A major in Biological Chemistry must include the cell and molecular biology, chemistry, physics and mathematics courses in the lists under Requirements. At least two elective courses, selected from Requirements list, also must be included. In addition, an appropriate six-credit special project integrating the student's biological and chemical studies is required.

Because of the interdisciplinary nature of the Biological Chemistry major, students in this program may not minor in chemistry, cell and molecular biology, or ecology and evolutionary biology.

### Requirements

<table>
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<tr>
<th>Course ID</th>
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<th>Credits</th>
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<td><strong>Cell and Molecular Biology Required Courses</strong></td>
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<td>CELL 1010</td>
<td>Intro to Cell &amp; Molec Biology</td>
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<td>CELL 4220</td>
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<td><strong>Chemistry Required Courses</strong></td>
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<td>CHEM 1080 &amp; CHEM 1085</td>
<td>General Chemistry II and General Chemistry Lab II</td>
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<tr>
<td>CHEM 3120 &amp; CHEM 3125</td>
<td>Physical Chemistry II and Physical Chemistry Lab II</td>
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<td>Intro To Biochemistry and Intro to Biochem Lab</td>
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<td>CHEM 3840</td>
<td>Intermediate Biochem</td>
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<td>Organic Chemistry I: Deep-learning and Organic Chemistry I Laboratory: Deep-learning</td>
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<td>CHEM 2440 &amp; CHEM 2445</td>
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<td>PHYS 1320</td>
<td>General Physics II</td>
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<td>MATH 1220</td>
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<td>MATH 2210</td>
<td>Calculus III</td>
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<td>Foundations of Pharmacology</td>
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<td>CELL 3210</td>
<td>Physiology</td>
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<td>CELL 3310</td>
<td>Cellular Neuroscience</td>
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<td>Systems Neuroscience</td>
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<td>CELL 4130</td>
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<td>CENG 4710</td>
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<td>CHEM 3310</td>
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<td>Stats For Scientists</td>
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<td>NSCI 6530</td>
<td>Psychopharmacology</td>
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<td>PHYS 3210</td>
<td>Molec Biophysics &amp; Polymer Phy</td>
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**Independent Studies**

Select one year (research and/or honors thesis) of the following: 6

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<td>BMEN 4902</td>
<td>SR Research Prof Experience I</td>
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**Total Credit Hours** 84

1. MATH 1310 Consolidated Calculus (4 c.h.) Consolidated Calculus may be taken in lieu of MATH 1210 Calculus I (4 c.h.) and MATH 1220 Calculus II (4 c.h.).