**B.S. Biochemistry and Molecular Biology Degree (SMBC)**

*This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.*

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CH 1150 University Chemistry I</td>
<td>3</td>
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<tr>
<td>CH 1161 University Chemistry Lab I</td>
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<tr>
<td>CH 1153 University Chemistry I Recitation</td>
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<tr>
<td>CH 1130 PFDC 1: Orientation</td>
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<tr>
<td>BL 1400 Principles of Biology AND</td>
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<tr>
<td>BL 1410 Principles of Biology Laboratory</td>
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<tr>
<td>MA 1160 Calculus with Technology I</td>
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<tr>
<td>UN 1015 Composition (OR UN 1025 Global Issues)</td>
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**Second Year**

<table>
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<tr>
<td>CH 2130 PFDC 2: Career Planning</td>
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<tr>
<td>CH 2430 Mechanistic Organic Chemistry</td>
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<td>CH 2411 Organic Chemistry Lab I</td>
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<tr>
<td>PH 1200 Physics by Inquiry II</td>
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<tr>
<td>PH 2200 University Physics II – Electricity &amp; Magnetism</td>
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<td>MA2320 – Elementary Linear Algebra</td>
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<td>General Education: Critical &amp; Creative Thinking</td>
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**Third Year**

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<tr>
<td>CH 3510 Physical Chemistry I</td>
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<tr>
<td>CH 3511 Physical Chemistry Lab I</td>
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<td>CH 4710 Biomolecular Chemistry I OR CH 4310 Inorganic Chemistry</td>
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<td>BL3210 Microbiology</td>
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<td>BL 3300 Genomics</td>
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**Fourth Year**

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<tr>
<td>CH 4222 Bioanalytical Chemistry</td>
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<tr>
<td>BL 4030 Molecular Biology</td>
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<tr>
<td>CH 4995 Undergraduate Research in Biochemistry (see note)</td>
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<tr>
<td>CH 4130 PFDC 4: Senior Seminar</td>
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<td>Free Electives</td>
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**Grand Total = 128 Credits**

**Notes**

Concentration Requirements: Plan features 6 credits of CH 4995. Alternative option is to take BL 4840 AND 3 credits of CH or BL 3000-4000 course(s). The plan features all credits of CH 4995 Undergraduate Research in Biochemistry in one term, but these credits may be split across semesters as student and advisor deem appropriate.

3 Units of co-curricular activities are required.