

**Sample Curriculum Guide for Physics, B.S. General Concentration****Freshman (1st Semester) 14 hrs**

GSD 101- Foundations in Learning	3
⁶ CHE 111 (<i>fulfills Gen. Ed. 2b</i>)- General Chemistry I	3
CHE 111L- General Chemistry Lab	1
⁵ 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) 17 hrs

CSC 174- Intro. to Programming for Science and Engineering	3
PHY 211- Intermediate Physics	4
PHY 315 – Electrical Circuits	4
Gen. Ed. Course	3
Gen. Ed. Course	3

Junior (1st Semester) 16 hrs

PHY 302- Modern Physics	4
PHY 310- Theoretical Methods in Physics	3
[†] PHY Elective (<i>upper division</i>)	3
Gen. Ed. Course	3
Free Elective	3

Junior (2nd Semester) 14 hrs

PHY 406- Advanced Physics Laboratory	4
PHY 460- Classical Mechanics	4
Gen. Ed. Course	3
Free Elective (<i>upper division</i>)	3

Senior (1st Semester) 15 hrs

PHY 421- Electricity and Magnetism I	3
PHY 456- Statistical and Thermal Physics	3
Gen. Ed. Course	3
Free Elective (<i>upper division</i>)	3
Free Elective (<i>upper division</i>)	3

Senior (2nd Semester) 13 hrs

PHY 422- Electricity and Magnetism II	3
PHY 470- Quantum Mechanics	3
Free Elective (<i>upper division</i>)	3
Free Elective (<i>upper division</i>)	4

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 310, PHY 421, PHY 422, PHY 456, PHY 460, PHY 470

22 hours

[†] PLUS THREE (3) HOURS selected from any PHY course numbered 300 or above, except PHY 506.

Supporting Course Requirements

CHE 111, CHE 111L, MAT 234⁶, MAT 254, MAT 353

9 hours**Free Electives****19 hours****Total Curriculum Requirements****120 hours**