DEPARTMENT OF PHYSICS
University of California, San Diego
http://www.physics.ucsd.edu

PHYSICS MAJOR, B.S. DEGREE (PY29)
Total Units: 109

Lower Division (52 units)

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units Yet to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 4A-B-C-D-E or Physics 2A-B-C-D&lt;sup&gt;1&lt;/sup&gt;</td>
<td>20 or 16</td>
</tr>
<tr>
<td>Physics 2CL and Physics 2DL</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 6A or a programming course&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4 or 8</td>
</tr>
<tr>
<td>Math 18&lt;sup&gt;3&lt;/sup&gt; and 20A-B-C-D-E</td>
<td>24</td>
</tr>
</tbody>
</table>

Upper Division (57 units)

1. Physics 100A-B, 105A, 110A, 120, 130A-B, 140A, and an additional laboratory course from the lab group: Physics 122, 124, 133, 164, 173 ................................................................. 37

2. Two courses from either the theoretical or experimental pre-grad-school sequence below ........................................ 8
   Theoretical pre-grad-school sequence: Physics 100C, 105B, 110B, 130C, 140B
   Experimental pre-grad-school sequence: Physics 100C, 110B, 124, 130C, 140B

3. Restricted Electives:
   Three upper-division (four-unit) or graduate courses in physics or mathematics (only one)<sup>4</sup> .......... 12

Elective Courses Taken: __________________________________________________________

MAJOR REGULATIONS

LIMIOT OF USE .................................................................................. A course that is listed in several areas cannot count towards more than one area and can satisfy only ONE of the major requirements.

DOUBLE MAJORS .............................................................................. A student with a double major must fulfill the separate requirements of each major, and the equivalent of at least ten upper-division courses (forty units) must be unique to each major. Courses taken in fulfillment of lower-division requirements may overlap to any degree.

GRADE REQUIREMENTS ..................................................................... A grade point average of 2.0 or higher in the upper-division major is required for graduation. Students must receive a grade of C– or better in all courses to be applied to the major. In exceptional cases, students with a grade point average of 2.5 or higher in the upper-division major may petition to have one grade of D accepted; approval is not guaranteed.

P/NP GRADING OPTION .................................................................... Not allowed for any courses applied to the major (the exception are courses completed via AP/IB and a single 4-unit Physics 199).

PREREQUISITES .............................................................................. Check the General Catalog for the prerequisites to all listed courses.

RESIDENCE REQUIREMENTS ............................................................. At least nine upper-division courses in the major while in residence at UC San Diego.

SUBSTITUTIONS ............................................................................. Permissible only by approved petition.

---

<sup>1</sup> The Physics 4 series is recommended, but the Physics 2 sequence is acceptable, in which case both Chemistry 6A and a programming course are required.

<sup>2</sup> Programming course options: CENG 15; CSE 5A, 7, 8A, 11, 12, 86; MAE 8; NANO 15

<sup>3</sup> The Linear Algebra course previously numbered Math 20F is acceptable.

<sup>4</sup> A max of one four-unit Physics 199 course can be applied. Courses in other science disciplines may be substituted by petition.

---

To see a 4-year, quarter-by-quarter plan for this degree: Go to http://plans.ucsd.edu/
Advising for current UC San Diego students: Go to http://vac.ucsd.edu/
Advising for prospective UC San Diego students: Email advising@physics.ucsd.edu