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 the 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.

**PREPARATION FOR THE MAJOR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units Yet To Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-H, 1B, 2-3-3L, and either EEMB 1BL or 17A</td>
<td>12</td>
</tr>
<tr>
<td>(Transfer students must consult the advisor regarding selected topics to be covered in Z courses.)</td>
<td></td>
</tr>
<tr>
<td>Chemistry 6AL-6BL (or 6BH) and 109A-B-C</td>
<td>18</td>
</tr>
<tr>
<td>Mathematics 3A-B or 34A-B</td>
<td>8</td>
</tr>
<tr>
<td>One course from: PSTAT 5LS or 5A or Math 3C or Math 4A</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Physics 6A-AL-B-CL</td>
<td>12</td>
</tr>
</tbody>
</table>

**UPPER DIVISION MAJOR**

48 UD units required, distributed as follows: ................................. 48

A minimum of 32 UD units must be completed through courses within the MCDB department.

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

**A. Genetics:** MCDB 101A-B .................................................................................. ..............................

**B. Biochemistry:** MCDB 108A (or W 108A) and 108B-C ........................................... ..............................

**C. Cell Biology:** MCDB 103 ................................................................................... ..............................

**D. Developmental Biology:** Select two courses from: MCDB 112, 118, 153 ......................... ..............................

**E1. One course from MCDB 103L*, 112L* ........................................................................ ..............................

**E2. One course or course sequence from:** MCDB 103L*, 109L, 112L*, 126A-AL, 126B-BL, 132-132L, 133-133L, 140L, 161L ...................................................... ..............................

**F. Electives:** Additional UD courses in MCDB and EEMB or Chemistry 161 to bring unit total to 48 .......... ..............................

**Note:** The following courses do not count toward upper-division major credit:
EEMB 181, 182, 183, 184, 189; MCDB 121, 182, 183, 184, 194MD, 194KK

**In addition, no more than 8 units of the following courses combined will apply to the major:**
EEMB 185-199; MCDB 185-199. BMSE may be accepted by petition only.

**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 up to 8 units of courses that do not allow letter grades.

**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.

**GPA 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.