BIOLOGICAL SCIENCES MAJOR, B.A. – 2019-2020

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.

Note: Hyphens indicate that an entire sequence must be completed as shown 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-AL-BL-C-CL or 2A-AC-BL-C-CC</td>
<td>15</td>
</tr>
<tr>
<td>MCDB 1A-B, EEMB 2-3, and either (MCDB 1AL and MCDB 1BL or EEMB 2L, and EEMB 3L) or (MCDB 1LL and EEMB 2LL)</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 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 5LS or PSTAT 5A or Math 4A</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Physics 6A-AL-BL</td>
<td>8</td>
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</table>

### UPPER-DIVISION MAJOR

36 UD units: ............................................................................................................................................................. 36

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

One course or course sequence is required in each of the areas below (A through F)

A. Genetics: one course from: MCDB 101A (MCDB 101B is strongly recommended) or EEMB 129

B. Physiology: one course from: MCDB 111, 151*; EEMB 126, 143, 154, 156, 157B, 157C, 165

C. Developmental and Cell Biology or Biochemistry and Molecular Biology: one course from: MCDB 103, 108A (or W 108A), 110, 112, 118, 133, 134, 135, 146, 151*, 152, 153

D. Ecology or Evolution: one course from: EEMB 101, 102, 108*, 109 (or Earth 148), 113-113L*, 119, 120, 127*, 128, 130, 131 (or Earth 121), 136-136L (or Earth 111-111L), 137 (or Earth 141), 138, 140, 142A, 147, 148, 153, 155CC, 159, 168, 169, 171 (or Env S 171), 179, 180

E. Biodiversity and Systematics: one course from: EEMB 103A, 106, 107, 108*, 111, 112, 113-113L*, 116, 118, 127*, 133 (or Env S 133), 145, 150A, 163; MCDB 131, 139

F. Electives: Additional UD courses offered in EEMB and MCDB to bring the total to 36 units

Note: The following courses do not count toward upper-division major credit: EEMB 182, 183, 184, 189; MCDB 183, 184, 194KF. In addition, no more than 4 units of the following courses combined will apply: 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 4 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.

DOUBLE MAJORS

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