

Physics Major

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B. S. in Physics - Curriculum Map 2016-2017 Catalog

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Freshman			
Fall	Cr.	Spring	Cr.
EN 101 Composition and Literature I	3	EN 102 Composition and Literature II	3
MA 121 Calculus I (General Education Math)	4	MA 122 Calculus II (General Education Math)	4
CH 103 General Chemistry I (General Education Lab Science)	4	CH 104 General Chemistry II (General Education Lab Science)	4
PS 107 Introductory Solar System Astronomy	4	PS 108 Stellar and Galactic Astronomy	4
Semester Total Credits	15	Semester Total Credits	15
Sophomore			
Fall	Cr.	Spring	Cr.
EN 201 World Literature I (General Education Literature)	3	EN 202 World Literature II	3
MA 223 Calculus III	4	MA 224 Differential Equations	4
PS 211 University Physics I	4	PS 212 University Physics II	4
General Education Ethics	3	General Education History	3
		General Education Social Science	3
Semester Total Credits	14	Semester Total Credits	17
Junior			
Fall	Cr.	Spring	Cr.
PS 334 Classical Mechanics or 356 Thermodynamics & Statistical ¹	3	PS 444 Quantum Physics or 428 Electrodynamics & Optics ¹	3
PS 341 Modern Physics or 426 Electricity and Magnetism ¹	3	PS 374 Junior Laboratory II	2
PS 373 Junior Laboratory I	2	Mathematics Elective ²	3
Mathematics Elective ²	3	General Education Arts & Humanities	3
Free Elective	3	Free Elective	3
		Free Elective	3
Semester Total Credits	14	Semester Total Credits	17
Senior			
Fall	Cr.	Spring	Cr.
PS 356 Thermodynamics & Statistical or 334 Classical Mechanics ¹	3	PS 428 Electrodynamics & Optics or 444 Quantum Physics ¹	3
PS 426 Electricity and Magnetism or 341 Modern Physics ¹	3	PS 452 Seminar II (Capstone)	1
PS 451 Seminar I	1	PS 474 Senior Laboratory II	3
PS 473 Senior Laboratory I	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3		
Semester Total Credits	16	Semester Total Credits	13
Total Credits For This Major: 121			

¹ This course is offered in alternate years. Both courses listed are required. For the years these courses are offered, see Course Descriptions.

² The approval of the Department of Physics is required.