A geology degree provides an understanding of issues associated with the physical earth and skills which are in demand in today's job market. The geology graduate will have a detailed understanding of climate change, sustainability of the Earth's resources, and the close interplay between human activity and the environment.

**About this Program**
- **College:** Liberal Arts and Sciences ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS))
- **Degrees:** Bachelor of Arts ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BA](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BA)) | B.A.: Environmental Geosciences ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BA01](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BA01)) | Bachelor of Science ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BS](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BS))
- **Credits for Degree:** 120
- **Additional Information**
- **Related Geology Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Techniques such as environmental assessment, geological hazard assessment, field-based techniques, and geographic information systems (GIS) are used to evaluate the impact of humans on the physical earth and hydrologic environment. The practical and flexible curriculum, small class sizes, computer-based learning, strong faculty, and coursework in several areas of general education make this major appealing to students who want skills linked to employment or preparation for entry to professional schools (e.g., law, medicine, business).

Geology majors learn about the Earth's physical environment including climate, non-renewable geological resources, renewable geological resources, geological hazards and remediation as well as basic skills required by geologists. These skills and the geological perspective open doors to employment in government agencies and private firms that deal with water management, mining and petroleum exploration, climate change, the environment, and education.

**Coursework for the Major**

The geology major has three different specializations: the Bachelor of Arts, the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geography), and the Bachelor of Science. Students who are uncertain which program best suits them should consult the Department of Geology's undergraduate coordinator for information and guidance on curriculum planning.

**Bachelor of Arts**

This degree is the most flexible degree, and best suited for students interested in careers in education or environmental policy making. The degree also allows students flexibility to pursue advanced degrees in environmental law or environmental medicine.

**Bachelor of Arts | Environmental Geosciences**

Co-offered by the Department of Geography, this specialization is designed for students interested in land and water aspects of the environment. It can be tailored to focus on water and mineral exploration and management, geological hazards, environmental planning, resource sustainability, or earth science education.

**Bachelor of Science**

This degree is designed for students planning to take the professional geology (PG) licensure exam and/or to continue on to graduate study in geology. It emphasizes a core understanding of petrology, structural geology, field methodology and paleontology, and it requires significant introductory coursework in calculus, general chemistry, and physics.

**Research**

Students in geology who wish to graduate with high or highest honors will be required to conduct an independent research project under the direction of a faculty member. Students are also afforded the opportunity to conduct research within the department's laboratories regardless of their honors status.

**Related Geology Programs**
- **Combined Degree** ([http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees](http://catalog.ufl.edu/UGRD/academic-programs/combined-degrees))
- **Bachelor of Arts in Geology, UF Online** ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_UFO](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_UFO))
- **Geology minor** ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_UFO](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_UFO))
- **Geological Sciences certificate** ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/LAS_UCT18](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/LAS_UCT18))

**Academic Learning Compact**

**Bachelor of Arts**

The Bachelor of Arts in geology provides knowledge of the basic concepts related to earth materials and processes, and how to collect and organize geological data in the field. Through laboratory and field-based exercises, students will learn how to interpret geologic maps and cross sections, and to understand the application of the scientific method to solve these problems in teams and individually.

**Before Graduating Students Must**
- Pass GLY 4155C Geology of Florida according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

**Students in the Major Will Learn to**

**Student Learning Outcomes (SLOs)**

**Content**

1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Collect data in the field.
3. Organize geologic, temporal and spatial data.

**Critical Thinking**
4. Interpret geologic maps and cross sections.
5. Interpret results using the scientific method.

**Communication**
6. Produce a clearly and effectively written synthesis of data collected in the field.
7. Work in teams to solve geologic problems and to present the results of such collaboration effectively.

**Curriculum Map**

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**Assessment Types**
- Lab assignments
- Projects
- Exams

**Bachelor of Science**
The Bachelor of Science in geology provides knowledge of the basic concepts, theories, observational findings related to earth materials and processes, minerals and rocks, geologic time, stratigraphy and landforms. Through laboratory and field-based exercises, students will learn how to analyze data in the published literature, synthesize analog and digital datasets to produce geologic maps, and understand the application of the scientific method to solve geological problems in teams and individually.

**Before Graduating Students Must**
- Pass GLY 4790 Summer Field Camp according to the department grading rubric.
- Complete requirements for the baccalaureate degree, as determined by faculty.

**Students in the Major Will Learn to**

**Student Learning Outcomes (SLOs)**

**Content**
1. Identify, describe and define the basic concepts related to earth materials and processes.
2. Identify and describe minerals and rocks.
3. Define geologic time, stratigraphy and landforms.

**Critical Thinking**
4. Analyze data in the published literature.
5. Synthesize analog and digital datasets to produce geologic maps.
6. Apply the scientific method to the analysis of published and self-generated data.

**Communication**
7. Use computers for the presentation of geologic maps and data.
8. Solve geologic problems in teams and present the result of such collaboration effectively.