



BACHELOR OF ARTS

## ***NATURAL SCIENCES***

*Natural sciences encompasses the fields of biology, chemistry, geology and physics, and requires a firm foundation in the mathematics that support these sciences.*



College of Science and Technology

# **NATURAL SCIENCES**

## **Bachelor of Arts**

### **Program Choices**

The bachelor of arts in natural sciences provides students with a broad scientific perspective, preparing them for exciting areas of scientific inquiry, including neuroscience, environmental science and biophysical science. The major's introductory portion includes differential and integral calculus, algebra- or calculus-based physics, general chemistry, a year of biology, and a semester each of geology and computer programming. After students complete the introductory requirements, they take a qualifying examination before choosing a concentration area in chemistry, biology, geology or physics.

### **Courses include:**

- Cell Structure and Function
- Climate Change: Oceans to Atmosphere
- Differential and Integral Calculus
- Experimental Physics
- Genetics
- Introduction to Astronomy
- Introduction to Modern Physics
- Perspectives on Science and Mathematics
- Physical Geology
- Research Methods
- Scientific Writing for Biology
- Techniques of Chemical Measurement

### **Research Opportunities**

Real-world, hands-on research means students learn the latest scientific techniques, from the necessary basics to high-tech analysis. The Department of Earth & Environmental Science has a strong research program covering areas such as coastal dynamics, environmental geophysics, hydrogeology and groundwater contamination, and planetary and structural geology. Students are encouraged to participate in a research project in a faculty lab, either through the Undergraduate Research Program (URP) or separately. Students can present their work at the annual URP symposium or potentially have their work published in a scientific journal.

### **Career Options**

The natural sciences program prepares students for graduate study or technical careers in the neurosciences, environmental sciences and biophysical sciences fields, as well as for careers in health sciences, legal professions, science education and science-related business. This program does not prepare students for graduate study in a traditional science discipline or for technical employment in a traditional science discipline.

### **Faculty Contact**

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