

Bachelor of Arts in Geology

About This Program

Bachelor of Arts in Geology General Option is for students who want to combine Geology with other professional interests.

Competencies

1. Upon graduation, students will demonstrate expertise in the use of methods found within the core disciplines of geology including mineralogy, petrology, sedimentology and stratigraphy, paleontology, and structural geology.
2. Upon graduation, students will be able to interpret geological maps and describe three-dimensional structures of rocks in the earth's crust.
3. Upon graduation, students will be able to analyze scientific data in geoscience.
4. Upon graduation, students will be able to communicate complex information using written reports and oral presentation to both specialists and non-specialists.

Curriculum

Foundations

General Core Requirements (<https://catalog.uta.edu/academicregulations/degree requirements/generalcore requirements/>) 42

Students must select specific courses in certain core areas.

For Communication select:

ENGL 1301	RHETORIC AND COMPOSITION I
ENGL 1302	RHETORIC AND COMPOSITION II

For Life & Physical Sciences select:

PHYS 1441	GENERAL COLLEGE PHYSICS I
PHYS 1442	GENERAL COLLEGE PHYSICS II

For Mathematics select:

MATH 1308	ELEMENTARY STATISTICAL ANALYSIS
MATH 1421	PREPARATION FOR CALCULUS

For U.S. History select:

HIST 1301	HISTORY OF THE UNITED STATES TO 1865
HIST 1302	HISTORY OF THE UNITED STATES, 1865 TO PRESENT

Geology Foundations

Additional hours required in core. 3

UNIV 1131 STUDENT SUCCESS 1

Communication Competence - pass oral presentation requirement in GEOL 3441 or GEOL 3443, or complete COMS 1301, COMS 2302, or equivalent course

Computer Competence - pass Computer Skills Placement test or any computer-related course such as:

GEOL 4330	UNDERSTANDING GEOGRAPHIC INFORMATION SYSTEMS	
BIOL 1441	BIOLOGY I FOR SCIENCE MAJORS: CELL AND MOLECULAR BIOLOGY	4
BIOL 1442	BIOLOGY II FOR SCIENCE MAJORS: ECOLOGY AND EVOLUTION	4
CHEM 1441	GENERAL CHEMISTRY I	4
CHEM 1442	GENERAL CHEMISTRY II	4

Geology Specialization

GEOL 1301	EARTH SYSTEMS	3
GEOL 1302	EARTH HISTORY	3
GEOL 2445	MINERALOGY	4
GEOL 3441	BIOSTRATIGRAPHY AND LIFE THROUGH TIME	4
GEOL 3442	SEDIMENTOLOGY AND STRATIGRAPHY	4
GEOL 3443	STRUCTURAL GEOLOGY	4
GEOL 3446	PETROLOGY AND GEOCHEMISTRY	4

Select 3 GEOL, ENVR, or DATA 3000/4000-level electives approved by the Earth & Environmental Sciences undergraduate advisor 9

Minor and General Electives

Select a minor of at least 18 hours. 18

Select electives sufficient to bring total hours to 120 with at least 36 hours at the 3000/4000-level.

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Total Hours**120****SUGGESTED COURSE SEQUENCE**

Details of a personal course sequence should be made with the guidance of the Earth and Environmental Sciences undergraduate advisor, particularly since many GEOL courses are not offered every semester. Students should also consult with the appropriate department for minor requirements.

First Year

First Semester	Hours	Second Semester	Hours
GEOL 1301		3 GEOL 1302	3
MATH 1421		4 MATH 1308	3
ENGL 1301		3 ENGL 1302	3
CHEM 1441		4 CHEM 1442	4
UNIV 1131		1 Creative Arts	3
		15	16

Second Year

First Semester	Hours	Second Semester	Hours
minor course ¹		3 minor course ¹	3
PHYS 1441		4 POLS 2311	3
BIOL 1441		4 PHYS 1442	4
GEOL 2445		4 BIOL 1442	4
		15	14

Third Year

First Semester	Hours	Second Semester	Hours
GEOL 3443		4 GEOL 3442	4
POLS 2312		3 approved GEOL, ENVR, or DATA advanced (3000/4000- level) elective	4
HIST 1301		3 GEOL 3446	4
HIST 1302		3 HIST 1302	3
General Elective		3	
		16	15

Fourth Year

First Semester	Hours	Second Semester	Hours
GEOL 3441		4 approved GEOL 4000-level elective	1
approved GEOL, ENVR, or DATA advanced (3000/4000-level) elective		3 minor course	6
minor course ¹		3 Language, Philosophy and Culture	3
minor course ¹		3 Foundational Component Area	3
Social/Behavioral Science		3	
		16	13

Total Hours: 120

¹ Hours and course sequence determined by appropriate department.

Advising Resources

First time in college students should plan to speak to a program advisor when starting their second year. or have an academic advising hold. Transfer students should contact program advising when enrolled or have an academic advising hold.

Location:

SH 328C

Email:

kaycee.nikses@uta.edu

Phone:

817-272-9686

Web:

Schedule an appointment (<https://outlook.office365.com/book/PHYSGEOLEESADVISING@mavs.uta.edu/>)