opportunity to travel and network with industry professionals through annual trips to the American Society of Animal Science Conference as well as various species and discipline conferences throughout the year.

Career Opportunities

A wide array of jobs are available in the public and private sector including state local and federal government agencies, private and commercial business, agriculture management, research, sales, and finance. The practical instruction and hands-on application you will receive enables you to be an immediate asset to employers or prepared to manage your own business. You will join the ranks of successful ECU graduates 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. The U.S. Bureau of Labor Statistics and the U.S. Department of Agriculture predict the animal scientist job market to continue to grow at a faster than average rate. Animal science graduates are essential to maintaining the nation's priorities of food security, sustainable energy, and environmental quality.

Students graduating from the Animal Science Program will also be qualified to pursue advanced degrees in graduate research allowing them to specialize in any of the above areas and further increase their earning potential.

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the university enterprises and through cooperative education are further utilized to reinforce the practical application of scientific theory. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed with the ever-changing technology and environment.

Department Facilities & Student Organizations

The Animal and Veterinary Sciences Program at ECU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building, including a modern computer laboratory, ag mechanics shop, animal and plant science biotechnology laboratories equipped for research in nutrition and genetics. Students will have the unique opportunity to work directly with animals and observe practical applications of agricultural practices and ECU's Meadowbrook Farm. Meadowbrook Farm consists of a 1,100-acre laboratory which supports our instructional and practicum hands-on learning program. Located only eight miles from campus with an on-site classroom, the farm gives students an opportunity to experience all aspects of modern production in beef, dairy, sheep, swine, and crop enterprises. Students have the opportunity to develop their extracurricular leadership skills through the Agriculture/Collegiate Farm Bureau Club, Block & Bridle Club, Delta Tau Alpha Agriculture Honor Society, Horticulture Club, Pre-Vet Club, and Sigma Alpha Sorority.

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Department of Agriculture
College of Science, Technology, Engineering, and Math (2026-27)

Suggested Curriculum Guide for Animal Science Concentration

Freshman (1st semester) 14 hrs

GSD 101	Foundations of Learning	3
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
BIO 112	Ecology and Evolution	3
BIO 112L	Ecology and Evolution Lab	1
Element 1A (ENG 101)		3

Sophomore (1st semester) 15 hrs

AGR 321	Feeds and Feeding	4
AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
^E CHE 111	General Chemistry I	3
CHE 111L	General Chemistry Lab I	1
^E ECO 120	Economic Reasoning and Issues	3
Element 1C (Oral Communications)		3

Junior (1st semester) 13-16 hrs

AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 375	Reproduction of Domestic Animals	4
CHE 361	Organic Chemistry I	3
CHE 361L	Organic Chemistry Lab I	1
Free Elective		0-3

Senior (1st semester) 15-18 hrs

AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
Animal Science Elective		3
Animal Production Elective		4
Science Elective		4
Element 4A (Historical and Global Perspective)		3
Free Elective		0-3

Freshman (2nd semester) 16-18 hrs

AGR 225	Evaluation and Selection of Livestock -OR-	3
AGR 330	Animal Products	
^E BIO 111	Cell and Molecular Biology	3
BIO 111L	Cell and Molecular Biology Lab	1
^E MAT Elective		3-5
Element 1B (ENG 102)		3
Element 3A (Arts)		3

Sophomore (2nd semester) 16-17 hrs

AGR 308	Agricultural Economics	3
AGR 374	Genetics of Livestock Improvement	3
CHE 112	General Chemistry II	3
CHE 112L	General Chemistry Lab II	1
STA 215	Introduction to Statistical Reasoning -OR-	
STA 270	Applied Statistics	3-4
Element 3B (Humanities)		3

Junior (2nd semester) 12-18 hrs

AGR 310	Principles of Agribusiness Management -OR-	3
AGR 350	Agricultural Marketing	
Animal Science Elective		3
Animal Production Elective		3-4
Science Elective		3-5
Free Elective		0-3

Senior (2nd semester) 12-13 hrs

AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture	
AGR 411	Senior Seminar	1
AGR 499	Ag Advocacy and Issues Capstone -OR-	3
AGR 509	Ag Research Methods and Interpretation	
AGR 521	Animal Nutrient Metabolism	3
Animal Production Elective		4
Free Elective		0-1

^E Denotes that 3 credit hours from the course are/can be applied to fulfill Essential Education Requirements.

UNIVERSITY GRADUATION REQUIREMENTS..... 33 hours

- Essential Education.....30 hours
- Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)..... 3 hours
- Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

MAJOR REQUIREMENTS

Core Courses.48 hours

AGR 125, AGR 126(1), Plus three credit hours: AGR 301 or AGR 349 (3), AGR 304(4), AGR 305(1), AGR 308, AGR 310 or AGR 350, AGR 321(4), AGR 374, AGR 375(4), AGR 411(1), AGR 499 or AGR 509, AGR 521, BIO 112, BIO 112L(1), CHE 112, CHE 112L (1), CHE 361, CHE 361L(1).

Animal Science Concentration Requirements.18-23 hours

AGR 225 or AGR 330; Plus two courses from animal science electives: AGR 312(4), AGR 372(2-6), AGR 373, AGR 376(4), AGR 377; Plus three courses from animal production electives: AGR 255, AGR 326(4), AGR 327(4), AGR 328(4), AGR 329(4), AGR 332, AGR 380(4).

Supporting Course Requirements.9-15 hours

^EBIO 111/111L, ^ECHE 111/111L, ^EECO 120, STA 215 or STA 270(4); Plus one course from ^EMAT elective: MAT 112A/B, MAT 114, MAT 120, MAT 122 (5), MAT 211, MAT 234(4); Plus two courses from: BIO 320(4), BIO 331, BIO 348, BIO 546(4), CHE 362/362L(4), CHE 430, CHE 431, PHY 131(5), PHY 132(5).

Free Electives..... ..0-10 hours

Total Curriculum Requirements

120-122 hours



Pre-Veterinary Concentration (Animal and Veterinary Sciences, B.S.)

The Pre-Veterinary Program at Eastern Kentucky University is administered by the Department of Agriculture. Students in the Pre-Veterinary program will take courses focused in animal science, biology, chemistry, mathematics, and physics. Many of the courses will include laboratories where students will receive hands-on training in animal handling and research. Animal science courses will include opportunities for students to work directly with both large and small animals. Hands-on-training is reinforced through practicums at the university farms and through cooperative education. Our small class size promotes interaction between students and faculty. We are small enough to care for you as an individual but large enough to provide every career opportunity. Our department's unique balance of these areas has led EKU to have one of the highest veterinary school acceptance rates in Kentucky.

Although Kentucky does not have a veterinary school, the state has 38 contract seats at Auburn University College of Veterinary Medicine, and 3 seats at Tuskegee University College of Veterinary Medicine. Admission to veterinary school is highly competitive and requires a strong GPA along with experience in the veterinary profession. Students will work directly with knowledgeable faculty advisor throughout their academic career and the application process.

Tips for success in the pre-vet program:

- **Meet Regularly with your academic advisor.** There is no standard list of Vet. School requirements, each schools' requirements will differ slightly. Your advisor can guide you to be sure specific program requirements have been fulfilled.
- **Dedicate yourself to good study habits.** Attend and participate in all lectures and laboratories. Veterinary School is highly competitive. A GPA of 3.4 or higher will give you a competitive edge.
- **Work with a veterinarian.** An exhibited depth and breadth of veterinary experience is necessary to help you become familiar with the field. This experience will also help develop the working relationship needed for a letter of recommendation that will be invaluable in preparing your application for acceptance to veterinary school.
- **Get involved.** Demonstrated time management, leadership, and teamwork skills are important to acceptance and success in the profession. The Department of Agriculture supports the Pre-Vet Club, Delta Tau Alpha Agriculture Honor Society, and several other student organizations that provide opportunities for extracurricular learning/fun experiences.

Career Opportunities

The Pre-Veterinary curriculum prepares students to meet entrance requirements for veterinary schools throughout the United States and abroad. The rigorous coursework also prepares 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. Students may also choose to pursue careers in pharmaceutical sales for marketing and distribution of medical supplies or in research working as a laboratory technician to assist in the collection and analysis of research data for government, university, or private laboratories.

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the university enterprises and through cooperative education are further utilized to reinforce the practical application of scientific theory. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed with the ever-changing technology and environment.

Department Facilities & Student Organizations

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Department of Agriculture
College of Science, Technology, Engineering, and Math (2026-27)

Suggested Curriculum Guide for Pre-Veterinary Concentration

Freshman (1st semester) 14-16 hrs			Freshman (2nd semester) 14-15 hrs		
GSD 101	Foundations of Learning	3	Animal Science Elective		3-4
AGR 125	Principles of Animal Science	3	^E BIO 111	Cell and Molecular Biology	3
AGR 126	Animal Science Laboratory	1	BIO 111L	Cell and Molecular Biology Lab	1
BIO 112	Ecology and Evolution	3	^E CHE 111	General Chemistry I	3
BIO 112L	Ecology and Evolution Lab	1	CHE 111L	General Chemistry Lab I	1
^E MAT Elective		3-5	Element 1A (ENG 101)		3
Sophomore (1st semester) 16 hrs			Sophomore (2nd semester) 16 hrs		
AGR 321	Feeds and Feeding	4	AGR 374	Genetics of Livestock Improvement	3
CHE 112	General Chemistry II	3	CHE 361	Organic Chemistry I	3
CHE 112L	General Chemistry Lab II	1	CHE 361L	Organic Chemistry Lab I	1
PHY 131	College Physics I	5	^E ECO 120	Economic Reasoning and Issues	3
Element 1B (ENG 102)		3	Element 1C (Oral Communications)		3
			Element 3A (Arts)		3
Junior (1st semester) 16 hrs			Junior (2nd semester) 12-17 hrs		
AGR 304	Pest Management	4	AGR 521	Animal Nutrient Metabolism	3
AGR 305	Professional Skills Seminar	1	Animal Production Elective		3-4
AGR 375	Reproduction of Domestic Animals	4	CHE 430	Biochemistry of Macromolecules	3
CHE 362	Organic Chemistry II	3	Science Elective		3-4
CHE 362L	Organic Chemistry Lab II	1	Free Elective		0-3
Element 3B (Humanities)		3			
Senior (1st semester) 11-17 hrs			Senior (2nd semester) 14-16 hrs		
AGR 301	Directed Work Experience -OR-	2	AGR 301	Directed Work Experience -OR-	1
AGR 349	Applied Learning in Agriculture		AGR 349	Applied Learning in Agriculture	
AGR 308	Agricultural Economics	3	AGR 310	Principles of Agribusiness Management	3
Animal Production Elective		3-4	AGR 411	Senior Seminar	1
Science Elective		3-5	AGR 499	Ag Advocacy and Issues Capstone -OR-	3
Free Elective		0-3	AGR 509	Ag Research Methods and Interpretation	
			Animal Science Elective		3-4
			Element 4A (Historical and Global Perspectives)		3
			Free Elective		0-1

^E Denotes that 3 credit hours from the course are/can be applied to fulfill Essential Education Requirements.

UNIVERSITY GRADUATION REQUIREMENTS.....33 hours

- Essential Education 30 hours
- Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)3 hours
- Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

MAJOR REQUIREMENTS

Core Courses.....48 hours

AGR 125, AGR 126(1), AGR 301 or AGR 349 (3), AGR 304(4), AGR 305(1), AGR 308, AGR 310 or AGR 350, AGR 321(4), AGR 374, AGR 375(4), AGR 411(1), AGR 421, AGR 499 or AGR 509, BIO 112, BIO 112L(1), CHE 112, CHE 112L (1), CHE 361, CHE 361L(1).

Pre-Veterinary Concentration Requirements.....11-16 hours

Choose two courses from animal science electives: AGR 312(4), AGR 372(2-6), AGR 373, AGR 376(4), AGR 377; Choose two courses from animal production electives: AGR 255, AGR 326(4), AGR 327(4), AGR 328(4), AGR 329(4), AGR 332, AGR 380(4).

Supporting Course Requirements.....20-25 hours

^EBIO 111/111L, ^ECHE 111/111L, CHE 362/362L, CHE 430, ^EECO 120, STA 215 or STA 270(4); Plus one course from ^EMAT elective: MAT 120, MAT 122 (5), MAT 211, MAT 234(4); Plus two courses from: BIO 320(4), BIO 331, BIO 348, BIO 546(4), CHE 431, PHY 132(5).

Free Electives0-8 hours

Total Curriculum Requirements

120-122 hours