BIOCHEMISTRY–MOLECULAR BIOLOGY MAJOR, B.S. – 2023-2024

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 course sequence or combination must be completed as shown to fulfill an area requirement.

**PREPARATION FOR THE MAJOR**

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Units to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-AL-BL-C-CL (or 2A-AC-B-BC-C-CC)</td>
<td>15</td>
</tr>
<tr>
<td>MCDB 1A-B, EEMB 2-3, MCDB 1LL and EEMB 2LL</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-AL-BL-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: 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.

**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.

**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.