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

<table>
<thead>
<tr>
<th>PHYSICS MAJOR, B.S. DEGREE</th>
<th>NAME _____________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIALIZATION: MATERIALS (PY32)</td>
<td>Date ___________ Student ID ____________</td>
</tr>
<tr>
<td>Total Units: 125-129</td>
<td></td>
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**Lower Division (56-60 units)**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units Yet to Complete</th>
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<tbody>
<tr>
<td>Physics 4A-B-C-D-E or 2A-B-C-D¹</td>
<td>20 or 16</td>
</tr>
<tr>
<td>Physics 2CL and 2DL</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 6A-B²</td>
<td>8</td>
</tr>
<tr>
<td>Math 18³ and 20A-B-C-D-E</td>
<td>24</td>
</tr>
<tr>
<td>A programming course⁴</td>
<td>4</td>
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**Upper Division (69 units)**


2. Four restrictive electives to be chosen from Chemistry 120A-B; Mathematics 120A; ECE 103, 134, 135A-B, 136, 136L; MAE 110A, 160; or an upper division physics course | 16 |

**MAJOR REGULATIONS**

**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 (exceptions are courses completed via AP/IB, and Physics 199).

**PREREQUISITES**

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

**RESIDENCE REQUIREMENTS**

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

**SUBSTITUTIONS**

Permissible only by approved petition.

¹ The Physics 4 series is recommended.
² Students who anticipate taking Chemistry 120A-B as an upper-division elective are strongly advised to take Chemistry 6C.
³ The Linear Algebra course previously numbered Math 20F is acceptable.
⁴ Programming course options: CENG 15; CSE 5A, 7, 8A, 11, 12, 86; MAE 8; NANO 15

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