

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

[Please see the Courses section of this catalog for complete course descriptions.](#)

<b>First Year – 28-31 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ESC 1500/1500L: <i>Intro to Environmental Science I/Lab</i> (Natural Science)	4	ESC 1510/1510L: <i>Intro to Environmental Science II/Lab</i> (Natural Science)	4
BIOL 1110/1110L: <i>Principles of Biology I/Lab</i>	4	BIOL 1120/1120L: <i>Principles of Biology II/Lab</i>	4
MATH 1130: <i>College Algebra</i> (or 1710 or 1720 or 1730) (Mathematics)	3-4	MATH 1830: <i>Calculus for Management, Life and Social Sciences</i> (or 1950)	3-4
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 (Rhetoric and Writing II)	3
		Behavioral and Social Science	3
	14-16		17-18
<b>Second Year – 33 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CHEM 1110/1110L: <i>General Chemistry I/Lab</i>	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i>	4
GEOG 1110/1110L: <i>Physical Geology/Lab</i>	4	GEOG 1120/1120L: <i>Historical Geology/Lab</i>	4
MATH 2100: <i>Introductory Statistics</i> (Statistics)	3	GEOG 2210: <i>Maps and Mapping</i>	3
FAH: Historical Understanding	3	GEOG 1010: <i>Physical Geology</i>	3
Behavioral and Social Science (GEOG 1040)	3	ENGL 2820: <i>Scientific Writing</i> *	3
	17		16
<b>Third Year – 30-31 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
ESC 3400/3400L: <i>Env. Survey Methods</i> , 3600: <i>Air/Water Pollution Control</i> , or 4520/4520L: <i>Limnology &amp; Reservoir Ecology/Lab</i>	3-4	BIOL 3060/3070: <i>Ecology/Lab</i>	4
GEOG 3410/3410L: <i>Mineralogy</i>	4	GEOG 3420/3420L: <i>Petrology/Lab</i>	4
GEOG 4090: <i>Economic Geography</i> (or GEOG 2060)	3	Approved GEOL Elective	3
FAH: Literature	3	Non-Western Culture	3
Elective (3000-4000 Level)	3		
	16-17		14
<b>Fourth Year – 25-29 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
Approved Senior Experience	2	ESC 4100: <i>Environmental Law and Agencies</i>	3
Approved GEOL Elective (3000-4000 Level)	3	ESC 3400/3400L: <i>Env. Survey Methods</i> , 3600: <i>Air/Water Pollution Control</i> , or 4520/4520L: <i>Limnology &amp; Reservoir Ecology/Lab</i>	3
FAH: Thought, Values and Beliefs	3	Approved GEOL Elective (3000-4000 Level)	3
Behavioral and Social Sciences	3	FAH: Visual and Performing Arts	3
Elective	2-3	Elective	0-3
	13-14		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.

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
120 Total Hours		27-28 General Education Hours	
39 Upper Division (3000-4000) Hours*		84-87 Program Major Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
60 Hours at 4-year Institution		5-9 Elective Hours	
		Foreign Language ( <i>Not Required</i> )	