



Department of Physics, Geosciences, and Astronomy
College of Science, Technology, Engineering,
and Math (2026-27)

Sample Curriculum Guide for BS Physics, Engineering Physics Concentration

Freshman (1st Semester) 14 hrs

GSD 101- Foundations of Learning	3
^a CHE 111 (<i>fulfills Gen. Ed. 2b</i>)- General Chemistry I	3
CHE 111L- General Chemistry I Lab	1
[§] ^a MAT 234 (<i>fulfills Gen. Ed. 2a</i>)- Calculus I	4
Gen. Ed. 1A (<i>ENG 101</i>)	3

Freshman (2nd Semester) 16 hrs

CHE 112-General Chemistry II	3
CHE 112L-General Chemistry II Lab	1
MAT 244- Calculus II	4
PHY 201- University Physics I	5
Gen. Ed. 1B (<i>ENG 102</i>)	3

Sophomore (1st Semester) 15 hrs

MAT 254- Calculus III	4
MAT 353- Differential Equations	3
PHY 202- University Physics II	5
Gen. Ed. Course	3

Sophomore (2nd Semester) 16 hrs

CSC 174- Intro. to Programming for Science and Engineering	3
PHY 211- Intermediate Physics	4
PHY 221- Statics	3
Gen. Ed. Course	3
Free Elective	3

Junior (1st Semester) 16 hrs

PHY 302- Modern Physics	4
PHY 310- Theoretical Methods in Physics	3
PHY 375- Engineering Thermodynamics	3
PHY 360- Engineering Dynamics	3
Gen. Ed. Course	3

Junior (2nd Semester) 15 hrs

PHY 315- Electrical Circuits	4
PHY 406- Advanced Physics Laboratory	4
PHY 380- Fluid Mechanics	3
Free Elective	4

Senior (1st Semester) 16 hrs

[†] Restricted Elective	3
Gen. Ed. Course	3
EET 252- Digital Electronics	3
Free Elective (<i>upper division</i>)	4
Free Elective	3

Senior (2nd Semester) 12 hrs

Gen. Ed. Course	3
Gen. Ed. Course	3
Free Elective (<i>upper division</i>)	3
Free Elective (<i>upper division</i>)	3

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, PHY 202, PHY 211, PHY 302, PHY 315, PHY 406, MAT 244, CHE 112, CHE 112L, CSC 174

37 hours

Concentration Requirements

PHY 221, PHY 310, PHY 360 or PHY 460, PHY 375, PHY 380

18-19 hours

[†] PLUS THREE (3) HOURS selected from (restricted elective):

*CSC 185, *EET 253, *EET 257, *EET 351, PHY 303, PHY 402, PHY 410, PHY 411, PHY 412, STA 270

Supporting Course Requirements

*CHE 111, *CHE 111L, EET 252, MAT 234, MAT 254, MAT 353

12 hours

Free Electives.....19-20 hours

Total Curriculum Requirements

120 hours