## BIOCHEMISTRY–MOLECULAR BIOLOGY MAJOR, B.S. – 2021-2022

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.

### PREPARATION FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units 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-B, EEMB 2-3 and either (MCDB 1LL and EEMB 2LL) or (MCDB 1AL, and MCDB 1BL or EEMB 2L, and EEMB 3L)</td>
<td>16</td>
</tr>
<tr>
<td>Chemistry 6AL and 109A-B-C or 109AH-BH-CH</td>
<td>15</td>
</tr>
<tr>
<td>Math 3A-B and 4A and 6A</td>
<td>16</td>
</tr>
<tr>
<td>Physics 6A-AL-B-BL-C-CL</td>
<td>12</td>
</tr>
</tbody>
</table>

### UPPER-DIVISION MAJOR

48 UD units required, distributed as follows: 48 units

A. Genetics: MCDB 101A-B

B. Biochemistry: MCDB 108A (or W 108A) and 108B-C

C. Biochemistry-Molecular Biology Lab: MCDB 109L or 140L

D. Physical Chemistry: Chemistry 112A (recommended) or 113A; and MCDB 123

E. Electives: courses from the following list to bring the total UD units for the major to 48


No more than 8 units of the following courses combined will apply to the major: MCDB 185-199.

BMSE may be accepted by petition only.

A minimum of 32 UD units must be completed through courses within the MCDB department.

Courses taken:

### 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.

**DOUBLE MAJORS**

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