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 Mammal 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:

Any BIO/BOT/MCRO/MSCI course

AG/EDES/ENGR/ISLA/SCM/UNIV 350

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 313 Survey of Biochemistry and Biotechnology

or CHEM 371 Biochemical Principles

CHEM 331 Quantitative Principles

CHEM 341 Environmental Analysis

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 300-400 level Electives.

Excess units will be applied to Approved Electives.

Courses taken to meet a major or support requirement cannot be double-counted as an elective.

Selecting a GE 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.

Recommended for students interested in health science careers.

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.

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