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
- **Degrees:** Bachelor of Arts | B.A.: Environmental Geosciences | Bachelor of Science
- **Credits for Degree:** 120
- **Additional Information**
- **Related Geology Programs**

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

Critical Tracking records each student’s progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- Complete one critical-tracking course with laboratory (GEO 2200/GEO 2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 3

- Complete the other critical-tracking course with laboratory (GEO 2200/GEO 2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete STA 2023 and maintain a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete 2 additional GLY or GEO courses with a 2.5 critical-tracking GPA. (GLY 2100C or GEO 3105C recommended)
- 2.0 UF GPA required

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically GE-C, H or S).

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student’s academic record and scheduling availability of courses. Prerequisites still apply.

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<th>Title</th>
<th>Credits</th>
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Semester Six
GLY 3202C Earth Materials 3
Geology elective 3-4
Electives (3000 level or above, not in major) 9
Credits 15-16

Semester Seven
Geography elective 3-4
Geology elective 3-4
Electives 9
Credits 15-16

Semester Eight
GLY 4155C Geology of Florida 3
Geography electives 6-8
Electives 7
Credits 16-18
Total Credits 120

Electives to reach the 120-credit total will vary depending on whether students select minimum or maximum credit course options.

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
I = Introduced; R = Reinforced; A = Assessed

Courses SLO 1 SLO 2 SLO 3 SLO 4 SLO 5 SLO 6 SLO 7
GLY 2010C I I I I I I
GLY 2100C R R R I R
GLY 3202B R R R
GLY 3603 R R R
Capstone

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 geological 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.

Curriculum Map
I = Introduced; R = Reinforced; A = Assessed

Courses SLO 1 SLO 2 SLO 3 SLO 4 SLO 5 SLO 6 SLO 7 SLO 8
GLY 2010C I I I I I I
GLY 2100C R R R I R I R
GLY 3202BC R R R
GLY 431R R R R R R
GLY 4790A A A A A A A A
Capstone

Assessment Types
• Six weeks of practical field exercises and mapping, including observation and data collection in New Mexico and the western USA