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

Please refer to the Undergraduate Catalog for further program requirements and course descriptions.

First Year – 28-31 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
ESC 1500/1500L: Introduction to Environmental Science	1	ESC 1510/1510L: Introduction to Environmental Science	4
I/Lab (Natural Science)	4	II/Lab (Natural Science)	4
GEOL 1110/1110L: Physical Geology/Lab	4	GEOL 1120/1120L: Historical Geology/Lab	4
MATH 1130: College Algebra or MATH 1730: Combined		MATH 1830: Calculus for Management, Life, and Social	
Precalculus (Quantitative Reasoning)	3-4	Sciences or MATH 1950: Calculus w/ Analytic Geometry I	3-4
	2.4	(Quantitative Reasoning)	
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
Second Year – 32-33 Hours	14-16		14-15
	I	<u> </u>	1
Fall Semester:	Hrs	Spring Semester:	Hrs
BIOL 1110/1110L: Principles of Biology I/Lab	4	BIOL 1120/1120L: Principles of Biology II/Lab	4
CHEM 1110/1110L: General Chemistry I/Lab	4	CHEM 1120/1120L: General Chemistry II/Lab	4
ENGL 2820: Scientific Writing*	3	GEOG 1010: Physical Geography	3
GEOL 2100/2100L: Introductory Geographic Information	4	MATH 2100: Introductory Statistics	3
Systems and Remote Sensing/Lab		,	
Elective	0-1	Behavioral and Social Science	3
	15-16		17
Third Year – 30-37 Hours			1
Fall Semester:	Hrs	Spring Semester:	Hrs
BIOL 3060/3070: <i>Ecology/Lab</i>	4	ESC 4840: Values and the Environment	3
ESC 3400: Environmental Survey Methods or ESC 3600:	3-4	GEOG 2000-4000 Level or ESC 4070: Principles of	3
Air and Water Pollution Control or GEOL 4450: Hydrology		Conservation Biology	
GEOL 3410/3410L: Mineralogy	4	GEOL 3420/3420L: Petrology/Lab	4
Humanities and Fine Arts	3-4	Approved GEOL Elective (3000-4000 Level)	3-4
Elective	0-3	Individual and Global Citizenship**	3-4
Liective	14-19	individual and Global Citizenship	16-18
Fourth Year – 28-36 Hours	14-13		10-10
Fall Semester:	Hrs	Spring Semester:	Hrs
Approved Senior Experience	2	ESC 4100: Environmental Law and Agencies	3
Elective (3000-4000 Level)	3	Approved GEOL Elective (3000-4000 Level)	3-4
Humanities and Fine Arts**	1		
	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	Elective	0-3
	14-16		14-20

<sup>\*</sup>Students can substitute ESC 4495r: Departmental Thesis for ENGL 2820.

<sup>\*\*1-5</sup> hours of 3000-4000 Level coursework needed within General Education.

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
120 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000 Level) Hours*		86-92 Program Major Hours	
30 Hours at UTC		Minor (Not Required)	
45 Hours at 4-year Institution		0-7 Elective Hours	
		Foreign Language (Not Required)	