GENERAL CURRICULUM IN BIOLOGY

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

Biodiversity Courses 1,2
Select from the following: 4

BIO 321 Mammalogy
BIO 322 Ichthyology
BIO 324 Herpetology
BIO 329 Vertebrate Field Zoology
BIO 335 General Entomology
BIO 336 Invertebrate Zoology
BIO 429 Parasitology
BOT 313 Taxonomy of Vascular Plants
MCRO 224 General Microbiology I
MCRO 402 General Virology
MSCI 324 Marine Mammals, Birds and Reptiles

Upper Division Electives 1,2
Select from any 300-400 level BIO/BOT/MCRO/MSCI, except BIO 330, BIO 400, BIO 450, BIO 461, BIO 462, BIO 463, BIO 470, BIO 471, BIO 472, ENGR 322/SCM 302. Select a minimum of 11 units of 400-level courses.

Additional Electives 2, 3, 4
Select from any BIO/BOT/MCRO/MSCI open to BIO majors (including courses cross-listed with other departments), or course from any other concentration in BIO, with the following restrictions:

Maximum of 7 units of Lower Division.

Maximum of 6 units of the following:

BIO 330 Extended Field Biology Activity
BIO 400 Special Problems for Advanced Undergraduates
BIO 450 Undergraduate Laboratory Assistantship
BIO 461 Senior Project - Research Proposal 5
BIO 462 Senior Project - Research 5
BIO 463 Honors Research
BIO 470 Selected Advanced Topics
BIO 471 Selected Advanced Laboratory
BIO 472 Current Topics in Biological Research
ENGR 322/SCM 302 The Learn By Doing Lab Teaching Practicum

Maximum of 15 units of the following:

AG/EDES/ENGR/ISLA/SCM/UNIV 350
ASCI 329 Principles of Range Management
ASCI 351 Reproductive Physiology
ASCI 403 Applied Biotechnology in Animal Science
ASCI 405 Domestic Livestock Endocrinology

ASCI 406 Applied Animal Embryology and Assisted Reproduction
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 474 Protein Techniques Laboratory
CHEM 528 Nutritional Biochemistry
ENGR 322 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
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 or PHIL 341 Professional Ethics or SCM 451 Ethics in the Sciences
PSC 201 Physical Oceanography
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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>STAT 330</td>
<td>Statistical Computing with SAS</td>
</tr>
<tr>
<td>STAT 416</td>
<td>Statistical Analysis of Time Series</td>
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<tr>
<td>STAT 419</td>
<td>Applied Multivariate Statistics</td>
</tr>
<tr>
<td>STAT 421</td>
<td>Survey Sampling and Methodology</td>
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Total units: 43

1. Excess units will be applied to Electives in the General Curriculum in Biology.
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. If any of these courses is taken to meet a major or support requirement in the degree, it 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 University Upper-Division Requirement (60 units).
5. If BIO 461 or BIO 462 is used to meet the Senior Project Requirement, it cannot also be counted as an Elective.