

# Geosciences



The Department of Geosciences offers courses that range from the study of minerals, to volcanoes, earthquakes, and the Earth's deep interior. The courses utilize diverse approaches which involve working directly with geological materials in the laboratory, as well as mapping and sampling geological materials in the field. These are supplemented by courses taken in astronomy and atmospheric science and the basic sciences.

## SKILLS ACQUIRED

- The understanding of the Earth and Planets as dynamic systems
- Observational, analytical and quantitative research skills
- Ability to apply chemical, physical and mathematical concepts in the study of the Earth and Planets
- Ability to communicate observations and research findings to a variety of audiences
- Complex problem solving

## PROGRAMS

- BS in Geology
- BA in Earth and Space Sciences
- Accelerated 5-year BS/MS programs:
  - Teaching: obtain both a BA in Earth and Space Sciences/Science Education track and MA in Teaching Earth Science degrees
  - Business: Geology or Earth and Space Sciences majors may apply to the MBA Fast Track program and earn their BA and MBA
  - Public Health: Earth and Space Sciences majors may apply to the Program in Public Health accelerated program to earn both their BA degree and MS in Public Health





**Victoria Castle '24**  
**Geology major**  
**2023 Frances Velay Women and Science Research Fellow**

*"I was drawn to the Geology major and wanted to be able to experience it fully by doing hands-on research. As I learned in classes about the incredible things geologists were doing to expand what we know about our earth, I realized that I wanted to be a part of that – to contribute to what we know about this world."*

## CAREERS TO EXPLORE

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- Teaching
- Research
- Government / Public Policy
- Public Health
- Law
- Business
- Energy Industry
- Natural Resource and Hazard Management
- National Security

## WHERE GRADUATES HAVE WORKED

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- United States Geological Survey
- NYS Department of Conservation
- NASA Goddard Space Flight Center
- Suffolk County Water Authority
- Brookhaven National Laboratory
- Environmental Consulting Firms
- Middle School / High School Educators

## RESEARCH OPPORTUNITIES

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All faculty within our Department have active research programs that welcome undergraduate participation. Some of our undergraduate researchers have presented their work at national conferences, providing an academic experience that makes them uniquely attractive to employers and graduate schools.

- Ability to conduct research with faculty in their labs, at national and international large scale research facilities and in the field
- Study Abroad Opportunity – at the Turkana Basin Institute, Kenya