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>COURSE</th>
<th>UNITS YET TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth 2</td>
<td>4</td>
</tr>
<tr>
<td>Earth 3 or 4</td>
<td>4</td>
</tr>
<tr>
<td>Earth 18</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 1A-AL, 1B-BL, 1C-CL</td>
<td>1</td>
</tr>
<tr>
<td>Math 3A-B, 4A-B</td>
<td>16</td>
</tr>
<tr>
<td>Physics 1, 2, 3, 4 or Physics 6A-AL, 6B-BL, 6C-CL</td>
<td>12-14</td>
</tr>
</tbody>
</table>

Recommended: Math 6A-B, PSTAT 5A, Engineering 3, Writing 109ST.

**UPPER-DIVISION MAJOR**

54 UD 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. Earth 124I, or 124IG, or 126, or both 124G and 124T .......................................................... 4
   Earth 130 ................................................................. 4
   Earth 164B ................................................................. 4

   A minimum of 6 units of Senior Research Experience from the following list*
   Earth 118, 119, 182A, 182B, 195H, 196HA, 196HB, 196HC, 199 .................................................. 6-8

   *this requirement can also be met with an approved non-UCSB research or field experience

C. 16-18 units from the list to bring the total to 54 units: .......................................................... 16-18
   Earth 100, 102A, 102C, 103, 104B, 106, 111, 115, 122, 123, 124AA-ZZ, 126, 137, 157, 159, 168, 169, 173 (or Geography 116), 176; Geography 104, 110, 115A-B-C, 133, 163, 165; Chemistry 113A or other UCSB course approved through petition

**MAJOR REGULATIONS**

- **PREREQUISITES** .................................................. Check the General Catalog for the prerequisites to all listed courses.
- **P/NP GRADING OPTION** ........................................... Not allowed for any major course (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, including courses in excess of minimum requirements.
- **DOUBLE MAJORS** ............................................... With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors