# THE NEW BIOLOGY MAJOR

## CHOOSE WHERE YOU START:

### MOLECULES, GENES, & CELLS

**BIO 110**

Biological Macromolecules
DNA & Heredity
The Central Dogma
Genetic Basis of Evolution
Cell Division
Viruses
Prokaryotes & Eukaryotes
Cell & Membrane Structure
Metabolism

### FORM & FUNCTION OF LIVING SYSTEMS

**BIO 120**

Natural Selection
Speciation
Evolutionary Trees
Reproduction
Water & Ion Balance
Circulation
Digestion
Sensation & Movement
Thermoregulation

### POPULATIONS, ECOSYSTEMS, & GLOBAL CHANGE

**BIO 130**

Foundations of Ecosystems
Population Ecology
Species Interactions
Energy Flow
Nutrient Cycling
Climate Systems
Biodiversity & Evolution
Conservation
Global Change Policy

- These courses can be taken concurrently or in any order
- Passing AP, IB, or A-Level scores receive credit for **BIO 115** Introductory Bio - Exam Equivalency
- Specific 100-level foundational courses are prerequisites for 300-level courses
- 400-level and research courses require **BIO 220** Data Literacy

# TAKE:

## MOLECULES, GENES, & CELLS
**BIO 110**

## FORM & FUNCTION OF LIVING SYSTEMS
**BIO 120**

## POPULATIONS, ECOSYSTEMS, & GLOBAL CHANGE
**BIO 130**

## DATA LITERACY
**BIO 220**

# AND LEVEL UP*:

**BIO 300** Cell Biology
**BIO 301** Microbiology
**BIO 303** Biochemistry of the Cell
**BIO 310** Genetics
**BIO 322** Human Physiology
**BIO 370** Immunology

**BIO 321** Plant Physiology
**BIO 326** Human Anatomical Systems
**BIO 327** Comparative Anatomy & Embryology
**BIO 336** Field Botany
**BIO 338** Invertebrate Zoology
**BIO 374** Pharmacology & Toxicology

**BIO 313** Conservation Genetics
**BIO 330** Public Health Biology
**BIO 331** Nature of Diversity
**BIO 335** Agroecology
**BIO 337** Economic Botany
**BIO 343** Environmental Systems

**BIO 431** Landscape Ecology & Conservation
**BIO 436** Forest Ecology
**BIO 447** Animal Physiology
**BIO 460** Neurobiology
**BIO 499** Science Communication
**BIO 510** Thesis

***other prerequisites may apply**

# The New Biology Major

## Curricular Structure for B.S. Tracks

