<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Blo 112</td>
<td>College Biology I</td>
<td>4</td>
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<tr>
<td>Blo 213</td>
<td>College Biology II</td>
<td>4</td>
</tr>
<tr>
<td>Blo 315</td>
<td>Genetics</td>
<td>3</td>
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<tr>
<td>Blo 425</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Bio 392/492</td>
<td>Problems in Biology</td>
<td>3</td>
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One of the following sequences: 6
- Bio 309 Cell Physiology
- Zoo 321L General Physiology Laboratory
- Zoo 370 Comparative Anatomy

2. Zoo 320 General Physiology
- Zoo 321L General Physiology Laboratory
- Zoo 370 Comparative Anatomy

3. Zoo 321L General Physiology Laboratory
- Zoo 370 Comparative Anatomy
- Zoo 380 Ecological Physiology

4. Zoo 305 Human Anatomy & Physiology I
- Zoo 306 Human Anatomy & Physiology II

One of the following three courses:
- Bio 320 Introductory Ecology 3
- Bio 325 Behavioral Biology 4
- Bio 358 Plant Ecology 3

One of the following three courses:
- Bio 340 The Plant Kingdom 3
- Bio 357 Plant Systematics/Local Flora 3
- Bio 370 The Animal Kingdom 4
- Bio 492 Research 3
- Zoo 330 Invertebrate Zoology 4
- Zoo 340 Vertebrate Zoology 4

**B. Electives** 8

**C. Cognates** 32-33
- Che 111 General Chemistry I 4
- Che 212 General Chemistry II 4

One of the following Phys Sequences: 8
- a. Phy 111 & 212 College Physics I&II
- b. Phy 112 & 213 General Physics I&II

One of the following Chem sequences: 8
- a. Che 331 Organic Chemistry I and Che 332 Organic Chemistry II
- b. Che 230/230L Intro Org Chem+Lab and Che 360/360L Intro Biochem + Lab

One of the following 3 courses: 3-4
- Mat 158 Statistics A
- Mat 179 Measuring Life
- Mat 220 Calculus II

One of the following two courses: 3-4
- Mat 258 Statistics B
- Mat 210 Calculus I

One Intellectual Issues course in The Natural Sciences 3

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<tbody>
<tr>
<td>Blo 110</td>
<td>Biology Seminar</td>
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<tr>
<td>Blo 210</td>
<td>Cellular and Molecular Biology</td>
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<td>Bio 315</td>
<td>Genetics</td>
<td>3</td>
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<td>Bio 319</td>
<td>Genetics Lab</td>
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<td>Bio 425</td>
<td>Evolution</td>
<td>3</td>
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<tr>
<td>Bio 492</td>
<td>Research</td>
<td>3</td>
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</table>

**Proposed Biology Certification/General Science Extension – Adolescence: 7-12**

**C. Cognates** 32-33
- Che 111 General Chemistry I 4
- Che 212 General Chemistry II 4

One of the following Physics Courses: 4
- a. Phy 111 College Physics I
- b. Phy 112 General University Physics I

One of the following Chem sequences: 8
- a. Che 331 Organic Chemistry I and Che 332 Organic Chemistry II
- b. Che 230/230L Intro Org Chem+Lab and Che 360/360L Intro Biochem + Lab

Math Sequences: 27-30
- Mat 173 and either Mat 120 or Mat 210

Two of the following Earth Science General Ed.
- Geology 100: Geology
- Geology 100: Physical Geology
- Geology 100: Oceanography
- Physical Geology 300: Energy and Environment