MICROBIOLOGY MAJOR, B.S. – 2008-2009

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 an entire sequence must be completed to fulfill an area requirement.

**PREPARATION FOR THE MAJOR**

<table>
<thead>
<tr>
<th>Course/Sequence</th>
<th>Units Yet To Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-AL-B-CL-C (or 2 series)</td>
<td>15</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>
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<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 of the following: PSTAT 5A or EEMB 30 or Math 3C</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Physics 6A-AL-B-CL-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) ......................................

II. Additional units from the following to bring the total in the UD major to 49: MCDB 108AH, 108AL, 133H, 133L, 135,138, 139, 140L, 197, 199 (a maximum of 2 units of MCDB 197 and 199 combined can be applied); EEMB 111, 134, 144 .................................................................

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

A. General Microbiology: MCDB 108AL, 133L, 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 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.