

Advanced Physics Option

Year	Autumn Semester	Credit hours	Comment		Spring Semester	Credit Hours	Comment	
1	Physics 1250	5	Intro Physics I		Physics 1251	5	Intro Physics I	
	Math 1151	5	Calculus I		Math 1152	5	Calculus II	
	MPS 1100	1	Survey		CSE 1222	3	C++ Programming	
	GE	3	GE # 1		GE	3	GE # 2	
	Semester Sum	14				Semester Sum	16	
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	Diff. Equations	
	GE	3	GE # 3		GE	3	GE # 5	
	GE	3	GE # 4		GE	3	GE # 6	
	Semester Sum	15				Semester Sum	16	
3	Physics 5500H	4	Quantum I		Physics 5501H*	4	Quantum II	
	Physics 5400H	4	E&M I		Physics 5401H*	4	E&M II	
	GE	3	GE # 7		Physics 4700**	3	Electronics Lab	
	GE	3	GE # 8		GE	3	GE # 9	
	Semester Sum	14				Semester Sum	15	
4	Physics 5600	4	Stat. Mech.		Physics 5300	4	Theoretical Mech.	
	GE	3	GE # 10		Physics 5700	3	Senior Lab	
	GE	3	GE # 11		GE	3	GE # 12	
	Free Elective	4			Free Elective	3		
					Free Elective	3		
	Semester Sum	14				Semester Sum	16	

Courses in YELLOW are only offered in the term shown

Lab Courses in BLUE can only be scheduled by Robin Patterson at least 8 months in advance

* If the honors sequence is not taken, students can substitute Physics 5501H and 5401H with other physics courses at the 2000 level or above.

** or Physics 6810 (Computational Physics) or Physics 3201H (Holography)

† or Math 2177 or 2174 or 2255 or 5520H. Linear Algebra (Math 2568) is recommended, but not required.