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 grade-point average.

**Note:** Hyphens indicate an entire sequence must be completed to fulfill an area requirement.

### Preparation for the Major

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units Yet to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-B-C plus 1AL or 1AC, 1BL or 1BC, 1CL or 1CC (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>(Transfer students must consult the advisor regarding selected topics to be covered in Z courses.)</td>
<td></td>
</tr>
<tr>
<td>Chemistry 6A-B and 109A-B-C</td>
<td>16</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 or Math 3C</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

49 UD units required, distributed as follows: 49

I. **Core Courses:**

   A. Genetics: MCDB 101A-B
   B. General Microbiology: MCDB 131-131L
   C. Bacterial Pathogenesis: MCDB 132-132L
   D. Biochemistry: MCDB 108A-B-C
   E. Virology: MCDB 134
   F. Immunobiology: MCDB 133 (133L strongly recommended)
   G. Cellular Growth and Oncogenesis: MCDB 135

II. Additional units from the following to bring the total in the UD major to 49: MCDB 108AH, 108AL, 133L, 138, 139, 140L, 199 (no more than 2 units); EEMB 111, 134

**NOTE:** Students are encouraged to select their elective courses from within one of the tracks below:

A. General Microbiology: MCDB 108AL, 133L, 137, 138; EEMB 134
B. Bio-Medical Sciences: MCDB 108AL, 133L, 138, 139; EEMB 111
C. Genetic Engineering: MCDB 108AL, 133L, 140L

### 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 average in a) all UD major courses; and b) all major courses (Prep and UD) while in UC.

**Double Majors:** With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.

6/19/02