GENERAL GEOLOGY | BA

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 (https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/)
- **Degrees:** Bachelor of Arts | Bachelor of Science
- **BA | Specializations:** Environmental Geosciences (https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BA01/) | General Geology (p. 1)
- **BS | Specializations:** Environmental Geosciences (https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BS02/) | General Geology (https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BS03/) | Geophysics (https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/GLY_BA_BS/GLY_BS01/)
- **Credits for Degree:** 120
- **More Info**

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

Department Information

The Department of Geological Sciences aims to provide a comprehensive understanding of Earth and Planetary sciences along with their formative and evolutionary processes. Geological Sciences trains students to excel in the geoscience workforce and create sustainable solutions to societal needs.
Website (http://geology.ufl.edu/)

CONTACT

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Map (http://campusmap.ufl.edu/#/index/0100)

Curriculum

- Combination Degrees
- Geological Sciences Certificate
- Geology Minor
- Geology UF Online

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 into 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.

The General Geology Bachelor of Arts is the most flexible degree, and is 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.

Requirements for the major

The General Geology BA requires a minimum of 32 credits of coursework in the major. At least 23 credits must be GLY-prefixed courses at the 3000 level or above, excluding GLY 3105C.

Students must earn a minimum grade of C for coursework to count toward the major. A minimum of 15 credits of required geology courses must be UF credit.

Required Major Coursework for the General Geology BA

Code	Title	Credits
Select one general introductory course:		3-4
GLY 2010C	Physical Geology	
GLY 2030C	Environmental and Engineering Geology	
Any 1000-2000-level GLY, OCE or ESC course		
Select one historical geology courses:		4
GLY 3105C	Evolution of Earth and Life	
GLY 2100C	Historical Geology	
Required Major Coursework: 22-25 credits		
GLY 3202C	Earth Materials	3-4
or GLY 3200C	Principles of Mineralogy	
Additional Geology courses at the 3000 level or higher [1]		17
1000-4000 level Geology course		2-4
Required Major Capstone Course: 3 credits		
GLY 4155C	Geology of Florida	3
Total Credits		**32-36**

[1] Excluding GLY 3105C; minimum 17 credits.

Critical Tracking

For degree requirements outside of the major, refer to CLAS Degree Requirements: Structure of a CLAS Degree *(*https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/#degreerequirementstext*).*

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

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (https://cpm.flvc.org/advance-search/) may be used for transfer students.

Semester 1

- 2.0 UF GPA required

Semester 2

- 2.0 UF GPA required

Semester 3

- Complete one General Education Mathematics course
- Complete 1 of 3 critical-tracking courses with a 2.5 critical-tracking GPA. Select one from a general introductory course (GLY 2010C, GLY 2030C, or any 1000-2000 level GLY, OCE or ESC course), a historical geology course (GLY 3105C or GLY 2100C), or a 3000-level geology course.

  GLY 2010C or GLY 2030C is recommended as one of these is prerequisite to many upper-level courses.
- 2.0 UF GPA required

Semester 4

- Complete one additional critical-tracking course with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all tracking courses with a 2.5 critical-tracking GPA; one general introductory course (GLY 2010C, GLY 2030C, or any 1000-2000 level GLY, OCE, or ESC course), one historical geology course (GLY 3105C or GLY 2100C), and one 3000-level geology course.
- 2.0 UF GPA required

Semester 6

- Complete 1 GLY elective 3000 level or above (3-4 credits)
- 2.0 UF GPA required

Semester 7

- Complete 2 additional GLY electives 3000 level and above (6-8 credits)
- 2.0 UF GPA required

Semester 8

- Complete any remaining GLY electives 3000 level and above
- Complete GLY 4155C (Capstone) Geology of Florida
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the Writing, Civic Literacy, summer enrollment, and Quest requirements while in the process of taking the courses below. Students are also expected to complete the General Education International (GE-N) requirements concurrently with another General Education requirement (typically, GE-C, H, or S) as part of the CLAS Basic Distribution requirements. One of the two general education mathematics courses must be a pure math course.

College of Liberal Arts and Sciences allows students additional flexibility in its Distribution Requirements. Students may count a maximum of 6 credits TOTAL from the CLAS Distribution course lists towards Humanities, Social and Behavioral Sciences, or Biological and Physical Sciences, with no more than 3 credits of Humanities, 3 credits of Social and Behavioral Sciences, or 6 credits of Biological or Physical Sciences.

The full list of major-specific requirements for this major can be found on the Overview tab. College of Liberal Arts and Sciences degree requirements can be found on the college's degree requirements page (https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/#degreerequirementstext).

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.

Course	Title	Credits
Semester One		
Quest 1		3
State Core Gen Ed Composition (https://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext); Writing Requirement		3
State Core Gen Ed Mathematics (**Critical Tracking**)		3
CLAS Foreign Language Proficiency Requirement [1]		4-5
Gen Ed Physical Sciences		3
	Credits	**16-17**
Semester Two		
Select one:		3-4
GLY 2010C	Physical Geology (**Critical Tracking**; Gen Ed Physical Sciences, Natural Science Laboratory) [2]	
ESC 1000	Introduction to Earth Sciences (**Critical Tracking**; Gen Ed Physical Sciences)	
GLY 1000	Exploring the Geological Sciences (**Critical Tracking**)	
OCE 1001	Introduction to Oceanography (**Critical Tracking**; Gen Ed Physical Sciences)	
State Core Gen Ed Biological Sciences (https://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext)		3
State Core Gen Ed Social and Behavioral Sciences (https://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext)		3
CLAS Foreign Language Proficiency Requirement [1]		3-5
	Credits	**12-15**
Semester Three		
Select one:		4
GLY 2100C	Historical Geology (**Critical Tracking**)	
GLY 3105C	Evolution of Earth and Life (**Critical Tracking**)	
Quest 2		3
Gen Ed Humanities		3
Gen Ed Social and Behavioral Sciences		3
Elective (or CLAS Foreign Language Proficiency Requirement if 4-3-3 option) [1]		3
	Credits	**16**
Semester Four		
GLY 3202C	Earth Materials (**Critical Tracking**)	3
Gen Ed Biological Sciences		3
State Core Gen Ed Humanities (https://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext)		3

Gen Ed Mathematics		3
Gen Ed Social and Behavioral Sciences		3
	Credits	**15**
Semester Five		
Geology elective (**Critical Tracking**; 3000 level or above)		4
Gen Ed Composition; Writing Requirement		3
Gen Ed Humanities		3
Electives (3000 level or above, not in major)		6
	Credits	**16**
Semester Six		
Geology electives (**Critical Tracking**; 3000 level or above)		6
Electives (3000 level or above, not in major)		6
Elective		2
	Credits	**14**
Semester Seven		
Geology electives (**Critical Tracking**; 3000 level or above)		7
Electives		9
	Credits	**16**
Semester Eight		
GLY 4155C	Geology of Florida (**Critical Tracking**)	3
Geology elective		2
Electives (3000 level or above, not in major)		6
Elective (or Gen Ed Physical Science, if not taken in semester two)		3
Elective (or Natural Science Laboratory, if not taken in semester two) [2]		1
	Credits	**15**
	Total Credits	**120-124**

1 CLAS Foreign Language Proficiency Requirement (https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/#degreerequirementstext)

2 Degree Requirements (https://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/#degreerequirementstext)

Academic Learning Compact

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 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	I
GLY 2100C	R	R	R	R	I		R
GLY 3202C	R	R			R		R
GLY 3603	R	R			R	R	
GLY 4155C Capstone	A	A	A	A	A	A	A

Assessment Types

- Lab assignments
- Projects
- Exams