

Physics Major (Applied Physics 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	
	Total Hours	15		Total Hours	17	
2	Physics 2300	4	Mechanics I	Physics 2301	4	Mechanics II
	Physics 2095	1	Seminar	Physics 3700	3	Data Ana. Lab
	Math 2153	4	Calculus III	Math 2415 ⁴	3	Diff. Equations
	World Language 3	4		Writing & Info Literacy	3	Gen Ed
	GenEd 1201 ³	1	Launch Seminar	Literary, Visual, Performing Arts	3	Gen Ed
	Total Hours	14		Total Hours	16	
3	Physics 5500	4	Quantum	Physics 5400	4	Electromagnetism
	Applied Elective ⁸	3	Min 15 hrs total	Physics Elective ⁷	4	Required Elective
	Historical & Cultural Stds	3	Gen Ed	Physics 4700 ⁵	3	Electronics Lab
	Citizenship Theme GE ⁹	3	Gen Ed	Social & Behavioral Sciences	3	Gen Ed
	Free Elective ⁶	4				
	Total Hours	17		Total Hours	14	
4	Applied Elective ⁸	3	Min 15 hrs total	Physics 5700	3	Senior Lab
	Applied Elective ⁸	3	Min 15 hrs total	Applied Elective ⁸	3	Min 15 hrs total
	Race, Ethnicity, Gender Diversity	3	Gen Ed	Applied Elective ⁸	3	Min 15 hrs total
	Thematic Pathways GE ⁹	3	Gen Ed	Thematic Pathways GE ⁹	3	Gen Ed
	Citizenship Theme GE ⁹	3	Gen Ed	GenEd 4001	1	Reflection Seminar
	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 5501, 5501H, 5401H, 3470, 5261, 5300, 5600, 5680 (if not taken as a lab), 5810 (if not taken as a lab), and 68xx

⁸ A list of Applied Electives is at <https://physics.osu.edu/applied-physics-option-electives>

⁹ The requirement is to take either two 3-credit hour courses (as shown above) or one 4-credit hour course