

**Suggested Curriculum Guide for Physics, B.S. General Concentration****Freshman (1st Semester) 17 hrs**

GSD 101- Foundations in Learning	3
⁶ CHE 111 (<i>fulfills Gen. Ed. 4</i>)- General Chemistry I	3
CHE 111L- General Chemistry Lab	1
⁵ MAT 234 (<i>fulfills Gen. Ed. 2</i>)- Calculus I	4
Gen. Ed. 1A (<i>ENG 101</i>)	3
Gen. Ed. 4 (<i>Nat. Sci.</i>) (<i>AST 335 recommended</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. 1C (<i>Oral Comm.</i>)	3

Junior (1st Semester) 13 hrs

PHY 302- Modern Physics	4
PHY 310- Theoretical Methods in Physics	3
[†] PHY Elective (<i>upper division</i>)	3
Gen. Ed. 5A (<i>History</i>)	3

Senior (1st Semester) 15 hrs

PHY 421- Electricity and Magnetism I	3
PHY 456- Statistical and Thermal Physics	3
Gen. Ed. 5B Course 2	3
Free Elective (<i>upper division</i>)	3
Free Elective (<i>upper division</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 (2nd Semester) 16 hrs

CSC 174- Intro. to Programming for Science & Engineering	3
PHY 211- Intermediate Physics	4
Gen. Ed. 3A (<i>Arts</i>)	3
Gen. Ed. 3B (<i>Humanities</i>) Course 1	3
Gen. Ed. 5B (<i>Soc. & Behav. Sci.</i>) Course 1	3

Junior (2nd Semester) 17 hrs

PHY 406- Advanced Physics Laboratory	4
PHY 460- Classical Mechanics	4
Gen. Ed. 5B Course 1	3
Free Elective (<i>upper division</i>) Free Elective	3

Senior (2nd Semester) 14 hrs

PHY 422- Electricity and Magnetism II	3
PHY 470- Quantum Mechanics	3
Free Elective	4
Free Elective	4

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, PHY 202, PHY 211, PHY 302, PHY 406

22 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, CHE 112, CHE 112L, [‡] CSC 174, MAT 234⁶, MAT 244, MAT 254, MAT 353**20 hours****Free Electives****17 hours****Total Curriculum Requirements****120 hours**