**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 Name</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>
</tr>
<tr>
<td>BIO 324</td>
<td>Herpetology</td>
</tr>
<tr>
<td>BIO 329</td>
<td>Vertebrate Field Zoology</td>
</tr>
<tr>
<td>BIO 335</td>
<td>General Entomology</td>
</tr>
<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
- 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
- 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
- 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
- PHIL 341: Professional Ethics
- PHIL 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
- 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.