

Freshman Year

This plan is unofficial and should be used for reference only.

First Semester*	(Th-Pr)	Cr	Second Semester	(Th-Pr)	Cr
PHYS 101 Topics in Cont. Physics ¹	(1-0)	1	ASTR 102 Observational Astronomy ¹	(0-3)	1
MATH 171 Analytic Geom. and Calculus ¹	(4-0)	4	PHYS 206 Newtonian Mech. for Engr. and Sci. ¹	(3-0)	3
PHYS 150 Intro to Programming for Physics ¹	(3-0)	3	PHYS 226 Physics of Motion Lab for Sci. ¹	(0-2)	1
ENGL 103/104 Comp. and Rhetoric	(3-0)	3	MATH 172 Calculus ¹	(4-0)	4
HIST 105 History of the U.S. ²	(3-0)	3	Language, Philosophy and Culture elective ²	(3-0)	3
			HIST 106 History of the U.S. ²	(3-0)	3
		14			15

Sophomore Year

First Semester	(Th-Pr)	Cr	Second Semester	(Th-Pr)	Cr
PHYS 207 Elect. & Mag. for Engr. and Sci. ¹	(3-0)	3	PHYS 225 Electronic Circuits	(1-4)	3
PHYS 227 Elect. & Mag. Lab for Sci. ¹	(0-3)	1	PHYS 309 Modern Physics ¹	(3-0)	3
PHYS 221 Optics and Thermal Physics ¹	(3-0)	3	PHYS 331 Theoretical Methods I ¹	(3-0)	3
MATH 221 Several Variable Calculus ¹	(4-0)	4	POLS 207 State & Local Govt.	(3-0)	3
MATH 308 Differential Equations ¹	(3-0)	3	Communication elective ²		3
		14			15

Junior Year

First Semester	(Th-Pr)	Cr	Second Semester	(Th-Pr)	Cr
PHYS 302 Adv. Mechanics I	(3-0)	3	PHYS 303 Adv. Mechanics II	(3-0)	3
PHYS 304 Adv. Elect. and Magn. I	(3-0)	3	PHYS 305 Adv. Elec. and Magn. II	(3-0)	3
PHYS 332 Theoretical Methods II	(3-0)	3	PHYS 327 Experimental Physics ³	(1-2)	2
Social and Behavioral Sciences elective ²		3	PHYS 328 Experimental Physics II ³	(1-1)	1
Creative Arts elective ²	(3-0)	3	PHYS 412 Quantum Mechanics I	(3-0)	3
			POLS 206 American Nat'l. Govt.	(3-0)	3
		15			15

Senior Year

First Semester	(Th-Pr)	Cr	Second Semester	(Th-Pr)	Cr
PHYS 408 Thermodynamics/Stat. Mech.	(3-0)	3	PHYS 401 Computational Physics	(3-0)	3
PHYS 414/415/416 QM II/Nuc.&Part./Sol. St.	(3-0)	3	PHYS 425 Physics Lab	(0-6)	2
PHYS 426 Physics Lab	(0-6)	2	PHYS 491/ASTR 491 Research ⁷	(0-6)	2
PHYS 491/ASTR 491 Research ⁷	(0-6)	2	Science or Technical elective ⁴		3
Astronomy/Physics elective ⁶		3	Electives ⁵		5
Electives ⁵		3			
		16			16

- NOTES: 1. A physics major must complete the foundation courses (ASTR 102, PHYS 101, 150, 206/226, 207/227, 221, 309, 331, MATH 171, 172, 221, 308) with a grade of 'C' or better and have a 2.0 cumulative GPR before taking non-foundation upper-level physics courses.
2. Any course in this category from the approved University Core Curriculum list of courses.
3. PHYS 327 is an approved Univ. Writing course. PHYS 328 is an approved Univ. Communication course.
4. Any upper-division course in geo/life/physical sciences, mathematics/statistics, or engineering (except 485/491).
5. Electives should be chosen in consultation with the student's advisor. Three hours must be in the area of International and Cultural Diversity, and three hours must be in the area of Cultural Discourse. These may be in addition to other University Core Curriculum courses, or, if a course in this category satisfies another area of the Core, it can be used to meet both requirements.
6. Chosen from ASTR 314, PHYS 414, 415, 416, 418, 419, 489, MATH 460, or any graduate offering in PHYS or ASTR.
7. A combination of ASTR/PHYS 291 and ASTR/PHYS 491 must equal 4 hours. Students with U1 or U2 classification should take PHYS/ASTR 291. Students with U3 or U4 classification should take PHYS/ASTR 491.
- * ARSC 101 or an equivalent is required for all freshmen students in their first semester. This is a 0-credit hour course graded S/U.

*Beginning in the Sophomore Year – Second Semester: PHYS courses are only offered once a year in the semester shown on this plan. *