### BIOLOGICAL SCIENCES MAJOR, B.S. – 2017-2018

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 and Pre-Biological Sciences Major Sheet. At minimum, they must complete twelve designated courses from the Preparation for the Major with a 2.0 or higher UC grade-point average. Grades earned must meet grade prerequisites for the full major.

**Notes:** 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 Description</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>
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<tr>
<td>Chemistry 6AL-6BL (or 6BH) and 109A-B or 109AH-BH</td>
<td>14</td>
</tr>
<tr>
<td>Mathematics 3A-B or 34A-B</td>
<td>8</td>
</tr>
<tr>
<td>One of the following: PSTAT 5A or PSTAT 5LS or Math 4A</td>
<td>4 or 5</td>
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<tr>
<td>Physics 6AL-AL-B-C-CL</td>
<td>12</td>
</tr>
</tbody>
</table>

#### UPPER-DIVISION MAJOR

48 UD units required, distributed as follows

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

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

- **B.** One course or course sequence from each of the following:

  1. Physiology: MCDB 111, 126A, 132, 151*; EEMB 126, 143, 154, 156, 157, 157C, 165
  4. Eclogy: EEMB 129, 120, 128, 140, 142A, 147, 148, 153, 155CC, 159, 168, 169, 171 (or Env S 171), 179
  5. Evolution: EEMB 101*, 103, 108, 109 (or Earth 148), 113-113L*, 127*, 131 (or Earth 121), 136-136L (or Earth 111-111L), 137 (or Earth 141), 138, 180
  7. Laboratory: Either one of the underlined courses from sections 1-6 above or one of the following: MCDB 101L, 103L, 109L, 126AL, 126BL, 131L, 132L, 133L, 140L, 161L; EEMB 107L, 127L, 142AL, 142BL, 142CL, 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, 188; MCDB 121, 183, 184, 194KF, 194KK, 194MD. 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.