### BIOLOGICAL SCIENCES MAJOR, B.S. – 2012-2013

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 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-L-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>
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<tr>
<td>Chemistry 6A-6BL (or 6BH) and 109A-B</td>
<td>14</td>
</tr>
<tr>
<td>Mathematics 3A-B or 34A-B</td>
<td>8</td>
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<tr>
<td>One of the following: PSTAT 5A or PSTAT 5LS or Math 3C or Math 4A</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Physics 6A-AL-B-L-C-CL</td>
<td>12</td>
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</tbody>
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#### UPPER-DIVISION MAJOR

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

**A. Genetics:** One course sequence from: MCDB 101A-B (MCDB concentration) or EEMB 129-130 or EEMB 101*-129 (EEMB concentration) .................................................................

**B. One course or course sequence from each of the following. Note: Courses with an asterisk (*) are listed in more than one area but they may be applied to only one area.**

1. Physiology: MCDB 111, 126A, 132, 151*; EEMB 141, 143, 151, 154, 156, 157 ............................................


3. Biochemistry and Molecular Biology: MCDB 108A (or W 108A), 110, 126B, 126C, 133*, 134; EEMB 164 ............................................

4. Ecology: EEMB 119, 120, 128, 140, 142A, 148, 159, 166, 167, 171 (or Env S 171), either 172 or 179 (not both) ............................................


6. Diversity of Form and Function: EEMB 106, 107, 111, 112, 113-113L*, 116, 127*, 134, 144-144L, 163; MCDB 131, 139 ............................................

7. Laboratory: Either one of the underlined courses from sections 1-6 above or one of the following: MCDB 103L, 109L, 112L, 126AL, 126BL, 131L, 132L, 133L, 140L, 161L; EEMB 107L, 120AL, 127L, 140L, 142AL, 142BL, 142CL, 143L, 164L, 170 ............................................

**C. Electives:** Additional upper-division courses in EEMB and MCDB to bring the total to 48 units ............................................

**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.

#### 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.