

## Summer Offering

# BIOINFORMATICS ELECTIVES

Students may only use a course once within their major electives. Courses that are part of the core of your particular major track may not also be used as electives (e.g. MCB 301 or BIOC 384 in the MCB track). Courses with a ^ may have an online component. Other options are available that students don't typically meet the pre-requisite for. Please contact your advisor for more info if you are taking additional math and computer science coursework that may satisfy the pre-requisite.

### BIOLOGICAL OPTIONS

ECOL 326 - Genomics^  
ECOL 430 - Conservation Genetics  
ECOL 437 - Vertebrate Physiology^  
ECOL 488 - Arizona Mammals  
MCB 410 - Cell Biology^  
MCB 422 - Problem Solving with Genetic Tools^  
MIC 419 - Immunology  
PLP 329A - Microbial Diversity

### COMPUTER SCIENCE OPTIONS

ISTA 321 - Data Mining & Discovery

Please note that courses offered by the MCB department will only be available to MCB majors during priority registration and enrollment is not guaranteed.

Courses in the PSIO department are reserved for majors only. Please follow up with the PSIO department to determine if seats are available to non-majors.

Some other (non-elective) coursework is available over summer to satisfy degree requirements.

MCB 181R + L - Introductory Biology I Lecture^ + Lab  
ECOL 182 R + L - Introductory Biology II Lecture^ + Lab  
ECOL 320 - Genetics  
PSIO 201 - Human Anatomy & Physiology I  
PSIO 202 - Human Anatomy & Physiology II  
MATH 263 - Biostatistics  
MATH 122A + B - Calculus I

CHEM 151 or 141 + 143- General Chemistry I  
CHEM 152 or 142 + 144 - General Chemistry II  
CHEM 241A + 243A - Organic Chemistry I  
CHEM 241B + 243B - Organic Chemistry II  
BIOC 384 - Foundations in Biochemistry  
BIOC 385 - Metabolic Biochemistry  
ISTA 130 - Computational Thinking & Doing^