# Recommended Coursework Strategy for B.A. in General Biology: 4 – year plan

**MEET WITH YOUR GENERAL BIOLOGY MAJOR ADVISOR EVERY SEMESTER!**

Students who are “Undeclared with an Interest in Biology – BA” should be taking COURSES IN THE MAJOR in YEAR 1.

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<tr>
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<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>Chem 115</td>
<td>Biol 230</td>
<td>Biol 240</td>
<td>Biol 355</td>
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<td></td>
<td>Gen Chem I (5)</td>
<td>Gen Biology I (5)</td>
<td>Gen Biology II (5)</td>
<td>Genetics (3)</td>
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<td>Biol 215</td>
<td>Chem 130</td>
<td>Cell Biology course</td>
<td>(w/lab)*</td>
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<td>Gen Chem II (3)</td>
<td>General Org Chem (3)</td>
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<td>Evolution or Organismal Biology course</td>
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<td><strong>Spring</strong></td>
<td>Phys 111/112</td>
<td>Math 226</td>
<td>Math 124</td>
<td>Upper Division Elective</td>
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<td>Phys I+lab (3/1)</td>
<td>Calculus I (4)</td>
<td>Elem Stats (3)</td>
<td>Elective</td>
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<td>Phys 121/122</td>
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<td>Phys II+lab (3/1)</td>
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<td>Ecology course</td>
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**Ecology options**
- BIOL 482 Ecology 4
- BIOL 529 GW Plant Ecology 4
- BIOL 532 Restoration Ecology
- BIOL 534 Wetland Ecology 4
- BIOL 580 Limnology 3
- BIOL 582 Biological Oceanography
- BIOL 585/586 Marine Ecology & Laboratory (3/2)

**Evolution or Organismal Biology options**
- BIOL 328 Human Anatomy 4
- BIOL 337 Evolution
- BIOL 380 Comparative Embryology
- BIOL 425 Emerging Diseases
- BIOL 453/454 Parasitology and Laboratory (3/1)
- BIOL 460 General Entomology 4
- BIOL 461 Insect Taxonomy 4
- BIOL 475 GW Herpetology
- BIOL 478 Ornithology 4
- BIOL 500 Evolution and Diversity of Plants 4
- BIOL 502 Biology of the Algae 3
- BIOL 504 Biology of the Fungi 4
- BIOL 505 Comparative Anatomy of Vascular Plants 4
- BIOL 514 Plant Taxonomy 5
- BIOL 555 Marine Invertebrate Zoology 4
- BIOL 570 GW Biology of Fishes 4
- BIOL 638 Bioinformatics & Genome Annotations 4
- BIOL 652 Science Education Partners in Biology 4

**Physiology options**
- BIOL 442 Microbial Physiology
- BIOL 525 Plant Physiology
- BIOL 612 Human Physiology
- BIOL 630 Animal Physiology
- BIOL 478 Ornithology 4

**Cell Biology options**
- BIOL 350 Cell Biology
- BIOL 401 General Microbiology
- BIOL 435 Immunology
- BIOL 453 General Parasitology
- BIOL 532 Restoration Ecology
- BIOL 555 Marine Invertebrate Zoology 4

**Cell or Physiology laboratory (2 – 4 units) select course associated with the**
- Cell or Physiology course taken

**Updated 1/30/15, for SFSU Department of Biology**
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Students are required to complete the Upper Division Graduate Writing Assessment Requirement (GWAR) within the major. http://biology.sfsu.edu/content/gwar

Students planning to earn a teaching credential must take an evolution course and an organismal biology course. In addition, they must complete the geosciences breadth requirements. See: http://biology.sfsu.edu/content/teaching-k-12

Students who are on the pre-health profession track, should plan to take Chem 233/234 Organic Chemistry 1 and Chem 335/336 in preparation for the health professions program. Chem 233 can be used in lieu of Chem 130 for meeting the Biology major requirements. Meet with a Pre-Health Advisor: http://online.sfsu.edu/brothman/index.html

This strategy is a RECOMMENDATION only. It is designed to schedule two majors science classes at most each semester (except in Year 1). For example, if you plan to take Math 226 or M is not a requirement for any Biology class, so it could be taken during year 2 or year 3.

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