**GENERAL CURRICULUM IN BIOLOGY**

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

**Biodiversity Courses**

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
- MSCSI 324 Marine Mammals, Birds and Reptiles

**400-level Electives**

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

**300-400 level Electives**

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

**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:

- AG/EDES/ENGR/ISLA/SCM/UNIV 350 The Global Environment
- ANT 401 Culture and Health
- ASCI 239 Principles of Rangeland Management
- ASCI 351 Reproductive Physiology
- ASCI 403 Applied Biotechnology in Animal Science
- ASCI 404 Domestic Livestock Endocrinology
  or BIO 407 Advanced Anatomy and Physiology: Endocrinology
- ASCI 405 Applied Animal Embryology and Assisted Reproduction
- ASCI 438 Systemic Animal Physiology
- 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 371 Biochemical Principles
- CHEM 331 Quantitative Principles
- CHEM 341 Environmental Chemistry: Water Pollution
- CHEM 372 Metabolism
- CHEM 377 Chemistry of Drugs and Poisons
- CHEM 418 Neurochemistry
- CHEM 428 Nutritional Biochemistry
- CHEM 474 Protein Techniques Laboratory
- COMS 418 Health Communication
- CSC 101 Fundamentals of Computer Science
- DATA 301 Introduction to Data Science
- 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
- GEOG 440 Advanced-Applications in GIS
- KINE 406 Neuroanatomy
- KINE 445 Electrocardiography
- KINE 446 Echocardiography
- LA/NR 218 Introduction to Geographic Information Systems (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 323 Ethics, Science and Technology
  or PHIL 339 Biomedical Ethics
  or PHIL 341 Professional Ethics
- PSC 201 Physical Oceanography
- PSY 320 Health Psychology
- PSY 340 Biopsychology
- SS 120 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
Consultation with advisor is recommended prior to selecting electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.

Excess units will be applied to Approved Electives.

Recommended for students interested in health science careers.

Excess units will be applied to 300-400 level Electives.

If a course is taken to meet a Major or Support requirement, it cannot be double-counted in the concentration.

Taking a General Education (GE) course that double-counts as an elective may cause an upper-division unit shortage. Use care to ensure that you have taken enough 300-400 level courses to meet the required 60 units of upper-division courses.

If BIO 461 or BIO 462 is used to meet the senior project requirement, it cannot be double-counted as an elective.

Maximum of 6 units may be applied toward Approved Electives from BIO 200, BIO 300, BIO 400, BIO 450.

Maximum of 2 units may be applied toward Approved Electives from ENGR 322/SCM 302