

Acceptable Upper-level Electives for the BS, BA and Minor in biology

Biology

BIO 3xx, BIO 4xx, BIO 5xx BIO 6xx

Note: BIO 208, BIO 209 and BIO 210 CANNOT be used to satisfy the upper-level elective requirement for the BS, BA or Minor in Biology

Anthropology (All require introductory Biology)

ANT 332 (3) Human Evolution

Chemistry

CHE 226 (3-5) Analytical Chemistry*

CHE 233 (1) Organic Chemistry Laboratory II*

CHE 440G (4) Physical Chemistry

CHE 441G (2) Physical Chemistry Lab*

CHE 442G (3) Physical Chemistry

CHE 446G (3) Physical Chemistry for Engineers

CHE 532 (2) Spectrometric ID of Organic Compounds

CHE 533 (2) Qualitative Organic Analysis Lab*

CHE 550 (3) Biological Chemistry I

CHE 552 (3) Biological Chemistry II

CHE 558 (3) Hormone Receptors and Cell Signals

CHE 565 (3) Environmental Chemistry

Geology

EES 401G (3) Invertebrate Paleontology and Evolution

Arts and Sciences

A&S 300 (Acceptable as upper-level credit ONLY when offered by the Dept of Biology)

A&S 500 (Acceptable as upper-level credit ONLY when offered by the Dept of Biology)

Psychology

PSY 456 (4) Behavioral Neuroscience*

PSY 459 (3) Drugs and Behavior

PSY 552 (4) Evolutionary Psychology*

PSY 565 (3) Advanced Topics In Neuroscience

Statistics (Biology usually accepts only one of the following for each student)

STA 570 (4) Basic Statistical Analysis

STA 580 (2) Biostatistics I

Other STA courses may be accepted at the discretion of your advisor, and this may depend upon the area of biology in which you choose to specialize.

College of Agriculture, Food and Environment

ABT 460 (3) Introduction to Molecular Genetics (Cross listed as AGR/ASC/ENT 460)

ASC 364 (4) Reproductive Physiology of Animals

ASC 378 (4) Animal Nutrition

ENT 310 (3) Insect Pests of Field Crops

ENT 320 (3) Horticultural Entomology

ENT 402 (3) Forest Entomology (cross listed as FOR 402)

ENT 460 (3) Intro to Molecular Genetics (cross listed as ABT/ASC/FOR 360)

ENT 561 (3) Insects Affecting Human and Animal Health

ENT 564 (4) Insect Taxonomy
ENT 568 (3) Insect Behavior
FOR 340 (4) Forest Ecology*
FOR 375 (1) Taxonomy of Forest Vegetation
FOR 402 (3) Forest Entomology*
FSC 530 (5) Food Microbiology*
NRE 320 (3) Natural Resource and Environmental Analysis
NRE 420G (4) Taxonomy of Vascular Plants*
NRE 450G (3) Biogeochemistry
NRC 455G (3) Wetland Delineation
PLS 320 (4) Woody Horticultural Plants*
PLS 330 (2) Herbaceous Horticultural Plants I*
PLS 332 (2) Herbaceous Horticultural Plants II*
PLS 366 (4) Fundamentals of Soil Science
PLS 450G (3) Biogeochemistry
PLS 502 (3) Ecology of Economic Plants
PLS 566 (3) Soil Microbiology
PLS 567 (1) Methods in Soil Microbiology (Lab)*
PPA 400G (3) Principles of Plant Pathology*

College of Medicine

ANA 511 (5) Intro To Human Anatomy*
ANA 512 (4) Microscopy and Ultrastructure*
ANA 516 (3) Anatomy of the Nervous System*

Some other anatomy courses at the 500-level are acceptable, but they are usually restricted to professional students.

BCH 401G (3) Fundamentals of Biochemistry
MI 494G (3) Immunobiology (same as BIO 494G)
MI 595 (2) Immunobiology Laboratory*
MI 598 (3) Clinical Microbiology (same as PAT 598)
PGY 412G (4) Principles of Human Physiology Acceptable as an elective for upper level biology credit but DOES NOT substitute for BIO 350 or BIO430G)
PGY 560 (1) Pathophysiology
PGY 590 (4) Cellular and Molecular Physiology
TOX 509 (3) Biochemical and Environmental Toxicology

Unacceptable courses often mistakenly thought to be acceptable:

ANA 209 (3) Principles of Human Anatomy and PGY 206 Elementary Physiology are not acceptable electives for Biology majors.

Other courses may be accepted at the discretion of the Director of Undergraduate Studies in the Department of Biology

*Lab courses that satisfy upper level lab requirement