

BS in Physics

*Following is **one** suggested four-year degree plan. Students are encouraged to see their adviser each semester for help with program decisions and enrollment.*

BS in Physics

FRESHMAN YEAR

FALL	HOURS
CHEM 1410, General Chemistry ¹⁰	3
CHEM 1430, Laboratory for General Chemistry	1
ENGL 1310, College Writing I	3
MATH 1710, Calculus I ^{4, 58}	4
PHYS 1710, Mechanics	3
PHYS 1730, Laboratory in Mechanics	<u>1</u>
Total	15

FRESHMAN YEAR

SPRING	HOURS
CHEM 1420, General Chemistry ¹⁰	3
CHEM 1440, Laboratory for General Chemistry	1
ENGL 1320, College Writing II ⁶	3
MATH 1720, Calculus II ⁵⁸	3
PHYS 2220, Electricity and Magnetism	3
PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics	1
Wellness ¹¹	<u>2-3</u>
Total	16-17

SOPHOMORE YEAR

FALL	HOURS
ENGL 2210, World Literature I	3
LANG 2040, Foreign Language (intermediate) ³	3
MATH 2730, Multivariable Calculus ⁵⁸	3
PHYS 3010, Modern Physics ²⁰	3
PHYS 3030, Laboratory in Modern Physics ²⁰	1
PHYS 3210, Classical Mechanics	3
Oral Communication ²	<u>3</u>
Total	19

SOPHOMORE YEAR

SPRING	HOURS
CSCI 1110, Program Development	4
ENGL 2220, World Literature II	3
LANG 2050, Foreign Language (intermediate) ³	3
MATH 3410, Differential Equations I ⁵⁸	3
PHYS 4160, Experimental Physics II	3
PHYS Option (advanced)	<u>3</u>
Total	19

JUNIOR YEAR

FALL	HOURS
HIST 2610, United States History to 1865 ¹²	3
MATH 2700, Linear Algebra and Vector Geometry ⁵⁸	3
PHYS 3310, Mathematical Methods	3
PHYS 4110, Statistical and Thermal Physics	3
Elective ¹⁶	3
Understanding of Ideas and Values ⁸	<u>3</u>
Total	18

JUNIOR YEAR

SPRING	HOURS
HIST 2620, United States History Since 1865 ¹²	3
PHYS 4150, Experimental Physics I	3
MATH Option (above 3150)	3
PHYS Option (advanced)	3
Elective ¹⁶	3
Understanding of Ideas and Values ⁸	<u>3</u>
Total	18

SENIOR YEAR

FALL	HOURS
PHYS 4210, Electricity and Magnetism	3
PSCI 1040, American Government	3
PHYS Option (advanced) ¹³	3
PHYS Option (advanced) ¹³	3
Visual and Performing Arts ⁷	<u>3</u>
Total	15

SENIOR YEAR

SPRING	HOURS
ECON 1110, Principles of Macroeconomics	3
PHYS 4310, Quantum Mechanics	3
PSCI 1050, American Government	3
MATH Option (above 3150)	3
PHYS Option (advanced)	1
Elective ¹⁶	<u>3</u>
Total	16

Actual degree plans may vary depending on availability of courses in a given semester.

Some courses may require prerequisites not listed.

See Arts and Sciences notes in supplement booklet for footnotes.

Supplemental Information for BS in Physics

1. Physics Options: PHYS 3220, 3420(4), 4050, 4150 or 4160, 4220, 4500, 4550, 4600, 4710

2. Advanced-level courses in physics are offered on a two-year cycle. Planning for physics courses must be done by using the frequency of offering schedule below:

- Spring (even years): PHYS 3220, 4110, 4150
- Fall (even years): PHYS 3010/3030, 3210, 3310, 3420, 4210, 4600
- Spring (odd years): PHYS 4160, 4420, 4310

- Fall (odd years): PHYS 3010/3030, 3210, 3310, 3420

3. Mathematics Requirements: Students who must schedule Physics courses with mathematics prerequisites must plan their mathematics programs carefully. Freshmen should note mathematics placement procedures described in the Department of Mathematics section of this catalog. Physics majors who are advised to take MATH 1650 prior to PHYS 1710 may count this courses as elective credit.

4. Minimum total of hours required for degree: 134
