



Astronomy

and Math (2025-26)

Department of Physics, Geosciences, and

College of Science, Technology, Engineering,

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

Freshman (1st Semester) 17 hrs

GSD 101- Foundations in Learning
^CCHE 111 (*fulfills Gen. Ed. 4*)- General Chemistry I
 CHE 111L- General Chemistry I Lab
^S MAT 234 (*fulfills Gen. Ed. 2*)- Calculus I
 Gen. Ed. 1A (*ENG 101*)
 Gen. Ed. 3A (*Arts*)

Sophomore (1st Semester) 17 hrs

CED 100- Clinical I: Intro to the Education Prof.
 EDF 203- Philosophical & Historical Found. of Ed.
 PHY 201 or 131- University or College Physics I
 Gen. Ed. 1C (*Oral Comm.*)
 Gen. Ed. 5A (*History*)
 Free Elective

30 hrs complete + apply to professional education program

Junior (1st Semester) 15.5 hrs

AST 335- Stars, Blackholes: The Cosmos
 CED 300- Clinical III: Curriculum and Instruct. Des.
 EDC 300- Differentiation Inclusive Classrooms
 EDF 204- Emerging Instructional Technologies
 EMS 300- Curriculum & Instructional Design
 PHY 302- Modern Physics

Senior (1st Semester) 16 hrs

CED 450- Clinical V: Practicing Teaching
 ESE 561- Teaching Science in Secondary School
 Gen. Ed. 3B (*Humanities*)
 Gen. Ed. 5B Course 2
 Free Elective
 Free Elective

APPLY FOR STUDENT TEACHING

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. 5B Course 1 (*Soc. & Behav. Sci.*)

Sophomore (2nd Semester) 14 hrs

AST 135- Introductory Astronomy
^CBIO 100 or 102 (*fulfills Gen. Ed. 4*)- Introductory Biology or Inquiry
 Biology for Teachers
 CED 200- Clinical II: Understanding the Learner
 EDF 219- Human Development and Learning
 PHY 202 or 132- University or College Physics II

Junior (2nd Semester) 17 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 Elective (*300 level or above*)

Senior (2nd Semester) 12 hrs

CED 499- Supervised Student Teaching
 EMS 474- Teaching Content Reading

UNIVERSITY GRADUATION REQUIREMENTS

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

39 hours

36 hours
 3 hours

MAJOR REQUIREMENTS

Core Courses

PHY 201 OR PHY 131, PHY 202 OR PHY 132, PHY 211, PHY 302, PHY 406

22 hours

Concentration Requirements

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

9 hours

Supporting Course Requirements

*BIO 100 or *BIO 102, *CHE 111, CHE 111L, CHE 112, CHE 112L, ^G MAT 234, MAT 244

10 hours

Professional Education Requirements

EDC 300, EDF 203, EDF 204, EDF 219, EDF 413, EMS 300W, EMS 474, EMS 490, ESE 561, SED 104

37 hours

PLUS, TWELVE (12) HOURS of Clinical Experiences to include:
 CED 100, CED 200, CED 300, CED 400, CED 450, CED 499

Free Electives

Total Curriculum Requirements

3 hours
120 hours

