The Minor in Physics provides students with the opportunity to build on their introductory physics courses with a coordinated set of electives, based on interests and career objectives, selected in consultation with a physics advisor.

Students may earn a minor in physics by completing a course of study consisting of 24 PHYS/ASTR units, at least 12 of which must be upper division, and no more than 4 units may be from astronomy courses. The program consists of a core of 2 required courses and 4-7 elective courses (16 units). After consultation with a physics advisor, each student should arrive at a suitable selection of “elective” courses that must include at least one of the following courses: PHYS 301, PHYS 302, PHYS 303, PHYS 323, PHYS 405, PHYS 408, or PHYS 412.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHYS 133 General Physics III</td>
<td>4</td>
</tr>
<tr>
<td>(Prerequisites: PHYS 141 or PHYS 131 and Math 142)</td>
<td></td>
</tr>
<tr>
<td>PHYS 211 Modern Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Physics/Astronomy Electives:**

- Minimum 12 units must be upper division (300-400 level)
- Must include at least one of the following courses:
  - PHYS 301 Thermal Physics (4)
  - PHYS 302 Classical Mechanics I (4)
  - PHYS 322 Vibrations and Waves (3)
  - PHYS 323 Optics (4)
  - PHYS 405 Quantum Mechanics I (4)
  - PHYS 408 Electromagnetic Fields and Waves I (4)
  - PHYS 412 Solid State Physics (3)

**Acceptable Courses:**

- PHYS 202 or PHYS 212 (4)
- Any upper division course with prefix PHYS
- Maximum of 4 units from ASTR 301, 302, 326, 444