

Online Biology Major Electives

Spring 2025

Students may only use a course once to satisfy major elective requirements.

Ecology, Evolution & Behavior

- ECOL 406 R—Conservation Biology (3-units) (7W2)
ECOL 409—Evolution of Infectious Disease (3-units) (7W2)
ECOL 427—Ecology & Evolution of the Mammalian Microbiome (3-units) (7W1)
ECOL 437—Vertebrate Physiology * (4-units) (7W1)
ECOL 360—Marine Ecology & Conservation (3-units) (7W1)
GEOS 330—Intro to Remote Sensing (3-units) (7W2)
RNR 417—GIS for Natural and Social Science * (3-units) (all semester)



Courses in **BOLD** satisfy the Writing Emphasis requirement.

Courses marked with * satisfy the Lab requirement.

Cell & Molecular Biology

- IMB 401—Medical Microbiology & Immunology (4-units) (all semester)
IMB 402—Medical Microbiology Basics(1-unit) (7W1)
IMB 404—Medical Virology Basics(1-unit) (7W2)
IMB 406—Human Immunology (3-units) (all semester)
MCB411 - Molecular Biology (3-units) (7W2)
NROS 310—Molecular & Cellular Biology of Neurons (3-4 units) (7W2)

Genetics

- ECOL 346—Bioinformatics (4-units) (all semester)



Biology of Organisms

Microorganismal

- ECOL 409—Evolution of Infectious Disease (3-units) (7W2)
ECOL 427—Ecology & Evolution of the Mammalian Microbiome (3-units) (7W1)
ENVS 425—Environmental Microbiology (3-units) (7W2)
IMB 401—Medical Microbiology & Immunology (4-units) (all semester)
IMB 402—Medical Microbiology Basics (1-unit) (7W1)
IMB 404—Medical Virology Basics (1-unit) (7W2)

Macroorganismal

- ECOL 437—Vertebrate Physiology * (4-units) (7W1)
NROS 420 - Neuroscience of Survival (3-units) (7W2)



Physiology

- ECOL 437—Vertebrate Physiology * (4-units) (7W1)
PSIO 201—Human Anatomy & Physiology I * (4-units) (7W1)
PSIO 202—Human Anatomy & Physiology II * (4-units) (7W2)
NROS 420 - Neuroscience of Survival (3-units) (7W2)

PSIO 201 & PSIO 202 must be taken together to apply towards degree.
Must check upper-division units with advisor if taking this set.

Science & Society

- CHS 421 - Sociology of Drugs and Addiction (3-units) (7W2)
ECOL 360—Marine Ecology & Conservation (3-units) (7W1)
ECOL 409—Evolution of Infectious Disease (3-units) (7W2)
ECOL 406—Conservation Biology (3-units) (7W2)
EPID 309—Introduction to Epidemiology (3-units) (all semester)
LAW 459—Public International Environmental Law (3-units) (7W2)
PA 321—Medical Ethics (3-units) (7W1 & 7W2)
PHIL 347—Neuroethics (3-units) (7W1)
PHP 305 - Population Health in the Digital Age (3-units) (all semester)
PHP 308—Community Health Ed for Disease Outbreaks (3-units) (7W1)

