### Lower Division (62-66 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 2A-B-C-D(^1)</td>
<td>20 or 16</td>
</tr>
<tr>
<td>Physics 2CL and 2DL</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 6A-B and 7L</td>
<td>12</td>
</tr>
<tr>
<td>Math 18(^2) and 20A-B-C-D-E</td>
<td>24</td>
</tr>
<tr>
<td>SIO 50</td>
<td>6</td>
</tr>
</tbody>
</table>

### Upper Division (69 units)

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

2. SIO 102, 103, 120 ........................................................................................................ 12

3. 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

4. Restricted electives:
   Three earth sciences courses in the SIO department (upper-division or graduate level) to be chosen with the approval of the SIO undergraduate program advisor ......................................................... 12

### Elective Courses Taken: _________________________________________________________

### 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.

**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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1 The Physics 4 series is strongly recommended.

2 The Linear Algebra course previously numbered Math 20F is acceptable.

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**To see a 4-year, quarter-by-quarter plan for this degree:** Go to [http://plans.ucsd.edu/](http://plans.ucsd.edu/)

**Advising for current UC San Diego students:** Go to [http://vac.ucsd.edu/](http://vac.ucsd.edu/)

**Advising for prospective UC San Diego students:** Email advising@physics.ucsd.edu