

### Advanced Physics Option

Year	Autumn Semester	Credit Hours	Comment	Spring Semester	Credit Hours	Comment
1	Physics 1270 <sup>1</sup>	5	Intro Physics I	Physics 1271 <sup>1</sup>	5	Intro Physics II
	Math 1151	5	Calculus I	Math 1152	5	Calculus II
	ASC 1100	1	Survey	CSE 1222 <sup>2</sup>	3	C++ Programming
	World Language 1	4		World Language 2	4	
	<b>Total Hours</b>	<b>15</b>		<b>Total Hours</b>	<b>17</b>	
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 <sup>4</sup>	3	Diff. Equations
	World Language 3	4		Writing & Info Literacy	3	Gen Ed
	GenEd 1201 <sup>3</sup>	1	Launch Seminar	Literary, Visual, Performing Arts	3	Gen Ed
	<b>Total Hours</b>	<b>14</b>		<b>Total Hours</b>	<b>16</b>	
3	Physics 5500	4	Quantum I	Physics 5501	4	Quantum II
	Physics 4700 <sup>5</sup>	3	Electronics Lab	Physics 5400	4	E&M
	Historical & Cultural Stds	3	Gen Ed	Social & Behavioral Sciences	3	Gen Ed
	Thematic Pathways #1	3	Gen Ed	Race, Ethnicity, Gender Diversity	3	Gen Ed
	<b>Total Hours</b>	<b>13</b>		<b>Total Hours</b>	<b>14</b>	
4	Physics 5600	4	Stat. Mech.	Physics 5300	4	Theoretical Mech.
	Physics 5700	3	Senior Lab	Physics Elective <sup>7</sup>	4	
	Thematic Pathways #2	3	Gen Ed	GenEd 4001	1	Reflection Seminar
	Thematic Pathways #3	3	Gen Ed	Free Elective <sup>6</sup>	4	
	Free Elective <sup>6</sup>	3		Thematic Pathways #4	3	Gen Ed
	<b>Total Hours</b>	<b>16</b>		<b>Total Hours</b>	<b>16</b>	

Courses in YELLOW are only offered during the term shown

Enrollment information can be found at [physics.osu.edu/controlled-access-courses](https://physics.osu.edu/controlled-access-courses)

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

<sup>2</sup> or CSE 1223 or CSE 1224 or Astronomy 1221

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

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

<sup>5</sup> or Physics 5680 (Big Data Analytics) or Physics 6810 (Computational Physics) or Physics 3201H (Holography)

<sup>6</sup> 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.

<sup>7</sup> Acceptable physics electives include Physics 3470, Physics 3201H (if not taken as a lab), Physics 5680 (if not taken as a lab), and Physics 68xx