

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

About This Program

Bachelor of Science in Environmental Science to Master of Science in Earth and Environmental Science (Professional) Fast Track enables outstanding senior undergraduate Environmental Science students to satisfy degree requirements leading to a master's degree in Environmental Science while completing their undergraduate studies.

ASSOCIATED PROGRAMS

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

Environmental Science BS

Earth and Environmental Science MS (Environmental Professional)

Admissions Criteria

UNCONDITIONAL ADMISSION

Undergraduate Environmental Science students can apply when they are within 30 hours of completing their BS in Environmental Science 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 environmental science courses taken at UTA. Additionally, they must have completed 14 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 MS in Environmental Science and MS in Earth and Environmental Science program.

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

1. ENVR 2314 THE GLOBAL ENVIRONMENT AND HUMAN HEALTH
2. ENVR 3317 ENVIRONMENTAL HYDROLOGY
3. ENVR 3387 ENVIRONMENTAL SCIENCE FIELD METHODS
4. ENVR 3454 STATISTICS FOR EARTH AND ENVIRONMENTAL SCIENTISTS

Environmental Science undergraduates pursuing the Fast Track master's degree will be allowed to take three EVSE/PLAN/CE/IE 5000-level electives in place of advanced undergraduate ENVR/GEOL/DATA/CHEM/BIO electives.

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

Foundations

General Core 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	
For Life & Physical Sciences select:		
PHYS 1443 or PHYS 1441	GENERAL TECHNICAL PHYSICS I GENERAL COLLEGE PHYSICS I	
PHYS 1444 or PHYS 1442	GENERAL TECHNICAL PHYSICS II GENERAL COLLEGE 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	
Environmental Science Foundations		
Additional hours required in core.		4
UNIV 1131	STUDENT SUCCESS	1
Computer Competence - pass Computer Skills Placement test or any computer-related course such as:		3
GEOL 4330	UNDERSTANDING GEOGRAPHIC INFORMATION SYSTEMS	
Environmental Science BS Specialization		
ENVR 3454	STATISTICS FOR EARTH AND ENVIRONMENTAL SCIENTISTS	4
MAJOR		
ENVR 1301	INTRODUCTION TO ENVIRONMENTAL SCIENCE	3
ENVR 1330 or GEOL 1340 or GEOL 1301	GLOBAL WARMING WEATHER AND CLIMATE EARTH SYSTEMS	3
ENVR 2314	THE GLOBAL ENVIRONMENT AND HUMAN HEALTH	3
ENVR 3317 or ENVR 4325	ENVIRONMENTAL HYDROLOGY TRACER HYDROLOGY	3
ENVR 3387	ENVIRONMENTAL SCIENCE FIELD METHODS	3
ENVR 4303	TOPICS IN SUSTAINABILITY	3
ENVR 4308	ENVIRONMENTAL GEOCHEMISTRY	3
ENVR 4313 or ENVR 4312	ENVIRONMENTAL REGULATION OF CHEMICAL HAZARDS ENVIRONMENTAL RISK BASED ACTION	3
GEOL 4331 or GEOL 4332 or GEOL 4333 or GEOL 4334	ANALYSIS OF SPATIAL DATA GLOBAL POSITIONING SYSTEM REMOTE SENSING FUNDAMENTALS GEOGRAPHIC DATA ANALYSIS	3
GEOL 4405 or GEOL 4425 or GEOL 4465	METEOROLOGY AND CLIMATOLOGY PALEOCLIMATE & CLIMATE CHANGE PHYSICAL OCEANOGRAPHY AND LIMNOLOGY	4
BIOL 1441	BIOLOGY I FOR SCIENCE MAJORS: CELL AND MOLECULAR BIOLOGY	4
BIOL 1442	BIOLOGY II FOR SCIENCE MAJORS: ECOLOGY AND EVOLUTION	4
BIOL 3356 or BIOL 3355	ENVIRONMENTAL SYSTEMS, BIOLOGICAL ASPECTS TOXICOLOGY	3
CHEM 1441	GENERAL CHEMISTRY I	4
CHEM 1442	GENERAL CHEMISTRY II	4
Select 7 hours in ENVR/GEOL/DATA/CHEM/BIO electives sufficient to complete 36 hours at 3000/4000 level		7
MS Foundations		
Select one of the following in engineering:		3
CE 5321	ENGINEERING FOR ENVIRONMENTAL SCIENTISTS	
IE 5304	ADVANCED ENGINEERING ECONOMY	

Select one of the following in science: 3

EVSE 5311	ENVIRONMENTAL SYSTEMS-GEOLOGICAL ASPECTS
EVSE 5312	ENVIRONMENTAL RISK BASED ACTION
EVSE 5316	CONSERVATION OF NATURAL RESOURCES

Select one of the following in City and Regional Planning: 3

PLAN 5303	PLANNING HISTORY, THEORY AND ETHICS
PLAN 5316	LAND USE PLANNING AND THE LAW
PLAN 5352	ENVIRONMENT ASSESSMENT POLICY & PRACTICE

MS Specialization

EVSE 5199	SEMINAR IN ENVIRONMENTAL & EARTH SCIENCES	1
EVSE 5115	PROFESSIONAL EXPERIENCE	1
or EVSE 6197	RESEARCH IN ENVIRONMENTAL & EARTH SCIENCES	

Select 16 hours from one of the following departments: Earth and Environmental Sciences, Civil and Environmental Engineering, or Urban and Public Affairs, Biology, or Chemistry 16

EVSE 5395	MASTER'S PROJECT (or 5000-level GEOL/EVSE electives with advisor approval)	3
or EVSE 5698	THESIS	

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 ENVR 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
	MATH 1426	4	BIOL 1442	4
	BIOL 1441	4	MATH 2425	4
	ENGL 1301	3	ENGL 1302	3
	ENVR 1301	3	ENVR 1330, GEOL 1340, or GEOL 1301	3
	UNIV 1131	1		
	15		14	

Second Year

	First Semester	Hours	Second Semester	Hours
	HIST 1301	3	CHEM 1442 or PHYS 1444	4
	CHEM 1441	4	PHYS 1442	4
	PHYS 1441 or 1443	4	HIST 1302	3
	Social & Behavioral Sciences core	3	ENVR 2314	3
	14		14	

Third Year

Summer Session	Hours	First Semester	Hours	Second Semester	Hours
ENVR 3387	3	ENVR 3317 or 4325	3	POLS 2312	3
		ENVR 4313	3	GEOL 4331, 4332, 4333, or 4334	3
		ENVR 3454	4	BIOL 3356 or 3355	3
		POLS 2311	3	ENVR 4308	3
		GEOL 4330	3	ENVR/GEOL/BIOL/DATA Electives	3
	3		16		15

Fourth Year

	First Semester	Hours	Second Semester	Hours
	ENVR 4303	3	GEOL 4405, 4425, or 4465	4
	CE 5321 or IE 5304	3	ENVR/GEOL/BIOL/DATA Electives	4
	Language, Philosophy & Culture core	3	EVSE 5311, 5312, or 5316	3
	PLAN 5305	3	Foundational Component Area care	3
	Creative Arts core	3		
	15		14	

Fifth Year

	First Semester	Hours	Second Semester	Hours
	EVSE or GEOL 5000-level electives	12	EVSE or GEOL 5000-level electives	4

	EVSE 5115 or 6197	1
	EVSE 5199	1
	EVSE 5395 or 5698 (or GEOL/EVSE 5000-level approved by advisor)	3
12	9	

Total Hours: 141

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/>)