EARTH SCIENCE MAJOR, B.S. – 2021-2022
CLIMATE & ENVIRONMENT EMPHASIS

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 TO COMPLETE</th>
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</thead>
<tbody>
<tr>
<td>Earth 2</td>
<td>4</td>
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<tr>
<td>Earth 3 or 4</td>
<td>4</td>
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<tr>
<td>Earth 18</td>
<td>1</td>
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<tr>
<td>Chemistry 1A-AL, 1B-BL, 1C-CL</td>
<td>15</td>
</tr>
<tr>
<td>Math 3A-B (or 2A-B) and 4A-B</td>
<td>16-18</td>
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<tr>
<td>Physics 1, 2, 3, 4 or Physics 6A-AL, 6B-BL, 6C-CL</td>
<td>12-14</td>
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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 ..................................................... 4
   Earth 130 ........................................................................ 4
   Earth 106 or 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 approved research or field experience from other institutions or UCSB departments

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 Earth 18 and 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