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
- MSC 324 Marine Mammals, Birds and Reptiles

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:

- 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 or BIO 407 Advanced Anatomy and Physiology: 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 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.