# BIOCHEMISTRY MAJOR

## Four Year Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>CHEM 125</td>
<td>Introduction to Chemical Structure and Properties</td>
<td>4</td>
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<tr>
<td>INTG 100</td>
<td>Foundations</td>
<td>4</td>
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<tr>
<td>LANG</td>
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<tr>
<td>BIOL 101</td>
<td>Foundations of Biology</td>
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<tr>
<td>CHEM 201</td>
<td>Purification and Separation Lab I</td>
<td>1</td>
</tr>
<tr>
<td>INTG 105</td>
<td>College Success</td>
<td>1</td>
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<tr>
<td><strong>Hours</strong></td>
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<td>18</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>CHEM 250</td>
<td>Reactions of Nucleophiles and Electrophiles (Reactivity 1)</td>
<td>4</td>
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<tr>
<td>XXXX XXX</td>
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<td>LANG</td>
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<tr>
<td>CHEM 202</td>
<td>Purification and Chromatography Lab II</td>
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<td><strong>Hours</strong></td>
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<td>17</td>
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| **Second Year** | | |
| **Fall** | | |
| CHEM 251 | Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2) | 4 |
| THEO 1XX | | 4 |
| PHYS 105 or PHYS 191 | Physics for the Life Sciences I or Foundations of Physics I | 4 |
| LANG | | 4 |
| CHEM 203 | Synthesis Lab | 1 |
| **Hours** | | 17 |
| **Spring** | | |
| CHEM 255 | Macroscopic Chemical Analysis | 4 |
| PHYS 106 or PHYS 200 | Physics for the Life Sciences II or Foundations of Physics II | 4 |
| MATH 119 | Calculus I | 4 |
| XXXX XXX | | 4 |
| CHEM 205 | Chemical Measurement Lab | 1 |
| **Hours** | | 17 |

| **Third Year** | | |
| **Fall** | | |
| CHEM 315 | Advanced Reactions (Reactivity 3) | 4 |
| BIOL 317 | Biochemistry | 4 |
| BIOL 3XX or CHEM 3XX | | 4 |
| MATH 120 or MATH 124 | Calculus II or Probability and Statistical Inference | 4 |
| **Hours** | | 16 |
| **Spring** | | |
| XXXX XXX | | 4 |
| XXXX XXX | | 4 |
| XXXX XXX | | 4 |
| **Hours** | | 12 |

| **Fourth Year** | | |
| **Fall** | | |
| THEO 3XX | | 4 |
| XXXX XXX | | 4 |
| XXXX XXX | | 4 |
| BIOL 311 | Cell Biology | 4 |
| **Hours** | | 16 |
| **Spring** | | |
| INTG 300 | Learning Integrations | 4 |

| BCHM 375 | Biochemistry Capstone | 2 |
| BCHM XXX | | 0 |
| XXXX XXX | | 4 |
| BIOL 318 | Molecular Genetics | 4 |
| **Total Hours** | | 127 |