

Bachelor of Science in Physics Sample Program (Minimum 124 cr. required)

First Semester - Freshman Year

CHEM C105 Principles of Chemistry I	3
CHEM C125 Experimental Chemistry I	2
MATH 165 Analytic Geometry and Calculus I	4
MATH 171 Multidimensional Mathematics	3
SCI I120 Windows on Science	1
ENG W131 Elementary Composition I	3
Total	16

Second Semester

PHYS 152 Mechanics	4
CHEM C106 Principles of Chemistry II	3
CHEM C126 Experimental Chemistry II	2
MATH 166 Analytic Geometry and Calculus II	4
Second composition course	3
Total	16

Third Semester - Sophomore Year

PHYS 251 Heat, Electricity, and Optics	5
MATH 261 Multivariate Calculus	4
CSCI Course	3-4
HIST H114 History of Western Civilization II	3
Total	15-16

Fourth Semester

PHYS 300 Mathematical Physics	3
PHYS 342 Modern Physics	3
MATH 266 Ordinary Differential Equations	3
COMM R110 Fundamentals of Speech Communication	3
One course from List H, S, or C	3
Total	15

Fifth Semester - Junior Year

PHYS 310 Intermediate Mechanics	4
MATH Course	3
One course from remaining two Lists H, S, or C	3
One course from remaining List H, S, or C	3
Elective	3
Total	16

Sixth Semester

PHYS 330 Intermediate Electricity and Magnetism	3
PHYS 353 Electronics Laboratory	2
MATH Course	3
Physical or biological science elective	3
General education elective	3
Elective	3
Total	17

Seventh Semester - Senior Year

PHYS 400 Physical Optics	3
PHYS 401 Physical Optics Laboratory	2
PHYS 442 Quantum Mechanics	3
Physical or biological science elective	3
Elective	3
Total	14

Eighth Semester

PHYS 416 Thermal Physics	3
PHYS 490 Capstone Experience	1-3
Electives	8-10
CAND 991 Candidate for Graduation	0
Total	12-16