**Departmental/Program Major Courses (43-46 credits)**  
*A 2.0 average is required in these courses*

<table>
<thead>
<tr>
<th>Required Major Courses (39 credits)</th>
</tr>
</thead>
</table>
| (2) BIOL 12100 Biology I: Diversity, Ecology and Behavior  
  *(satisfies Science, Technology & Society Selective for core)* |
| (3) BIOL 13100 Biology II: Development, Structure, and Function |
| (2) BIOL 13500 First Year Biology Lab or BIOL 14501 First Yr Lab Neuro Res Project or IT 22600 Biotechnology Lab I |
| (3) BIOL 23100 Biology III: Cell Structure & Function |
| (2) BIOL 23200 Lab in Cell Structure & Function |
| (3) BIOL 24100 Biology IV: Genetics & Molecular Biology |
| (2) BIOL 24200 Lab in Genetics & Molecular Biology |
| (2) BIOL 28600 Intro to Ecology & Evolution |
| (3) BIOL 39500 Macromolecules  
  *(Req #9)* |
| (3) BIOL 41500 Intro to Molecular Biology  
  *(Req #10)* |
| (3) BIOL 42000 Eukaryotic Cell Biology  
  *(Req #11)* |
| (2) BIOL 44201 Introductory Module: Protein Expression  
  *(Req #14)* |
| (3) BIOL 59500 Methods & Measurements in Physical Biochemistry  
  *(Req #12)* |
| (3) BCHM 56100 General Biochemistry I  
  *(Req #16)* |
| (3) BCHM 56200 General Biochemistry II  
  *(Req #17)* |

**Major Selectives - Select course for each requirement (4-7 credits)**

| 1-2 | Biology Lab Selective  
  *(Req #15)* |
| 1-2 | Biology Lab Selective  
  *(Req #15)* |
| 2-3 | Biology Selective  
  *(Req #13)* |

**Other Departmental/Program Course Requirements (71-84 credits)**

| (5) CHM 12901 General Chemistry |
| (4) Organic CHM 1 Selective |
| (4) Organic CHM 2 Selective |
| (0-4) Analytical Chemistry Selective -- Select from BCHM 22100 or CHM 22400 or CHM 32100 |
| (0-6) Physical Chemistry Selective -- Select from CHM 37200 or [CHM 37300 and 37400] |
| (4-6) Biochemistry Honors Selective -- Select from CHM 32100 or [CHM 37300 and 37400] |
| (4) PHYS 17200  
  *(satisfies Science Selective for core)* |
| (4) PHYS 27200 |
| (4-5) Calculus 1 Selective – Select from MA 16100 or 16500  
  *(satisfies Quantitative Reasoning Selective for core)* |
| (4-5) Calculus 2 Selective – Select from MA 16200, 16600 or 17300 |
| (3) STAT 50300 Statistical Methods for Biology |
| (3-4) Computer Science Selective |
| (3-4) ENGL 10600 or 10800  
  *(satisfies Written Communication for core); (satisfies Information Literacy Selective for core)* |
| (3) Language & Culture 1 Selective |
| (3) Language & Culture 2 Selective |
| (3) Language & Culture 3 Selective |
| (3) COM 21700  
  *(satisfies Oral Communication for core)* |
| (3) General Education 1 Selective  
  *(satisfies Human Culture Behavioral/Social Science for core)* |
| (3) General Education 2 Selective  
  *(satisfies Human Cultures Humanities for core)* |
| (3) General Education 3 Selective |
| (0-3) Teambuilding & Collaboration Selective |
| (3) Great Issues Selective |
| (1-3) Multidisciplinary Selective |

**Electives (0-6 credits)**

| ( ) | ( ) | ( ) | ( ) | ( ) |

**University Core Requirements**

- **Human Cultures Humanities**
- **Human Cultures Behavioral/Social Science**
- **Information Literacy**
- **Science Selective**
- **Science Selective**

The student is ultimately responsible for knowing and completing all degree requirements.
**Biochemistry Honors**

Revised 5/2015 (effective Fall 2015)

Suggested Arrangement of Courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 1st Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 1st Year</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>BIOL 12100</td>
<td></td>
<td>3</td>
<td>BIOL 13100</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>BIOL 13500</td>
<td>CHM 12901 coreq</td>
<td>4</td>
<td>Organic Chem 1 Selective</td>
<td>CHM 11600 or 12901</td>
</tr>
<tr>
<td>5</td>
<td>CHM 12901</td>
<td>ALEKS score of 85</td>
<td>4-5</td>
<td>Calculus II Selective</td>
<td>Calc I</td>
</tr>
<tr>
<td>4-5</td>
<td>Calculus I Selective</td>
<td></td>
<td>3</td>
<td>Language/Culture 2 Selective</td>
<td>Lang 10100</td>
</tr>
<tr>
<td>3</td>
<td>Language/Culture 1 Selective</td>
<td></td>
<td>3-4</td>
<td>ENGL 10600 or 10800</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>BIOL 11500</td>
<td></td>
<td>17-18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 2nd Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 2nd Year</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>BIOL 23100</td>
<td>CHM 116 coreq; BIOL 13100</td>
<td>3</td>
<td>BIOL 24100</td>
<td>BIOL 23100</td>
</tr>
<tr>
<td>2</td>
<td>BIOL 23200</td>
<td></td>
<td>2</td>
<td>BIOL 24200</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Organic Chem 2 Selective</td>
<td>Organic I</td>
<td>4</td>
<td>PHYS 17200</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Language/Culture 3 Selective</td>
<td>varies</td>
<td>2</td>
<td>BIOL 28600</td>
<td>BIOL 12100</td>
</tr>
<tr>
<td>3</td>
<td>COM 21700</td>
<td></td>
<td>3</td>
<td>General Education 1 Selective</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 3rd Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 3rd Year</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>BCHM 56100</td>
<td>Organic II prereq</td>
<td>3</td>
<td>BCHM 56200</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BIOL 39500</td>
<td>BIOL 23100 &amp; 24100</td>
<td>4</td>
<td>PHYS 27200</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BIOL 41500</td>
<td>BIOL 23100 &amp; 24100</td>
<td>3-4</td>
<td>Computer Science Selective</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>General Education 2 Selective</td>
<td></td>
<td>3</td>
<td>General Education 3 Selective</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Elective</td>
<td></td>
<td>3</td>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 4th Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 4th Year</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>BIOL 42000</td>
<td></td>
<td>4</td>
<td>Physical Chemistry Selective</td>
<td>varies</td>
</tr>
<tr>
<td>3</td>
<td>BIOL 59500</td>
<td></td>
<td>3</td>
<td>STAT 50300</td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>Analytical Chemistry Selective</td>
<td></td>
<td>3</td>
<td>Great Issues Selective</td>
<td></td>
</tr>
<tr>
<td>1-3</td>
<td>Multidisciplinary Selective</td>
<td></td>
<td>2</td>
<td>BIOL 44201</td>
<td></td>
</tr>
<tr>
<td>2-3</td>
<td>Biology Selective</td>
<td></td>
<td>1-2</td>
<td>Biology Lab Selective</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1-2</td>
<td>Biology Lab Selective</td>
<td></td>
</tr>
<tr>
<td>12-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

120 semester credits required for Bachelor of Science degree.
3.0 Graduation GPA required for Biochemistry Honors major.
2.0 Graduation GPA required for Bachelor of Science degree.

The student is ultimately responsible for knowing and completing all degree requirements.