An initial consultation with a departmental advisor is essential before embarking on the Earth Science major.

To be admitted to full major status, students must complete the 5 designated courses from the pre-Earth Science major with a 2.3 or higher grade-point average.

### PREPARATION FOR THE MAJOR

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units Yet to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 3A-B (or 2A-B) and 4A-B and 6A-B</td>
<td>24-26</td>
</tr>
<tr>
<td>Chemistry 1A-1AL-1B-1BL-1C-1CL or 2 series</td>
<td>15</td>
</tr>
<tr>
<td>Earth 2 and one of either Earth 3 or Earth 4</td>
<td>8</td>
</tr>
<tr>
<td>Physics 1-2-3L-4-4L-5-5L (or Physics 21-22-23-3L-24-4L-25-5L)</td>
<td>20</td>
</tr>
<tr>
<td>One course from Computer Science 8 or 16</td>
<td>4</td>
</tr>
</tbody>
</table>

**Recommended:** Writing 109ST

### UPPER-DIVISION MAJOR

47-48 Units are required, distributed as follows:

**A.** Earth 104A ................................................................. 4
   Earth 105 ........................................................................... 4
   Earth 114 ............................................................................ 4
   Earth 134 ............................................................................ 4
   Earth 160 (2 units)................................................................ 2

**B.** Two courses from Earth 100, 103, 123, 131, 157 .................................................. 8 or 9
   Earth 133 or 135 ................................................................... 4
   Earth 136 ............................................................................ 5
   4 units of upper division of electives in Earth Science ....... 4

**C.** 8 Units of Upper Division courses from Math, Physics or Engineering: Recommended courses are:
   Math 104A-B, 122A-B, 124A-B, 144A-B; Physics 101, 102, 103, 104, 110A-B; ECE 130A-B .......... 8

**Recommended Electives:** Statistics, advanced math, Earth 18, 100, 102A, 102C, 103, 104B, 113, 122, 123, 124AA-ZZ, 126, 157, 173 (or Geography 116), 176, 199RA; Geography 176A-B

**Preparation for Earth and Planetary Science:** Students interested in careers or graduate study in Earth and Planetary Science are recommended to take Earth 123, 159 and Geography 110.

### MAJOR REGULATIONS

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

**P/NP GRADING OPTION** ............................................ Not allowed for any major courses (prep or UD major), including courses applied to the major from other departments, except for up to 3 units of Earth Science 160.

**SUBSTITUTIONS** .......................................................... In the major requirements permissible only by petition to the department chair and dean.

**RESIDENCE REQUIREMENTS** ..................................... At least 20 UD units in major while in residence at UCSB.

**G.P.A REQUIREMENTS** .................................................. At least 2.0 overall UC average in all upper-division major courses and all courses (Prep and UD) for the major.

**DOUBLE MAJORS** ......................................................... With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.