

Advanced Physics Focus (Legacy GE)

Year	Autumn Semester	Credit Hours	Comment		Spring Semester	Credit Hours	Comment	
1	Physics 1250 ¹	5	Intro Physics I		Physics 1251 ¹	5	Intro Physics II	
	Math 1151	5	Calculus I		Math 1152	5	Calculus II	
	ASC 1100	1	Survey		CSE 1222 ²	3	C++ Programming	
	Foreign Lang. 1	4			Foreign Lang. 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 ³	3	Diff. Equations	
	Foreign Lang. 3	4			Gen Ed	3		
	Gen Ed	3			Gen Ed	3		
	Total Hours	16				Total Hours	16	
3	Physics 5500	4	Quantum I		Physics 5501	4	Quantum II	
	Physics 4700 ⁴	3	Electronics Lab		Physics 5400	4	E&M	
	Gen Ed	3			Gen Ed	3		
	Gen Ed	3			Gen Ed	3		
	Free Elective ⁵	3						
	Total Hours	16				Total Hours	14	
4	Physics 5300	4	Theoretical Mech.		Physics 5600	4	Statistical Mech.	
	Physics 5700	3	Senior Lab		Physics Elective ⁶	4		
	Gen Ed	3			Gen Ed	3		
	Free Elective ⁵	4			Free Elective ⁵	3		
	Total Hours	14				Total Hours	14	

Courses in YELLOW are only offered during the term shown

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

² or CSE 1223 or CSE 1224 or Astronomy 1221

³ or 2174 or 2255 or 5520H. Linear Algebra (Math 2568) is recommended, but not required.

⁴ or Physics 5680 (Big Data Analytics) or Physics 5810 (Computational Physics)

⁵ 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.

⁶ 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