<table>
<thead>
<tr>
<th>First Year</th>
<th>BIOL 112 ____</th>
<th>BIOL 140 ____</th>
<th>BIOL 121 ____</th>
<th>One of: PHYS 101, 107, 117 ____</th>
<th>One of: MATH 100, 102, 104, 120, 180, or 184 ____</th>
<th>Communication Requirement 6cr of WRDS 150; SCIE 113; any of ENGL 100, 110, 111, 112, 120, or 121; SCIE 300 or CHEM 300; APSC 176; LFS 150; Arts One; ASTU 100, 101: ____ and ____ Electives [3cr]: ____</th>
<th>31cr</th>
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<tbody>
<tr>
<td>Second Year</td>
<td>*Biology Fundamentals Courses: BIOL 200 ____</td>
<td>BIOL 201 ____</td>
<td>BIOL 230 ____</td>
<td>BIOL 260 ____</td>
<td>BIOL 233 ____</td>
<td>CHEM 233 ____</td>
<td>CHEM 235 ____</td>
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<td>Or BIOL 234 ____</td>
<td>*Organismal Courses: Two from BIOL 203 ____</td>
<td>BIOL 204 ____</td>
<td>BIOL 205 ____</td>
<td>BIOL 209 ____</td>
<td>BIOL 210 ____</td>
<td>BIOC 302 or 303 ____</td>
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<td><strong>Cell and Developmental Biology Selections [12cr]: ____</strong></td>
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<td>Third Year</td>
<td>BIOL 300 ____</td>
<td>BIOL 347 ____</td>
<td>BIOL 340 ____</td>
<td>BIOL 341 ____</td>
<td>BIOC 302 or 303 ____</td>
<td>BIOL 335 ____</td>
<td>BIOL 336 ____</td>
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<tr>
<td>Fourth Year</td>
<td>BIOL 447 ____</td>
<td>BIOL 449 ____</td>
<td><strong>Life Science Selections [9cr]: ____</strong></td>
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Minimum Total credits = 132

* One Organismal and/or one of BIOL 201, 230, 233, 234, 260 can be deferred to third year. **Note**: It is recommended that BIOL 201 be taken in second year; it is prerequisite for a number of Cell and Developmental Biology Selections.

***Life Science Selection:***

BIOL 448 – Directed Studies: A maximum of 3 credits BIOL 448 can count toward life science selections.
***Cell and Developmental Biology Selections (6cr of 12cr MUST be 4xx level):***
BIOL 331 - Developmental Biology
BIOL 337 – Introductory Genetics Laboratory
BIOL 338 - Introduction to Genomics
BIOL 351 – Plant Physiology I
BIOL 352 – Plant Physiology II: Plant Development
BIOL 361 – Physiology of Sensory, Nervous & Muscular Systems
BIOL 362 – Cellular Physiology
BIOL 423 - Plant Stress Ecophysiology
BIOL 430 - Genome Evolution
BIOL 431 – Evolutionary Cell Biology
BIOL 432 – Research Strategies and Techniques in Cell Biology
BIOL 433 – Plant Genetics
BIOL 436 – Integrated Functional Genomics
BIOL 437 – Laboratory in Animal Cell Molecular Biology
BIOL 440 – Plant Genomics
BIOL 441 - Animal Cell Biology
BIOL 450 - Molecular Adaptation of Animals to the Environment
BIOL 455 - Comparative Neurobiology
BIOL 456 - Comparative and Molecular Endocrinology
BIOL 458 - Developmental Neurobiology
BIOL 463 - Gene Regulation in Development
BIOL 464 - Animal Developmental Genetics

**Faculty of Science Elective Requirements:**
(May be any level as long as the upper level requirement of 48 upper level credits including at least 30 credits from the Faculty of Science is satisfied. Also, up to 18 credits of course work in a faculty other than Science or Arts may be taken for credit.)
- **Arts Electives** - 12 credits from the Faculty of Arts.
- **Electives** – May be from any faculty.