

Physics Standard Major

List of Required Courses

Physics: 2110, 2120, 3005, 3010, 3030, 3550, 3700, 3800, 4000, and six upper-level physics or astronomy elective hours

Math: 1910, 1920, 2110, and 3120

Computer Science: 1010

Description of Program

The standard physics major is intended to prepare students for graduate study leading to a terminal masters or doctoral degree, while still allowing some flexibility for students wanting to enter the workforce. This major requires a minor, but students completing the required mathematics courses are within 3 hours of a minor in mathematics.

Recommended 4-Year Schedule (with Mathematics minor)

Freshman

Physics 2110, University Physics I	5	Physics 2120, University Physics II	5
Math 1910, Calculus & Analytic Geom. I	5	Math 1920, Calculus & Analytic Geom.	5
English 1010, English Comp. I	3	CSci 1010, Intro to Programming I	3
Freshman Experience	1	English 1020, English Comp. II	3
	14		16

Sophomore

Physics 3005, Theoretical Methods	4	Physics 3550, Experimental Methods	3
Physics 3700, Modern Physics	4	Physics 4000, Computational Methods	3
Math 2110, Calculus III	3	COMM 1010, Fund. of Public Speaking	3
Humanities Elective	3	Humanities Elective	3
Elective	1	Social/Behavioral Science Elective	3
	15		15

Junior

Physics 3800, Quantum Mechanics	3	Physics 3030, Electricity & Magnetism	3
Math 3120, Differential Equations I	3	Math 3130, Differential Equations II	3
History 2010, American History I	3	History 2020, American History II	3
English 2030, Trad. in World Literature	3	Liberal Arts	3
Elective	3	Elective	3
	15		15

Senior

Physics Elective	3	Physics 3010, Intermediate Mechanics	3
Social/Behavioral Science Elective	3	Physics Elective	3
Upper-level Elective	3	Upper-level Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15