**GENERAL CURRICULUM IN BIOLOGY**

The General Curriculum in Biology is followed by default if no concentration is declared.

### Biodiversity Courses

Select from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 321</td>
<td>Mammalogy</td>
</tr>
<tr>
<td>BIO 322</td>
<td>Ichthyology</td>
</tr>
<tr>
<td>BIO 323</td>
<td>Ornithology</td>
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<tr>
<td>BIO 324</td>
<td>Herpetology</td>
</tr>
<tr>
<td>BIO 329</td>
<td>Vertebrate Field Zoology</td>
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<tr>
<td>BIO 335</td>
<td>General Entomology</td>
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<tr>
<td>BIO 336</td>
<td>Invertebrate Zoology</td>
</tr>
<tr>
<td>BIO 429</td>
<td>Parasitology</td>
</tr>
<tr>
<td>BOT 313</td>
<td>Taxonomy of Vascular Plants</td>
</tr>
<tr>
<td>MCRO 224</td>
<td>General Microbiology I</td>
</tr>
<tr>
<td>MCRO 402</td>
<td>General Virology</td>
</tr>
<tr>
<td>MSCI 324</td>
<td>Marine Mammals, Birds and Reptiles</td>
</tr>
</tbody>
</table>

### 300-400 level Electives

Select from any 300-400 level BIO/BOT/MCRO/MSCI course, except BIO 330, BIO 400, BIO 450, BIO 461, BIO 462, BIO 463, BIO 470, BIO 471, BIO 472.

### 400-level Electives

Select from any 400 level BIO/BOT/MCRO/MSCI course, except BIO 400, BIO 450, BIO 461, BIO 462, BIO 463, BIO 470, BIO 471, BIO 472.

### Approved Electives

At least 12 units must be upper-division. At least 4 units must be BIO/BOT/MCRO/MSCI course(s)

Select from the following:

- Any BIO/BOT/MCRO/MSCI course
- AG/EDES/ENGR/ISLA/SCM/UNIV 350: The Global Environment
- ANT 401: Culture and Health
- ASCI 329: Principles of Range Management
- ASCI 351: Reproductive Physiology
- ASCI 403: Applied Biotechnology in Animal Science
- ASCI 405: Domestic Livestock Endocrinology or BIO 407: Advanced Anatomy and Physiology: Endocrinology
- ASCI 438: Systemic Animal Physiology
- ASCI 503: Advanced Molecular Techniques in Animal Science
- CHEM 217: Organic Chemistry II
- CHEM 218: Organic Chemistry III
- CHEM 220: Organic Chemistry Laboratory For Life Sciences II
- CHEM 223: Organic Chemistry Laboratory for Life Sciences III
- CHEM 313: Survey of Biochemistry and Biotechnology or CHEM 371: Biochemical Principles
- CHEM 331: Quantitative Analysis
- CHEM 341: Environmental Chemistry: Water Pollution
- CHEM 372: Metabolism
- CHEM 377: Chemistry of Drugs and Poisons
- CHEM 418: Neurochemistry
- CHEM 474: Protein Techniques Laboratory
- CHEM 528: Nutritional Biochemistry
- COMS 418: Health Communication
- ENGR 322/SCM 302: The Learn By Doing Lab Teaching Practicum
- ERSC/GEOG 250: Physical Geography
- ES/WGS 350: Gender, Race, Culture, Science and Technology
- FSN 310: Maternal and Child Nutrition
- FSN 429: Clinical Nutrition I
- GEOG 440: Advanced-Applications in GIS
- KINE 406: Neuroanatomy
- KINE 445: Electrocardiography
- KINE 446: Echocardiography
- LA/NR 218: Applications in GIS or GEOG 318: Applications in GIS
- NR 141: Introduction to Forest Ecosystem Management
- NR 142: Environmental Management
- NR 404: Environmental Law
- NR 416: Environmental Impact Analysis and Management
- NR 418: Applied GIS
- NR 425: Applied Resource Analysis and Assessment
- PHIL 339: Biomedical Ethics or PHIL 341: Professional Ethics or SCM 451: Ethics in the Sciences
- PSC 201: Physical Oceanography
- PSY 320: Health Psychology
- PSY 340: Biopsychology
- SS 121: Introductory Soil Science
- SS 321: Soil Morphology
- SS 322: Soil Plant Relationships
- SS 422: Soil Ecology
- STAT 313: Applied Experimental Design and Regression Models
- STAT 324: Applied Regression Analysis or STAT 334: Applied Linear Models
- STAT 330: Statistical Computing with SAS
- STAT 416: Statistical Analysis of Time Series
- STAT 419: Applied Multivariate Statistics
STAT 421  Survey Sampling and Methodology

Total units  43

1 Excess units will be applied to subsequent concentration Electives.
2 Consultation with advisor is recommended prior to selecting electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.
3 Courses taken to meet a major or support requirement cannot be double-counted as an elective.
4 Selecting a GE Area F course that double counts as an elective may cause an upper-division unit shortage. Take care to ensure that you have selected enough 300 and 400-level courses to meet the 60-unit Upper-Division Requirement.
5 Recommended for students interested in health science careers.
6 Maximum of 6 units may be applied toward Approved Electives from "by arrangement" courses: BIO 330, BIO 400, BIO 450, BIO 461, BIO 462, BIO 463, BIO 470, BIO 471, BIO 472, ENGR 322/SCM 302.