**Bachelor of Science in Biological Science – Concentration in Cell and Molecular Biology (Category II)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL (Yr 1, Semester 1)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B4/Prereq</td>
<td>MATH 120 Precalculus</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
<td>GS 101A Foundations of Success I</td>
<td>1</td>
</tr>
<tr>
<td>A2</td>
<td>ENGL 101 College Writing (English Composition)</td>
<td>3</td>
</tr>
<tr>
<td>A1</td>
<td>COMM 100 Communication</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Student choice</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>PHIL 100 Workshop in Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>16</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPRING (Yr 1, Semester 2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2/LD Major</td>
<td>BIOL 140A Principles of Cell &amp; Mol. Biology</td>
<td>5</td>
</tr>
<tr>
<td>LD Major</td>
<td>MATH 130 Calculus</td>
<td>4</td>
</tr>
<tr>
<td>E</td>
<td>GS 101B Foundations of Success II</td>
<td>1</td>
</tr>
<tr>
<td>Writing II/WID</td>
<td>ENGL 102 Accelerated College Writing</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Student choice</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>16</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL (Yr 2, Semester 3)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD Major</td>
<td>BIOI 140B Principles of Organismal Biology</td>
<td>5</td>
</tr>
<tr>
<td>B1/LD Major</td>
<td>CHEM 111 General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>UD Major</td>
<td>BIOL 310 Genetic Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>D1/Code 1</td>
<td>Student choice</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>17</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPRING (Yr 2, Semester 4)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD Major</td>
<td>CHEM 112 General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>UD Major</td>
<td>BIOL 410 Genetic Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>UD Major</td>
<td>BIOL 320 Evolutionary Biology</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Student choice</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>14</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL (Yr 3, Semester 5)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3/LD Major</td>
<td>PHYS 125 Principles of Physics I</td>
<td>4</td>
</tr>
<tr>
<td>UD Major</td>
<td>CHEM 331 Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>UD Major</td>
<td>BIOL 424 Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>D3</td>
<td>Student choice</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPRING (Yr 3, Semester 6)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD Major</td>
<td>PHYS 126 Principles of Physics II</td>
<td>4</td>
</tr>
<tr>
<td>UD Major</td>
<td>CHEM 332 Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>UD Major</td>
<td>BIOL 428 Genomics</td>
<td>3</td>
</tr>
<tr>
<td>UD Major Elec</td>
<td>Student choice</td>
<td>3-5</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>15-17</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL (Yr 4, Semester 7)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UD Major</td>
<td>CHEM 441 Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>UD Major Elec</td>
<td>Student choice</td>
<td>3-5</td>
</tr>
<tr>
<td>B6</td>
<td>Student Choice</td>
<td>3</td>
</tr>
<tr>
<td>C3</td>
<td>Student choice</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>13-15</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPRING (Yr 4, Semester 8)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UD Major</td>
<td>BIOL 426 Advanced Molecular &amp; Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>UD Major</td>
<td>BIOL 427 Molecular and Cell Biology Lab</td>
<td>3</td>
</tr>
<tr>
<td>C4</td>
<td>Student Choice</td>
<td>3</td>
</tr>
<tr>
<td>D4</td>
<td>Student Choice</td>
<td>3</td>
</tr>
<tr>
<td>Code 2</td>
<td>Student Choice</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL UNITS TO DEGREE:** 120

For a list of suggested GE courses for Biology majors, please visit: [http://www.csueastbay.edu/biology/advising/ge-courses.html](http://www.csueastbay.edu/biology/advising/ge-courses.html)

For a list of Biology Faculty Advisors, please visit: [http://www.csueastbay.edu/biology/advising/faculty-advisors.html](http://www.csueastbay.edu/biology/advising/faculty-advisors.html)