To be admitted to full major status, students must fulfill the pre-biology course and grade-point average requirements as described in the General Catalog. At minimum, they must complete twelve designated courses from the Preparation for the Major with a 2.0 or higher UC grade-point average.

Note: Hyphens indicate that an entire sequence must be completed as shown to fulfill an area requirement.
A single course can satisfy only one requirement.

**PREPARATION FOR THE MAJOR**

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Units Yet to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-AL-B-BL-C-CL (or 2 series)</td>
<td>12</td>
</tr>
<tr>
<td>MCDB 1A-1AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L</td>
<td>15</td>
</tr>
<tr>
<td>Chemistry 109A-B and 6A-B</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics 3A-B or 34A-B</td>
<td>8</td>
</tr>
<tr>
<td>One of the following: PSTAT 5A or EEMB 30 (Math 3C acceptable but not recommended)</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Physics 6A-AL-B-BL-C-CL</td>
<td>12</td>
</tr>
</tbody>
</table>

**UPPER-DIVISION MAJOR**

48 UD units required in biological sciences, distributed as follows: 48

Courses with an asterisk (*) are listed in more than one area, but they may be applied to only one area.

A. EEMB 142A-B-C

B. One course or course sequence from each of the following categories:

1. Genetics: EEMB 129 or MCDB 101A
2. Ecology: EEMB 120 or 179
3. Physiology: EEMB 143*-143L*, 154, 155, 156; MCDB 111, 114, 117
4. Evolution: EEMB 102, 108, 109 (or Geology 148), 113-113L, 131 (or Geology 121), 135, 136-136L (or Geology 111-111L), 138

C. Aquatic Biology: Three courses from the following, including at least two laboratory courses (underlined): EEMB 106, 112, 116, 134, 142AL, 142BL, 142CL, 143*, 143L*, 144, 144L, 147, 148, 148L, 149 (or MCD 149), 151, 152 (or Env S 152), 153, 159, 163, 165, 170

D. Physical Environment: One course from: Geography 104, 112, 116-116L (or Geology 173-173L), 134, 136, 158, 162A (or Environmental Studies 162A), 163, 165; Geology 161, 164A-B-C, 171; EEMB 174

E. Electives: Additional UD courses offered in EEMB or MCDB or from Areas B, C, and D above to bring the total UD units in the major to 48

Note: The following courses do not count toward upper-division major credit: EEMB 183; MCD 121, 182, 183, 184. In addition, no more than 8 units of the following courses combined will apply: EEMB 184-199; MCD 185-199. Finally, a minimum of the following units must be completed through courses within the EEMB Department.

**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.

**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 UD 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.