

Advanced Physics Option (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 5600 | 4 | Stat. Mech. | | Physics 5300 | 4 | Theoretical 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

Enrollment information can be found at physics.osu.edu/controlled-access-courses

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

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 3201H (if not taken as a lab), Physics 5680 (if not taken as a lab), and Physics 68xx