

Environmental Science: Earth, Atmosphere, and Geological Resources, B.S.

[Please refer to the Undergraduate Catalog for further program requirements and course descriptions.](#)

First Year – 31-34 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
ESC 1500/1500L: <i>Introduction to Environmental Science I/Lab</i> (Natural Science)	4	ESC 1510/1510L: <i>Introduction to Environmental Science II/Lab</i> (Natural Science)	4
GEOL 1110/1110L: <i>Physical Geology/Lab</i>	4	GEOL 1120/1120L: <i>Historical Geology/Lab</i>	4
MATH 1130: <i>College Algebra</i> or MATH 1730: <i>Combined Precalculus</i> (Quantitative Reasoning)	3-4	MATH 1830: <i>Calculus for Management, Life and Social Sciences</i> or MATH 1950: <i>Calculus w/ Analytic Geometry I</i> (Quantitative Reasoning)	3-4
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
		Behavioral and Social Science	3
	14-16		17-18
Second Year – 34 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
BIOL 1110/1110L: <i>Principles of Biology I/Lab</i>	4	BIOL 1120/1120L: <i>Principles of Biology II/Lab</i>	4
CHEM 1110/1110L: <i>General Chemistry I/Lab</i>	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i>	4
ENGL 2820: <i>Scientific Writing</i> *	3	GEOG 1010: <i>Physical Geography</i>	3
GEOL 2100/2100L: <i>Introductory Geographic Information Systems and Remote Sensing/Lab</i>	4	MATH 2100: <i>Introductory Statistics</i>	3
		Elective (3000-4000 level)**	0-4
	15		14-18
Third Year – 30-33 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
BIOL 3060/3070: <i>Ecology/Lab</i>	4	ESC 4840: <i>Values and the Environment</i>	3
ESC 3400: <i>Environmental Survey Methods</i> or ESC 3600: <i>Air and Water Pollution Control</i> or GEOL 4450: <i>Hydrology</i>	3-4	GEOG 2000-4000 Level or ESC 4070: <i>Environmental Conservation</i>	3
GEOL 3410/3410L: <i>Mineralogy</i>	4	GEOL 3420/3420L: <i>Petrology/Lab</i>	4
Humanities and Fine Arts	3-4	Approved GEOL Elective	3
		Individual and Global Citizenship**	3-4
	14-16		16-17
Fourth Year – 26-31 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
Approved Senior Experience	2	ESC 4100: <i>Environmental Law and Agencies</i>	3
Approved GEOL Elective (3000-4000 Level)	3	Approved GEOL Elective (3000-4000 Level)	3-4
Humanities and Fine Arts**	3-4	Approved GEOL Elective (3000-4000 Level)	3-4
Humanities and Fine Arts**	3-4	Humanities and Fine Arts**	3-4
Behavioral and Social Sciences	3		
	14-16		12-15

*Students can substitute ESC 4495r: *Departmental Thesis* for ENGL 2820

**5-6 hours of 3000-4000 Level coursework needed within General Education or GEOL Electives.

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
120 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000) Hours*		89-94 Program Major Hours	
30 Hours at UTC		Minor (<i>Not Required</i>)	
45 Hours at 4-year Institution		0-4 Elective Hours	
		Foreign Language (<i>Not Required</i>)	