



Astronomy

and Math (2026-27)

Department of Physics, Geosciences, and

College of Science, Technology, Engineering,

Suggested Curriculum Guide for Physics, B.S. Teaching Concentration

Freshman (1st Semester) 14 hrs

GSD 101- Foundations in Learning
^CCHE 111 (*fulfills Gen. Ed. 2b*)- General Chemistry I
 CHE 111L- General Chemistry I Lab
^S ^CMAT 234 (*fulfills Gen. Ed. 2a*)- Calculus I
 Gen. Ed. 1A (*ENG 101*)

Sophomore (1st Semester) 17 hrs

EDF 203- Philosophical & Historical Found. of Ed.
 PHY 201 or 131- University or College Physics I
^CCMS 100 or CMS 210 Intro to Comm or Public Speaking
 Gen. Ed. Course
 CSC 174 – Intro to Programming

30 hrs complete + apply to professional education program

Junior (1st Semester) 15 hrs

EDC 300- Differentiation in Inclusive Classrooms
 EDF 204- Emerging Instructional Technologies
 EMS 300- Curriculum & Instructional Design
 PHY 302- Modern Physics
 PHY 300 or above

Senior (1st Semester) 16 hrs

CED 450- Clinical V: Practicing Teaching
 ESE 561- Teaching Science in Secondary School
 Gen. Ed. Course
 Gen. Ed. Course
 AST 335 – Star, Galaxies, Cosmology
 EMS 474 – Teaching Content Reading

Freshman (2nd Semester) 17 hrs

CHE 112- General Chemistry II
 CHE 112L- General Chemistry II Lab
 MAT 244- Calculus II
 SED 104 Intro. to Special Education
 Gen. Ed. 1B (*ENG 102*)
 Gen. Ed. Course

Sophomore (2nd Semester) 14 hrs

AST 135- Introductory Astronomy (*fulfills Gen. Ed. Flex*)
^CBIO 100- Introductory Biology
 EDF 219- Human Development and Learning
 PHY 202 or 132- University or College Physics II

Junior (2nd Semester) 19 hrs

CED 400 - Clinical IV: Diagnosis & Perception
 EDF 413- Assessment in Education
 EMS 490 (*spring only*)- Classroom & Behavior Management in P-12
 PHY 211 (*spring only*)- Intermediate Physics
 PHY 406- Advanced Physics Lab
 PHY 315 – Electrical Circuits

Senior (2nd Semester) 12 hrs

CED 499- Supervised Student Teaching

APPLY FOR STUDENT TEACHING

UNIVERSITY GRADUATION REQUIREMENTS

General Education
 Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)

33 hours

30 hours
 3 hours

MAJOR REQUIREMENTS

Core Courses

PHY 201 or PHY 131, PHY 202 or PHY 132, PHY 211, PHY 302, PHY 315, PHY 406, MAT 244, CHE 112, CHE 112L, CSC 174

37 hours

Concentration Requirements

AST 135, AST 335
 †PLUS, THREE (3) HOURS of PHY courses numbered 300 and above.

9 hours

Supporting Course Requirements

^CBIO 100, ^CCHE 111, CHE 111L, ^C MAT 234

2 hours

Education Professional Standards Board (EPSB) Requirements

EDC 300, EDF 203, EDF 204, EDF 219, ^CCMS 100 or CMS 210, EDF 413, EMS 300, EMS 474, EMS 490, ESE 561, SED 104, CED 400, CED 450, CED 499

43 hours

Total Curriculum Requirements

124 hours

