PHYSICS MAJOR, B.S. DEGREE
SPECIALIZATION: MATERIALS (PY32)
Total Units: 125-129

Lower Division (56-60 units)

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

LIMIT 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 (exceptions 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, especially courses outside of the department that apply to the restricted electives.

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

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

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<sup>1</sup> The Physics 4 series is recommended.

<sup>2</sup> The Linear Algebra course previously numbered Math 20F is acceptable.

<sup>3</sup> 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