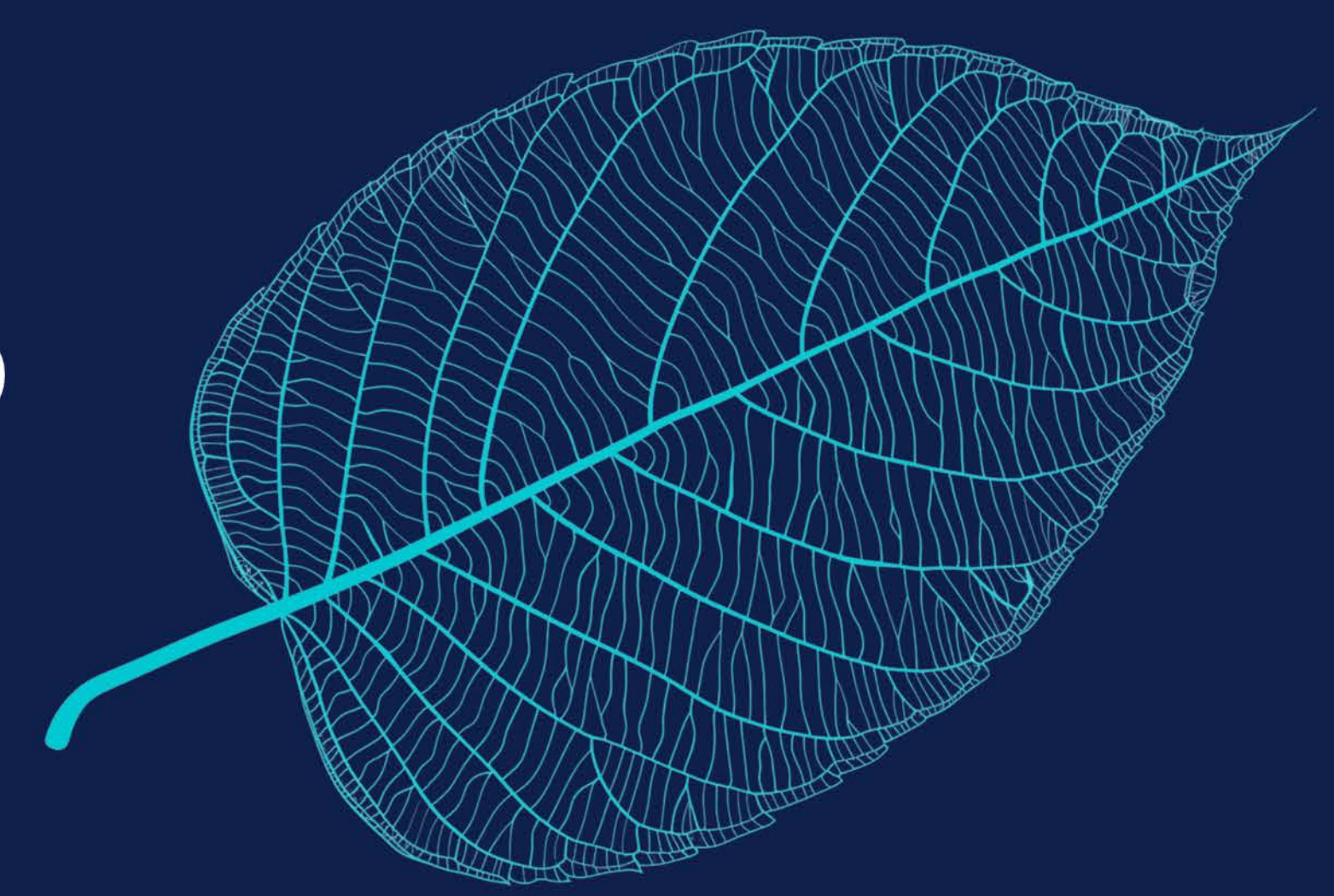




BIOINFORMATICS ELECTIVES

Fall 2025 Online



Courses in **BOLD** satisfy the **WRITING EMPHASIS** requirement. Students may only use a course once within their major electives.

CELL & MOLECULAR BIOLOGY

ECOL 326 - Genomics (3) (7W2)
ECOL 345 - Biodiversity and the Tree of Life (3) (7W1)
IMB 401 - Medical Microbiology and Immunology (4) (REG)
MCB 410 - Cell Biology (3) (7W2)
NROS 307 - Cellular Neurophysiology (3) (7W2)
NROS 310 - Molecular and Cellular Biology of Neurons (3) (7W1)
NROS 412 - Molecular Mechanisms of Learning and Memory (3) (7W2)
NROS 430 - Neurogenetics (3) (7W2)
PLP 428R - Microbial Genetics (3) (7W2)

GENETICS

ECOL 326 - Genomics (3) (7W2)
ECOL 345 - Biodiversity and the Tree of Life (3) (7W1)
NROS 430 - Neurogenetics (3) (7W2)
PLP 428R - Microbial Genetics (3) (7W2)

ORGANISMAL BIOLOGY

ECOL 409 - Evolution of Infectious Disease (3) (7W2)
ECOL 484 - Ornithology (4) (REG)
ECOL 485 - Mammalogy (4) (7W2)
ECOL 487L - Animal Behavior Lab (1) (7W1)
ECOL 487R - Animal Behavior (1) (7W1)
IMB 401 - Medical Microbiology and Immunology (4) (REG)
IMB 402 - Medical Microbiology Basics (1) (7W1)
IMB 404 - Medical Virology Basics (1) (7W2)
IMB 406 - Human Immunology (3) (REG)
NROS 381 - Animal Brains, Signals, Sex, and Social Behaviors (3) (7W2)
PLP 428R - Microbial Genetics (3) (7W2)



PHYSICAL SCIENCE

GEOS 330 - Introduction to Remote Sensing (3) (7W2)
HWRS 350 - Principles of Hydrology (4) (REG)
RNR 417 - GIS for Natural and Social Sciences (3) (REG)

ECOLOGY, EVOLUTION, & BEHAVIOR

ECOL 326 - Genomics (3) (7W2)
ECOL 345 - Biodiversity and the Tree of Life (3) (7W1)
ECOL 409 - Evolution of Infectious Disease (3) (7W2)
ECOL 487L - Animal Behavior Lab (1) (7W1)
ECOL 487R - Animal Behavior (1) (7W1)
GEOS 330 - Introduction to Remote Sensing (3) (7W2)
NROS 381 - Animal Brains, Signals, Sex, and Social Behaviors (3) (7W2)
RNR 417 - GIS for Natural and Social Sciences (3) (REG)
WFSC 385 - Zoo and Aquarium Conservation (3) (REG)

SCIENCE & SOCIETY

CHS 421 - Sociology of Drugs and Addiction (3) (7W2)
ECOL 409 - Evolution of Infectious Disease (3) (7W2)
EPID 309 - Introduction to Epidemiology (3) (REG)
HIST 311 - History of Epidemics (3) (7W1)
HPS 306 - Drugs and Society (3) (7W2)
HPS 387 - Health Disparities & Minority Health (3) (7W1)
MAS 425 - Latino Health Disparities (3) (7W2)
MCB 404 - Bioethics (3) (REG)
PHIL 321 - Medical Ethics (3) (7W1, 7W2)
PHIL 347 - Neuroethics (3) (REG)
PHP 305 - Population Health in the Digital Age (3) (7W2)
PHP 308 - Community Health Education for Disease Outbreaks (3) (7W1, 7W2)

BIOINFORMATICS

BIOC 384 - Fundamentals of Biochemistry (3) (REG)
BIOC 385 - Metabolic Biochemistry (3) (REG)
ECOL 302 - Ecology (4) (REG)
GAME 310 - Gamification in Society (3) (REG)
GAME 452 - Advanced Game Development (3) (7W2)
ISTA 321 - Data Mining and Discovery (3) (7W1, 7W2)
ISTA 322 - Data Engineering (3) (7W1, 7W2, REG)
NETV 301 Virtualization: Applications and Best Practices (3) (7W2)
NETV 379 Cloud Computing (3) (7W1)

