

Physics (PHYS)

Curriculum in Physics (PHYS)

Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I		3 Core History or Literature ¹	3
MATH 1610 Calculus I		4 ENGL 1120 English Composition II	3
PHYS 1100 Physics Orientation		1 MATH 1620 Calculus II	4
COMM 1000 Public Speaking		3 PHYS 1607 Honors Physics I or 1600 Engineering Physics I	4
Core Fine Arts		3	
		14	14

Sophomore

Fall	Hours	Spring	Hours
Core Literature		3 Core Humanities or Social Science ²	3
Core History		3 PHYS 2400 Mathematical and Computational Methods of Physics³	3
MATH 2630 Calculus III		4 PHYS 2300 Physics Laboratory Skills	3
PHYS 1617 Honors Physics II or 1610 Engineering Physics II		4 Electives	3
		PHYS 2200 Introductory Quantum Physics and Relativity	3
		14	15

Junior

Fall	Hours	Spring	Hours
Core Social Science ¹		3 Core Social Science	3
PHYS 2100 Intermediate Mechanics		3 PHYS 3200 Statistical Thermodynamics	3
PHYS 3100 Intermediate Electricity and Magnetism		3 PHYS 4100 Fundamentals of Quantum Mechanics	3
Science Electives ⁴		4 Science Elective ⁴	4
Electives		3 Electives	3
		16	16

Senior

Fall	Hours	Spring	Hours
PHYS 4200 Fundamental Experiments in Physics		3 Professional Elective⁵	6
Professional Elective⁵		6 Physics Elective⁵	3
Electives		7 Electives	6
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		16	15

Total Hours: 120

2 Physics (PHYS)

- 1 Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the Bulletin.
- 2 If a LIT sequence is chosen, this course must be a CORE SOCIAL SCIENCE. If a HIST sequence is chosen, this course must be a CORE HUMANITIES.
- 3 Substitution of MATH 2650 and one of MATH 2660 or MATH 2667 is acceptable
- 4 Science Electives consist of a sequence of GEOL 1100- GEOL 1110 or CHEM 1030/CHEM 1031 – CHEM 1040/CHEM 1041 or BIOL 1020/BIOL 1021- BIOL 1030/BIOL 1031
- 5 PHYS and Professional Electives must be at the 3000 level or higher. A Plan of Study indicating choices and physics advisor approval for Physics and Professional electives must be on file in the Dean's Office before scheduling those courses.
- 6 This course must be taken the semester of graduation.