

Bachelor of Science in Geology to Master of Science in Earth and Environmental Science

About This Program

Bachelor of Science in Geology to Master of Science in Earth and Environmental Science (Geoscience) Fast Track will enable outstanding senior undergraduate geology students to satisfy degree requirements leading to a master's degree in environmental science while completing their undergraduate studies. This degree is designed for students who plan to work in the geoscience sectors.

ASSOCIATED PROGRAMS

For detailed information about the programs associated with this Fast Track, refer to their individual degree pages.

Geology BS (Environmental Science)

Earth and Environmental Science MS (Geoscience)

Admissions Criteria

UNCONDITIONAL ADMISSION

Undergraduate Geology students can apply when they are within 30 hours of completing their BS in Geology degree from the University of Texas Arlington (UTA). They must have completed at least 30 hours of study at UTA with a total GPA of 3.3 and earned an overall GPA of 3.3 or better in all college of science courses as well as Earth and environmental science courses taken at UTA. Additionally, they must have completed 16 credit hours of specified undergraduate Fast Track screening courses at UTA that are listed below and earn a GPA of at least 3.3 in these courses. If one of these courses is transferred from another school it will not be included, and an equivalent course determined by the undergraduate advisor will be used as a Fast Track foundation course. Students must meet any other requirements imposed by the BS in Geology and MS in Earth and Environmental Science program.

Undergraduate Screening Courses Required for Admission into the Fast Track program:

1. GEOL 2445 MINERALOGY
2. GEOL 3454 STATISTICS FOR EARTH AND ENVIRONMENTAL SCIENTISTS
3. Two of the following courses:
 - a. GEOL 3441 BIOSTRATIGRAPHY AND LIFE THROUGH TIME
 - b. GEOL 3442 SEDIMENTOLOGY AND STRATIGRAPHY
 - c. GEOL 3443 STRUCTURAL GEOLOGY
 - d. GEOL 3446 PETROLOGY AND GEOCHEMISTRY

Provisional Admission

A student may gain provisional admission if, during the semester in which application is made, he or she will complete any remaining courses needed to satisfy prerequisite requirements. Provisional admission will be changed to unconditional admission upon satisfactory completion of remaining requirements. Students failing to meet all requirements at the end of their semester of application will be removed from the Fast Track program. Any credits earned prior to removal from the program will be applied to the undergraduate degree only. None of the other benefits of the Fast Track program will apply. Provisionally admitted students who have been removed from the program may subsequently apply to graduate programs via the normal application process, paying all fees and meeting all relevant admission criteria. Admission will not be automatic as it will be subject to the normal admission practices of the program to which application is made and the Graduate School.

DENIAL

Students who are not admissible under the conditions specified above shall be denied admission to the Fast Track program. They may apply to graduate programs via the regular application process, paying all required fees and meeting all relevant admission criteria. Admission will not be automatic as it will be subject to the normal admission practices of the program to which application is made and the Graduate School.

Curriculum

Students in the Fast Track BS-MS Geology program may take three 5000-level GEOL/EVSE electives with a total of 12 credit hours in place of 3000/4000-level undergraduate ENVR/GEOL/DATA/CHEM/BIO electives. These credits can be used to meet the required 120 credit hours and the required 30 credit hours for MS degree at UTA.

Foundations

[General Core Requirements \(https://catalog.uta.edu/academicregulations/degree requirements/generalcore requirements/\)](https://catalog.uta.edu/academicregulations/degree requirements/generalcore requirements/)

Students must complete specific courses in certain core areas

For Communication select:

ENGL 1301 & ENGL 1302	RHETORIC AND COMPOSITION I and RHETORIC AND COMPOSITION II
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For Life & Physical Science select:

PHYS 1441 or PHYS 1443	GENERAL COLLEGE PHYSICS I GENERAL TECHNICAL PHYSICS I
PHYS 1442 or PHYS 1444	GENERAL COLLEGE PHYSICS II GENERAL TECHNICAL PHYSICS II

For Mathematics select:

MATH 1426	CALCULUS I
MATH 2425	CALCULUS II

For US History select:

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

Geology/EES Foundations

Additional hours required in core 4

UNIV 1131 STUDENT SUCCESS 1

Communication Competence - pass oral presentation requirement in GEOL 3442, GEOL 3444, COMS 1301, or COMS 1302 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
GEOL 3454	STATISTICS FOR EARTH AND ENVIRONMENTAL SCIENTISTS	4

Geology/EES 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
GEOL 3387	FIELD GEOLOGY I	3
GEOL 3388	FIELD GEOLOGY II	3

Select at least 2 hours in GEOL, ENVR, or DATA 3000-4000-level electives (excluding GEOL 4331, 4333, 4334, and 4354) 2

Minor and Electives

Select a minor of at least 18 hours as required for Biology, Chemistry, Mathematics, or Physics (including two EES Foundations courses) 10

General Elective(s) 4

Master's Degree Foundations

Select one of the following in engineering (or advisor approved): 3

CE 5321	ENGINEERING FOR ENVIRONMENTAL SCIENTISTS
IE 5321	ENTERPRISE ANALYSIS AND DESIGN

Master's Degree Specialization

Select 18 hours in GEOL or EVSE 5000-level electives (excluding GEOL 5320, 5454, 4334, and 4354) 18

Take two hours in the following seminar: 2

GEOL 4199	TECHNICAL SESSIONS	
GEOL 5395 or GEOL 5698	MASTER'S PROJECT (or 5000-level class approved by advisor) THESIS	3

Total Hours

141

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; Biology minors should consult with the Earth and Environmental Sciences undergraduate advisor.

First Year

	First Semester	Hours	Second Semester	Hours
	UNIV 1131		1 GEOL 1302	3
	GEOL 1301		3 MATH 2425	4
	MATH 1426		4 ENGL 1302	3
	ENGL 1301		3 CHEM 1442	4
	CHEM 1441	4		
	15		14	

Second Year

	First Semester	Hours	Second Semester	Hours
	BIOL 1441		4 PHYS 1442	4
	POLS 2311		3 POLS 2312	3
	PHYS 1441		4 Creative Arts*	3
	GEOL 2445		4 Minor Course**	4
	15		14	

Third Year

Summer Session	Hours	First Semester	Hours	Second Semester	Hours
GEOL 3387		3 GEOL 3441		4 GEOL 3442	4
GEOL 3388		3 GEOL 3443		4 GEOL 3446	4
		GEOL 4330		3 HIST 1302	3
		HIST 1301		3 GEOL 3454	4
	6			14	15

Fourth Year

	First Semester	Hours	Second Semester	Hours
	Minor course**		6 Foundational Component Area*	3
	General elective(s)		4 GEOL 5000 level electives	6
	GEOL 5000 level elective		3 Language, Philosophy and Culture*	3
			Additional 4000 level Geology elective	2
	13		14	

Fifth Year

	First Semester	Hours	Second Semester	Hours
	CE 5321 or IE 5304		3 Electives in 5000-level GEOL or EVSE courses	5
	GEOL 5199		1 GEOL 5199	1
	Electives in 5000-level GEOL or EVSE courses		8 GEOL 5395	3
	12		9	

Total Hours: 141

* See [General Core Requirements \(https://catalog.uta.edu/academicregulations/degree/requirements/general/core/requirements/\)](https://catalog.uta.edu/academicregulations/degree/requirements/general/core/requirements/) for approved courses.

** Actual number of courses/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/>)