## Bioinformatics Major Electives

**Fall 2019**

### Biological Options
- BIOC 384 – Fundamentals of Biochemistry
- BIOC 385 – Metabolic Biochemistry
- ECOL 326 – Genomics
- **ECOL 340 – Evolution of Plant Form and Function**
- ECOL 447 Intro to Theoretical Ecology
- ECOL 450 – Marine Discovery
- **ECOL 482 Ichthyology**
- ECOL 485 – Mammalogy
- **ECOL 487 R/L – Animal Behavior**
- ECOL 496J Plant Population Ecology
- ENTO 415 R - Insect Biology
- GEOS 439 A - Introduction to Dendrochronology
- MCB 315 - Key Concepts in Quantitative Biology
- MCB 325 – The Biology of Cancer
- MCB 340 - Introduction to Biotechnology
- **MCB 422 - Problem Solving with Genetics Tools**
- MCB 480 - Introduction to Systems Biology
- **MIC 419 Immunology**
- MIC 421 B –Microbiological Techniques
- MIC 425 - Environmental Microbiology
- PLP 305 –Introductory Plant Pathology
- PLP 329 A –Microbial Diversity
- PLP 427 R/L –General Mycology

### Mathematics Options
- MATH 310 – Applied Linear Algebra
- MATH 313 – Introduction to Linear Algebra
- MATH 355 – Analysis of Ordinary Differential Equations
- MATH 362 – Introduction to Probability Theory
- MATH 413 – Linear Algebra

### Computer Science Options
- CSC 335 – Object Oriented Programming and Design
- CSC 352 – Systems Programming and Unix
- CSC 401 A – Symbolic Logic
- CSC 444 – Data Visualization
- CSC 460 – Database Design
- ISTA 421 – Introduction to Machine Learning

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 in bold are writing emphasis.*