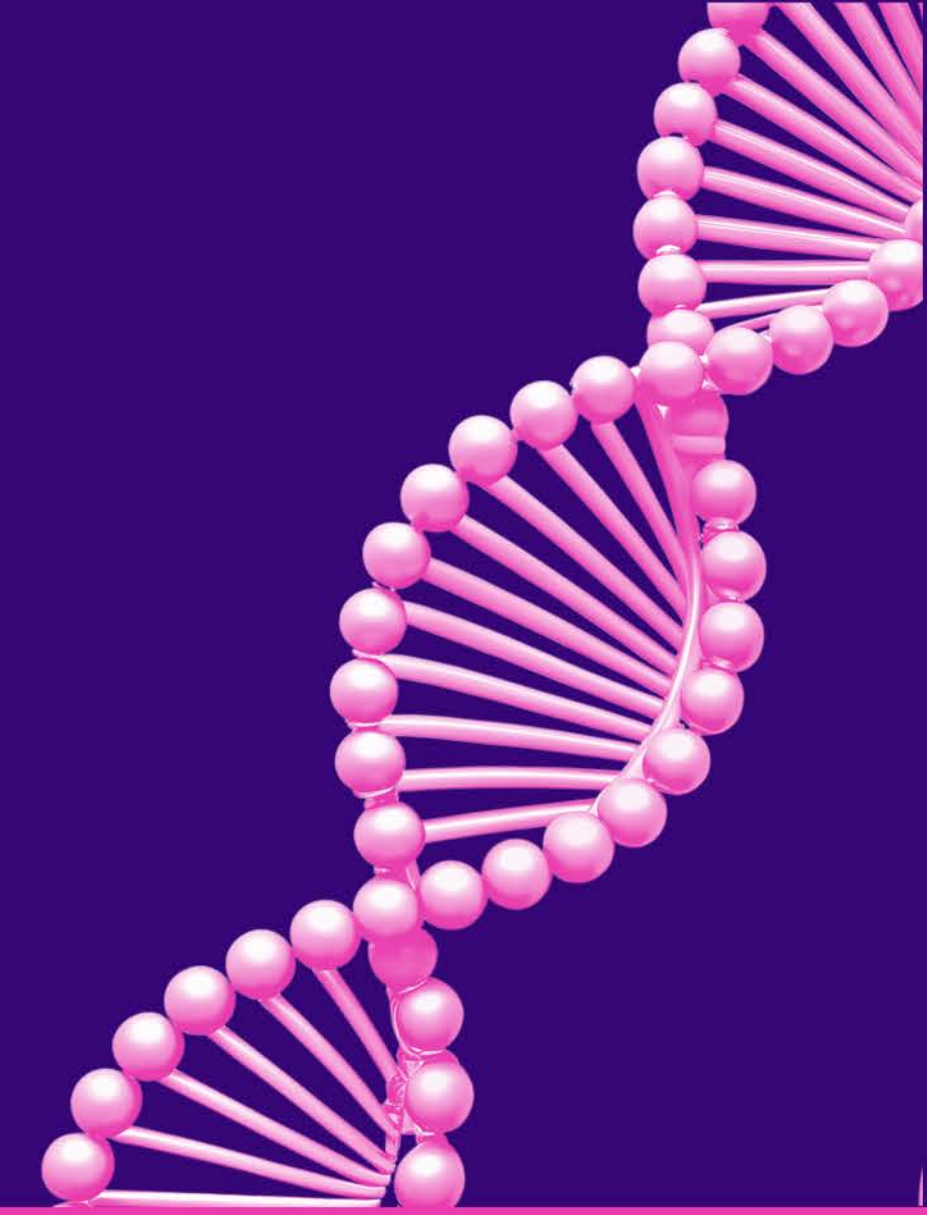




# BIOINFORMATICS ELECTIVES

*Summer 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) (5W1)  
ECOL 345 - Biodiversity and the Tree of Life (3) (5W1)  
ENVS 477 - Principles of Ecotoxicology (3) (13W)  
IMB 401 - Medical Microbiology and Immunology (4) (13W)  
MCB 410 - Cell Biology (3) (7W2)  
MCB 411 - Molecular Biology (3) (7W1)  
**MCB 422 - Problem Solving with Genetic Tools** (3) (5W1)

## GENETICS

ECOL 326 - Genomics (3) (5W1)  
ECOL 345 - Biodiversity and the Tree of Life (3) (5W1)  
**MCB 422 - Problem Solving with Genetic Tools** (3) (5W1)

## SCIENCE & SOCIETY

ECOL 406R - Conservation Biology (3) (5W1)  
ECOL 409 - Evolution of Infectious Disease (3) (5W2)  
**HIST 311 - History of Epidemics** (3) (7W1)  
HPS 387 - Health Disparities & Minority Health (3) (5W2)  
**MCB 404 - Bioethics** (3) (7W2)  
PHIL 321 - Medical Ethics (3) (5W1, 7W1, 5W2, 7W2)  
PHIL 323 - Environmental Ethics (7W1, 5W2, 7W2)  
PHIL 347 - Neuroethics (3) (7W1)

## ORGANISMAL BIOLOGY

ECOL 409 - Evolution of Infectious Disease (3) (5W2)  
**ECOL 437 - Vertebrate Physiology** (4) (5W2)  
**ECOL 488 - Arizona Mammals ^** (4) (5W1)  
IMB 401 - Medical Microbiology and Immunology (4) (13W)  
IMB 402 - Medical Microbiology Basics (1) (7W1)  
IMB 404 - Medical Virology Basics (1) (7W2)  
IMB 406 - Human Immunology (3) (13W)

## ECOLOGY, EVOLUTION, & BEHAVIOR

ECOL 326 - Genomics (3) (5W1)  
ECOL 345 - Biodiversity and the Tree of Life (3) (5W1)  
ECOL 406R - Conservation Biology (3) (5W1)  
ECOL 409 - Evolution of Infectious Disease (3) (5W2)  
**ECOL 488 - Arizona Mammals** (4) (5W1)  
ENVS 477 - Principles of Ecotoxicology (3) (13W)  
GEOS 330 - Introduction to Remote Sensing (3) (7W2)  
RNR 417 - GIS for Natural and Social Sciences (3) (7W1)



## PHYSICAL SCIENCE

ENVS 477 - Principles of Ecotoxicology (3) (13W)  
GEOS 330 - Introduction to Remote Sensing (3) (7W2)  
RNR 417 - GIS for Natural and Social Sciences (3) (7W1)

## BIOINFORMATICS

BIOC 384 - Fundamentals of Biochemistry (3) (5W1)  
BIOC 385 - Metabolic Biochemistry (3) (5W2)  
GAME 310 - Gamification in Society (3) (5W1, 5W2)  
ISTA 321 - Data Mining and Discovery (3) (7W1)  
ISTA 322 - Data Engineering (3) (7W2)  
NETV 379 - Cloud Computing (3) (7W1)

