## Major Requirements

<table>
<thead>
<tr>
<th>Lower Division Requirements</th>
<th>Pre-Req</th>
<th>Units</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO146 General Biology I w/Lab</td>
<td>-</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BIO148 General Biology II w/Lab</td>
<td>-</td>
<td>4</td>
<td>Spring only</td>
</tr>
<tr>
<td>CHE115 General Chemistry I w/Lab</td>
<td>CHE102 or HS Chem</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHE125 General Chemistry II w/Lab</td>
<td>CHE115</td>
<td>4</td>
<td>Spring only</td>
</tr>
<tr>
<td>MAT145 Math Methods in Natural Sciences</td>
<td>MAT115 or 135</td>
<td>4</td>
<td>Spring only</td>
</tr>
<tr>
<td>or MAT245 Analytical Geometry &amp; Calculus I</td>
<td>MAT135 or 145</td>
<td>4</td>
<td>Spring only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lower Division Physics Requirements</th>
<th>Pre-Req</th>
<th>Units</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY114 General Physics I w/Lab</td>
<td>MAT145 or 245</td>
<td>4</td>
<td>Fall only (entrance exam)</td>
</tr>
<tr>
<td>PHY124 General Physics II w/Lab</td>
<td>PHY114</td>
<td>4</td>
<td>Spring only</td>
</tr>
<tr>
<td>PHY214 Physics for Scientists I w/Lab</td>
<td>MAT145 or 245</td>
<td>4</td>
<td>Fall only (entrance exam)</td>
</tr>
<tr>
<td>PHY224 Physics for Scientists II w/Lab</td>
<td>PHY214</td>
<td>4</td>
<td>Spring only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper Division Requirements</th>
<th>Pre-Req</th>
<th>Units</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO313 Genetics</td>
<td>BIO146</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BIO330 Cell &amp; Molecular Biology w/Lab</td>
<td>BIO146 &amp; 148</td>
<td>4</td>
<td>Fall only</td>
</tr>
<tr>
<td>BIO380 Biology Seminar</td>
<td>-</td>
<td>1</td>
<td>Spring only</td>
</tr>
<tr>
<td>BIO499 Biology Capstone</td>
<td>Pre or Co: BIO380</td>
<td>2</td>
<td>Fall only</td>
</tr>
<tr>
<td>CHE351 Organic Chemistry I w/Lab</td>
<td>CHE125</td>
<td>4</td>
<td>Fall only</td>
</tr>
<tr>
<td>CHE352 Organic Chemistry II w/Lab</td>
<td>CHE351</td>
<td>4</td>
<td>Spring only</td>
</tr>
<tr>
<td>BIO114 General Botany w/Lab</td>
<td>-</td>
<td>4</td>
<td>Spring only</td>
</tr>
<tr>
<td>BIO302 Ecology w/Lab</td>
<td>BIO114, 143, or 146</td>
<td>4</td>
<td>Spring only (even years)</td>
</tr>
<tr>
<td>BIO344 Vertebrate Physiology w/Lab</td>
<td>BIO148 &amp; CHE115</td>
<td>4</td>
<td>Spring only</td>
</tr>
<tr>
<td>PHY113 Astronomy</td>
<td>-</td>
<td>3</td>
<td>Fall only</td>
</tr>
<tr>
<td>PSC151 Introduction to Geosciences</td>
<td>-</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Concentration Requirements

<table>
<thead>
<tr>
<th>Pre-Req</th>
<th>Units</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>GST100, CHE102, ENG103, and MAT095</td>
<td>count as elective units</td>
<td></td>
</tr>
</tbody>
</table>

---

**About This Plan**

- This plan is not a contract. Curriculum can be subject to change.
- Highlighted courses and fields are major specific.
- Descriptions for all courses can be found in the CBU catalog at insidecbu.calbaptist.edu.
- To graduate, all students need 124 total units, 39 of which must be upper division.
- Courses numbered in the 300's and 400's are upper division.
- GST100, CHE102, ENG103, and MAT095 count as elective units.

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## General Education Requirements

<table>
<thead>
<tr>
<th>Competency Requirements</th>
<th>Units</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Competency</td>
<td>3</td>
<td>ENG113 required</td>
</tr>
<tr>
<td>Math Competency</td>
<td>3</td>
<td>MAT145 or 245 will fulfill, STA144 recommended</td>
</tr>
<tr>
<td>Technology</td>
<td>3</td>
<td>CIS265 recommended</td>
</tr>
<tr>
<td>Foreign Language I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language II</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

If you are exempt from a Competency Requirement, add those units to Additional Elective Units Needed.

### Core Curriculum

<table>
<thead>
<tr>
<th>Units</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral Science</td>
<td>6</td>
</tr>
<tr>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Music or Film</td>
<td>3</td>
</tr>
<tr>
<td>Communication Arts</td>
<td>3</td>
</tr>
<tr>
<td>Art or Music</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>US History</td>
<td>3</td>
</tr>
<tr>
<td>Non-US History</td>
<td>3</td>
</tr>
<tr>
<td>Political Science</td>
<td>3</td>
</tr>
<tr>
<td>Lab Science</td>
<td>4</td>
</tr>
<tr>
<td>Science or Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>Christian Studies</td>
<td>9</td>
</tr>
</tbody>
</table>

*Course is interdisciplinary

### Upper Division Requirements

| 12 | BIO313 & 330 will fulfill 8 units |
| Multicultural Requirements | 9 | ENG123 will fulfill 3 units |

### Interdisciplinary Requirements

| 9 |

**Total Required GE units:** 51

**Upper Division Required GE Units:** 6

### Total Major Units:

**65**

**Upper Division Major Units:** 27

**Additional Elective Units Needed:** 8

**Upper Division Elective Units Needed:** 6

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## Contact Information

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---

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## Biology - Secondary Biology Education

### 2013-2014

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Summer Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO146 General Biology I w/Lab</td>
<td>BIO148 General Biology II w/Lab</td>
<td></td>
</tr>
<tr>
<td>CHE102 Fundamentals of Chemistry</td>
<td>ENG123 Intermediate Composition</td>
<td></td>
</tr>
<tr>
<td>ENG113 Composition</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td>GST100 Focus</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td>General Education Course (or Math Course if needed)</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units:</strong> 14</td>
<td><strong>Total Units:</strong> 16</td>
<td><strong>Total Units:</strong> 17</td>
</tr>
</tbody>
</table>

### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Summer Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO146 General Biology I w/Lab</td>
<td>BIO148 General Biology II w/Lab</td>
<td></td>
</tr>
<tr>
<td>ENG113 Composition</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td>GST100 Focus</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td>General Education Course (or Math Course if needed)</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units:</strong> 14</td>
<td><strong>Total Units:</strong> 16</td>
<td><strong>Total Units:</strong> 17</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Summer Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO300 Cell &amp; Molecular Biology w/Lab</td>
<td>BIO114 General Botany w/Lab</td>
<td></td>
</tr>
<tr>
<td>CHE115 General Chemistry I w/Lab</td>
<td>CHEM125 General Chemistry II w/Lab</td>
<td></td>
</tr>
<tr>
<td>Upper Division General Education Course</td>
<td>MAT145 or MAT245</td>
<td></td>
</tr>
<tr>
<td>General Education Course</td>
<td>General Education Course</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Total Units:</strong> 17</td>
<td><strong>Total Units:</strong> 16</td>
<td><strong>Total Units:</strong> 14</td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Summer Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO146 General Biology I w/Lab</td>
<td>BIO148 General Biology II w/Lab</td>
<td></td>
</tr>
<tr>
<td>ENG113 Composition</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td>GST100 Focus</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td>General Education Course (or Math Course if needed)</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units:</strong> 14</td>
<td><strong>Total Units:</strong> 15</td>
<td><strong>Total Units:</strong> 18</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Summer Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO499 Biology Capstone</td>
<td>BIO302 or BIO344 (depending on year)</td>
<td></td>
</tr>
<tr>
<td>PHY113 Astronomy</td>
<td>PHY124 or PHY224</td>
<td></td>
</tr>
<tr>
<td>PHY114 or PHY214</td>
<td>Upper Division General Education Course</td>
<td></td>
</tr>
<tr>
<td>PSC151 Introduction to Geosciences</td>
<td>General Education Course</td>
<td></td>
</tr>
<tr>
<td>Upper Division General Education Course</td>
<td>Elective Course (or GE if additional Math was taken)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units:</strong> 18</td>
<td><strong>Total Units:</strong> 14</td>
<td><strong>Total Units:</strong></td>
</tr>
</tbody>
</table>

**Total Units:** 124 (124 units required to graduate)