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
- MSC 324 Marine Mammals, Birds and Reptiles

400-level Electives 1, 4
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 1, 2
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, and courses which are "not open for major credit in Biological Sciences."

Approved Electives 1, 5, 6, 7
At least 12 units must be upper-division.

- 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 405 Domestic Livestock Endocrinology or BIO 407 Advanced Anatomy and Physiology Endocrinology
- ASCI 406 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 314 Biochemistry: Fundamentals and Applications
  or CHEM 369 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 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 10
- ERSC/GEOG 250 Physical Geography
- ES/WGQS 350 Gender, Race, Culture, Science & Technology
- FSN 310 Maternal and Child Nutrition
- GEOG 441 Advanced Applications in Geospatial Technologies
- KINE 406 Neuroanatomy
- KINE 445 Electrocardiography
- KINE 446 Echocardiography
- LA/NR 218 Introduction to Geographic Information Systems (GIS) or GEOG 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 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
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: BIO 200, BIO 300, BIO 400, BIO 450, BIO 485, BIO 495, MSCI 401.

Only one of the following courses may count toward Approved Electives: BIO 231, BIO 232.

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