



# BIOINFORMATICS ELECTIVES

Summer



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

## CELL & MOLECULAR BIOLOGY

- CMM 404 - Cell Biology of Disease
- ECOL 326 - Genomics
- ECOL 345 - Biodiversity and the Tree of Life
- ENVS 477 - Principles of Ecotoxicology
- IMB 401 - Medical Microbiology and Immunology
- MCB 410 - Cell Biology
- MCB 411 - Molecular Biology
- MCB 422 - Problem Solving with Genetic Tools**
- MIC 419 - Immunology**
- NROS 307 - Cellular Neurophysiology
- NROS 310 - Molecular and Cellular Biology of Neurons

## GENETICS

- ECOL 326 - Genomics
- ECOL 345 - Biodiversity and the Tree of Life
- MCB 422 - Problem Solving with Genetic Tools**
- WFSC 430 - Conservation Genetics

## SCIENCE & SOCIETY

- CHS 421 - Sociology of Drugs and Addiction
- ECOL 406R - Conservation Biology
- ECOL 409 - Evolution of Infectious Disease
- HPS 387 - Health Disparities & Minority Health
- MCB 404 - Bioethics**
- PCOL 320 - Medical Ethics
- PHIL 321 - Medical Ethics
- PHIL 323 - Environmental Ethics
- PHIL 347 - Neuroethics

## ORGANISMAL BIOLOGY

- ECOL 409 - Evolution of Infectious Disease
- ECOL 437 - Vertebrate Physiology**
- ECOL 488 - Arizona Mammals**
- IMB 401 - Medical Microbiology and Immunology
- IMB 402 - Medical Microbiology Basics
- IMB 404 - Medical Virology Basics
- IMB 406 - Human Immunology
- PLP 329A - Microbial Diversity

## ECOLOGY, EVOLUTION, & BEHAVIOR

- ANTH 307 - Ecological Anthropology**
- ECOL 326 - Genomics
- ECOL 345 - Biodiversity and the Tree of Life
- ECOL 406R - Conservation Biology
- ECOL 409 - Evolution of Infectious Disease
- ECOL 488 - Arizona Mammals**
- PLP 329A - Microbial Diversity
- RNR 417 - Geographic Information Systems for Natural and Social Sciences
- WFSC 385 - Zoo and Aquarium Conservation
- WFSC 444 - Wildlife Ecology, Conservation, and Management**
- WFSC 447 - Wildlife Conservation Behavior



## PHYSICAL SCIENCE

- RNR 417 - Geographic Information Systems for Natural and Social Sciences

## BIOINFORMATICS

- BIOC 384 - Fundamentals of Biochemistry
- BIOC 385 - Metabolic Biochemistry
- GAME 310 - Gamification in Society
- ISTA 321 - Data Mining and Discovery
- ISTA 322 - Data Engineering
- ISTA 421 - Introduction to Machine Learning

