

# Biological Sciences

♣ Cross-listed Course

General Elective

Core Major

General Major

## Undergraduate

Biological Science 1,2

Advanced General Biology 1,2

General Chemistry 1,2

### MCB Track (Molecular and Cellular Biology)

Introduction to Life Science  
Microbiology  
Cell Biology  
Molecular Biology  
Genetics and Genomics  
Animal Physiology  
Biochemistry  
Biophysics

Molecular Plant Science  
Plant Physiology  
Microbial Genetics and Physiology  
Human Reproduction  
Immunology and Human Defense  
Neurogenetics  
Animal Development  
Brain Science  
♣ Organic Chemistry 1,2  
♣ Physical Chemistry 1,2

Genetic Engineering  
Virology  
Translational Biology  
Disease Biology and Biochemistry  
Infection Response Biology  
Tumor Biology  
Molecular & Cellular Glycobiology  
Regulation of Metabolism  
Biomolecular Structure and Function

### EEOB Track (Evolution, Ecology and Organismal Biology)

Plant Taxonomy  
Biostatistics  
Ecology  
Evolution  
Conservation Biology  
Molecular and Environmental Biology

### IS Track (Individual Study)

Individual Studies in Biological Science 1  
Individual Studies in Biological Science 2  
Senior Thesis

## Graduate

### MCB Track (Molecular and Cellular Biology)

**Basic courses**  
Advanced Molecular Biology  
Advanced Virology  
Advanced Genetics  
Advanced Animal Physiology  
Protein Biochemistry  
Techniques in Molecular Biology  
Molecular Cell Biology

**Advanced courses**  
Special Topics In Structural Biology  
Biology Signal Transduction  
Endocrinology  
Plant Hormones  
Immuno-Physiology  
Microbial physiology

**Specific courses**  
Advances In Molecular Medicine  
Topics in Molecular Neurogenetics  
Development of Bioactive Molecules  
Topics in Protein Interactions  
Molecular Glycobiology  
Molecular Cancer Biology

### EEOB Track (Evolution, Ecology and Organismal Biology)

**Basic courses**  
Plant Systematics  
Advanced Ecology  
Population Ecology  
Community Ecology  
Advanced Evolutionary Biology

**Advanced courses**  
Advanced Phycology  
Experimental Design and analysis  
Plant Phylogenetics  
Advances in molecular and environmental biology

**Specific courses**  
Marine Ecology  
Advanced Conservation Biology  
Methodology in Environmental Monitoring