

## Spring Offerings

### Bioinformatics Major Electives

Courses with a ^ might be offered as an iCourse. Courses listed on this sheet may not necessarily be offered every semester. All pre-requisites must be met prior to enrolling. This list shows courses that are typically offered. Some courses may not be available.

#### **BIOLOGICAL OPTIONS**

BIOC 384 – Fundamentals of Biochemistry^  
BIOC 385 – Metabolic Biochemistry^  
ECOL 330 – Evolution of Animal Form and Function  
ECOL 360 – Marine Ecology & Conservation  
ECOL 406R – Conservation Biology  
ECOL 409 – Evolution of Infectious Disease^  
ECOL 426 – Population Genetics  
ECOL 475 – Freshwater and Marine Algae  
ECOL 483 – Herpetology  
ECOL 484 – Ornithology  
GEOS 412A – Ocean Sciences  
MCB 301 – Molecular Basis of Life  
MCB 416A – Statistical Bioinformatics & Genomic Analysis  
MCB 422 – Problem Solving with Genetic Tools^  
MCB 473 – Recombinant DNA Methods and Applications  
MIC 328R – Microbial Physiology Lecture  
MIC 425 – Environmental Microbiology  
PLP 428L – Microbial Genetics Laboratory  
PLP 428R – Microbial Genetics Lecture^  
PLP 428R – Microbial Genetics  
PLS 312 – Plant & Animal Genetics  
PLS 333 – General Virology  
PLS 340L – Biotechnology Laboratory

#### **COMPUTER SCIENCE OPTIONS**

CSC 335 – Object-Oriented Programming and Design  
CSC 401B – Symbolic Logic  
ISTA350 – Programming for Informatics Applications  
MATH 481 – Mathematical modeling of fluid flow through and around organs and organisms