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:

- BIO 321 Mammalogy
- BIO 322 Ichthyology
- BIO 323 Ornithology
- 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

**300-400 level Electives** 1,2
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** 1,2
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** 2,3,4
At least 12 units must be upper-division.

At least 4 units must be BIO/BOT/MCRO/MSCI course(s)
Select from the following:

- 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.