

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

***BIOLOGY***

*Biology is the study of the principles governing living organisms, and spans a continuum of organization from molecules and cells to individuals and ecosystems.*



College of Science and Technology

# **BIOLOGY**

## **Bachelor of Arts and Bachelor of Science**

### **Program Choices**

Students can pursue a bachelor of arts or a bachelor of science. The BA offers overall breadth; the BS offers greater depth in biology and related sciences. The BS provides strong preparation for students planning to attend professional or graduate school in biology or related disciplines, and it is recommended for those who will enter the scientific workforce upon completion of a bachelor's degree. The BA, which also provides the essential background for professional schools, is for those planning for careers in fields in which a science background will be advantageous.

### **Courses include:**

- Bioinformatics
- Biotechnology
- Cell Structure and Function
- Comparative Animal Physiology
- Developmental Genetics
- Embryology
- Endocrinology
- Evolution
- Freshwater Ecology
- Human Genetics
- Immunology
- Invertebrate Biology
- Mammalian Physiology
- Marine Ecology
- Organogenesis
- Tropical Marine Biology
- Virology

### **Career Options**

Individuals with a degree in biology enter careers in many areas. Many biology majors become physicians, physician-assistants, dentists, veterinarians, physical therapists, optometrists, nurses, podiatrists and clinical workers. Some graduates enter the pharmaceutical, biotechnology or environmental fields; others pursue a career in education. Students may also choose to pursue advanced academic programs that culminate in a PhD degree.

### **Faculty Contacts**

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### **Research Opportunities**

Real-world, hands-on research means students learn the latest scientific techniques, from the necessary basics to high-tech analysis to potential scientific breakthroughs. The Biology Department has a strong research program supported by the National Science Foundation and other funders. Students are encouraged to participate in a research project in a faculty lab, to present at the Annual Undergraduate Research Program symposium, or potentially to publish their work in a scientific journal.