# MICROBIOLOGY/CELL & MOLECULAR BIOLOGY, BS

## Example Plan of Study

### Finish in Four Plan of Study

The plan below is an example of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1513</td>
<td>College Algebra (A)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>MICR 1211</td>
<td>First Year Microbiology Laboratory Experience</td>
<td>1</td>
</tr>
<tr>
<td>General Education courses</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1604 or PBIO 1404</td>
<td>Plant Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>General Education courses</td>
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<td>7</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Sophomore</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>CHEM 1515</td>
<td>Chemistry II (LN)</td>
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<tr>
<td>MICR 2123</td>
<td>Introduction to Microbiology</td>
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<tr>
<td>MICR 2132</td>
<td>Introduction to Microbiology Laboratory</td>
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</tr>
<tr>
<td>General Education courses</td>
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<td>5</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>CHEM 3013 or CHEM 3053</td>
<td>Survey of Organic Chemistry or Organic Chemistry</td>
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<tr>
<td>MICR 3012</td>
<td>Survey of Organic Chemistry Laboratory (If taking CHEM 3013)</td>
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<tr>
<td><strong>Junior</strong></td>
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<td><strong>Fall</strong></td>
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<tr>
<td>BIOC 3023 or ANSI 3423</td>
<td>General or Animal Genetics</td>
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<td>MICR 3223</td>
<td>Advanced Microbiology</td>
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<tr>
<td>CHEM 3153 or BIOC 3653</td>
<td>Organic ChemistryII or Survey of Biochemistry</td>
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<tr>
<td>MICR 4012</td>
<td>Molecular Microbiology Laboratory (Fall only)</td>
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</tr>
<tr>
<td>College and Elective courses</td>
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<td>4</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
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<td>15</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>BIOC 3653 or BIOC 3713</td>
<td>Survey of Biochemistry or Biochemistry</td>
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<td>PHYS 1114</td>
<td>College Physics I (LN)</td>
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<td>MICR 3253</td>
<td>Immunology (Spring only)</td>
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<td>Upper-division MICR course or CHEM 3112</td>
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<tr>
<td>College and Elective courses</td>
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<td>3</td>
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<tr>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Senior</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>Upper-Division MICR course or BIOC 3813</td>
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<tr>
<td>MICR 4253</td>
<td>Concepts in Medical Genetics (Fall only)</td>
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<tr>
<td>Upper-division MICR course</td>
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<tr>
<td>College and Elective courses</td>
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<td>4</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>15</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>MICR 4112</td>
<td>Molecular Microbiology Capstone</td>
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<tr>
<td>MICR 4233</td>
<td>Advanced Cell and Molecular Biology</td>
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</table>
Microbiology/Cell & Molecular Biology, BS

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<td>Hours</td>
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</tr>
<tr>
<td>Total Hours</td>
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</tr>
</tbody>
</table>

1. Speak with academic advisor about saving General Education electives and Humanities (H) for Upper-division courses with International (I) and Diversity (D) dimensions.