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.

**PREPARATION FOR THE MAJOR**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>UNITS YET TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-AL-B-BL-C-CL (or 2A-AC-B-BC-C-CC)</td>
<td>15</td>
</tr>
<tr>
<td>MCDB 1A-1AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L</td>
<td>16</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>Math 3A-B-C or Math 3A-B and 4A and 6A</td>
<td>12 or 16</td>
</tr>
<tr>
<td>Physics 6AL-BL-BC-CL</td>
<td>12</td>
</tr>
</tbody>
</table>

**UPPER-DIVISION MAJOR**

48 UD units required, distributed as follows: 48

A. Genetics: MCDB 101A-B

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

C. Biochemistry Lab: MCDB 109L

D. Physical Chemistry: Chemistry 112A (recommended) or 113A; and MCDB 123

E. Electives: courses from the following list to bring the total UD units for the major to 48:


No more than 8 units of the following courses combined will apply to the major: MCDB 185-199. BMSE may be accepted by petition only.

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

Courses taken: ________________________________

**MAJOR REGULATIONS**

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

**P/NP GRADING OPTION** Not allowed for major courses (prep or UD), 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.

**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.