

Physics Major (Teaching Focus) - New GE

Year	Autumn Semester	Credit hours	Comment		Spring Semester	Credit Hours	Comment
1	Physics 1270 ¹	5	Intro Physics I		Physics 1271 ¹	5	Intro Physics I
	Math 1151	5	Calculus I		Math 1152	5	Calculus II
	ASC 1100	1	Survey		CSE 1222 ²	3	C++ Programming
	World Language 1	4			World Language 2	4	
	GenEd 1201 ³	1	Launch Seminar				
	Total Hours	16			Total Hours	17	
2	Physics 2300	4	Mechanics I		Physics 2301	4	Mechanics II
	Physics 2095	1	Seminar		Physics 3700	3	Data Analysis Lab
	Math 2153	4	Calculus III		Math 2415 ⁴	3	Diff. Equations
	World Language 3	4			Chem 1220	5	Gen. Chem. II
	Chem 1210	5	Gen. Chem. I		Writing & Info Literacy	3	Gen Ed
	Total Hours	18			Total Hours	18	
3	Physics 5500	4	Quantum Mech.		Physics 5400	4	Electromagnetism
	Physics Elective ⁷	4	Required Elective		Physics 4700 ⁵	3	Electronics Lab
	Biology 1113	4	Gen. Biology		Historical & Cultural Stds	3	Gen Ed
	Literary, Visual, Performing Arts	3	Gen Ed		Social & Behavioral Sciences	3	Gen Ed
	Total Hours	15			Total Hours	13	
4	Astro 2291	3	Astrophysics I		Physics 5700	3	Senior Lab
	Geog 5900	3	Climatology		Earth Sci 1121	3	Dynamic Earth
	Thematic Pathways GE ⁸	3	Gen Ed		Thematic Pathways GE ⁸	3	Gen Ed
	Citizenship Theme GE ⁸	3	Gen Ed		Citizenship Theme GE ⁸	1	Reflection Seminar
	Race, Ethnicity, Gender Diversity	3	Gen Ed		GenEd 4001	3	Gen Ed
	Total Hours	15			Total Hours	13	

Courses in YELLOW are only offered in the term shown

¹ Students can take 1250-1251 or 1260-1261 (for students who started in Engineering Honors) in place of 1270-1271

² or CSE 1223 or CSE 1224 or Astronomy 1221

³ Students are required to complete the Launch Seminar within their first three semesters on campus

⁴ or 2174 or 2255 or 5520H. Linear Algebra (Math 2568) is recommended, but not required.

⁵ or Physics 5680 (Big Data Analytics) or Physics 5810 (Computational Physics)

⁶ Free electives are only required if a student needs to take extra courses in order to reach the minimum 121 credit hour requirement set by the College of Arts and Sciences.

⁷ Acceptable physics electives include Physics 3470, Physics 5261, Physics 5680 (if not taken as a lab), Physics 5810 (if not taken as a lab), and Physics 68xx

⁸ The requirement is to take either two 3-credit hour courses (as shown above) or one 4-credit hour course