Microbial Biology | Sample Schedules

Before you start scheduling your first semester of classes, refer to the [MB Major Overview](#) and [MB Major Snapshot](#).

- This is a sample program plan. This plan assumes that the student has completed the Entry Level Writing and American History and Institutions requirements prior to admission.
- Students are strongly advised to work with an academic advisor to determine a personal program plan. Your program plan will differ depending on previous credit received, your course schedule, and available offerings.

### 4 Year Plan | Freshmen & Sophomore Year (if starting with CHEM 1A/L)

<table>
<thead>
<tr>
<th>1st Year Fall</th>
<th>Units</th>
<th>1st Year Spring</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A and CHEM 1AL</td>
<td>3 + 2</td>
<td>CHEM 3A and CHEM 3AL</td>
<td>3 + 2</td>
</tr>
<tr>
<td>MATH 1A/16A/10A*</td>
<td>3-4</td>
<td>MATH 1A/16A/10B*</td>
<td>3-4</td>
</tr>
<tr>
<td>1st half of Reading &amp; Comprehension</td>
<td>4</td>
<td>2nd half of Reading &amp; Comprehension</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Breadth Course</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>12-13</strong></td>
<td><strong>Total Units</strong></td>
<td><strong>12+</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2nd Year Fall</th>
<th>Units</th>
<th>2nd Year Spring</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3B and CHEM 3BL</td>
<td>3 + 2</td>
<td>BIO 1A and BIO 1AL</td>
<td>3 + 2</td>
</tr>
<tr>
<td>BIO 1B</td>
<td>4</td>
<td>PHYSICS 8A</td>
<td>4</td>
</tr>
<tr>
<td>Breadth Course</td>
<td>3-4</td>
<td>American Cultures</td>
<td>3-4</td>
</tr>
<tr>
<td>STAT 2*</td>
<td>4</td>
<td>Breadth Course</td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>12+</strong></td>
<td><strong>Total Units</strong></td>
<td><strong>12+</strong></td>
</tr>
</tbody>
</table>

*Only need Stats if doing Math 16A, B or Math 1A, 1B

**Remaining lower division requirements:**
- Any Remaining Humanities or Social Science breadth units (need 15 total)
- Physics 8B (if premed, not required for the major)

### 4 Year Plan | Freshmen & Sophomore Year (if starting with CHEM 32)

<table>
<thead>
<tr>
<th>1st Year Fall</th>
<th>Units</th>
<th>1st Year Spring</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 32</td>
<td>4</td>
<td>CHEM 1A and CHEM 1AL</td>
<td>3 + 2</td>
</tr>
<tr>
<td>MATH 1A/16A/10A*</td>
<td>3-4</td>
<td>MATH 1B/16B/10B*</td>
<td>3-4</td>
</tr>
<tr>
<td>1st half of Reading &amp; Comprehension</td>
<td>4</td>
<td>2nd half of Reading &amp; Comprehension</td>
<td>4</td>
</tr>
<tr>
<td>American Cultures/ Breadth Course</td>
<td>3-4</td>
<td>Breadth Course</td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>12+</strong></td>
<td><strong>Total Units</strong></td>
<td><strong>12+</strong></td>
</tr>
</tbody>
</table>
### 2nd Year Plan

**2nd Year Fall**
- CHEM 3A and CHEM 3AL: 3 + 2 units
- BIO 1B: 4 units
- Breadth Course: 3-4 units
- STAT 2*: 4 units

**Total Units: 12+**

**2nd Year Spring**
- CHEM 3B and CHEM 3BL**: 3 + 2 units
- BIO 1A and BIO 1AL**: 3 + 2 units
- American Cultures/ Breadth Course: 3-4 units
- Breadth Course: 3-4 units

**Total Units: 12+**

*Only need Stats if doing Math 16A,B or Math 1A,1B

**This course combination is difficult. If able, move Chem 3B/L or Bio 1A/L to summer before junior year.

### Remaining Lower Division Requirements:
- Any remaining Humanities or Social Science breadth units (need 15 total)
- Physics 8A
- Physics 8B (if premed, not required for the major)

### 2 Year Plan (Transfer) | Junior & Senior Year**

*Must add Physics 8A if not completed prior to transferring.

**3rd Year Fall**
- PLANTBI/ MCELLBI C112 *(offered Fall only)*: 4 units
- STAT 2 (if not completed prior): 3-4 units
- American Cultures (if not completed prior): 3-4 units
- MB Concentration: 3-4 units

**Total Units: 13+**

**3rd Year Spring**
- MCELLBI 102/ C100A: 4 units
- PLANTBI/ MCELLBI C112L: 2 units
- MB Concentration: 2-4 units
- Elective(s): 3-4 units

**Total Units: 13+**

**4th Year Fall**
- MB Core Elective: 3-4 units
- MB Concentration: 3-4 units
- MB Concentration: 3-4 units
- Elective(s): 1-4 units

**Total Units: 13+**

**4th Year Spring**
- PMB C148 *(offered Spring only)*: 4 units
- MB Core Elective: 3-4 units
- Elective(s): 5-6 units

**Total Units: 13+**

Updated June 2021