

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

<b>First Year – 29-31 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
BIOL 1110: <i>Principles of Biology/Lab</i> or ESC 1500: <i>Intro. to Environmental Science/Lab</i> (Natural Science)	4	CHEM 1110/1110L: <i>General Chemistry I/Lab</i>	4
Introductory Geology Course * (Natural Science)	4	GEOL 1120/1120L: <i>Historical Geology/Lab</i>	4
MATH 1730: <i>Combined Precalculus</i> or 1950: <i>Calculus w/ Analytic Geometry I</i> (Quantitative Reasoning)	4	Writing and Communication (ENGL 1020)	3
Writing and Communication (ENGL 1010 or 1011)	3-4	Humanities and Fine Arts	3-4
	15-16		14-15
<b>Second Year – 29-30 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
GEOL 3410/3410L: <i>Mineralogy/Lab</i>	4	Approved science with lab to complete sequence**	4
GEOL 4450: <i>Hydrology</i>	4	GEOL 4470: <i>Applied Environmental Geochemistry</i>	4
PHYS 1030/1030L: <i>Gen Physics-Mechanics &amp; Heat/Lab</i> , or 2300/2300L: <i>Principles of Physics-Mechanics &amp; Heat/Lab</i>	4	ENGL 2810: <i>Technical Writing</i> or ENGL 2820: <i>Scientific Writing</i>	3
Behavioral and Social Science	3	Quantitative Reasoning	3-4
	15		14-15
<b>Third Year – 27-29 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
GEOL 2100/2100L: <i>Introductory Geographic Information Systems and Remote Sensing/Lab</i>	4	GEOL 3540/3540L: <i>Sedimentology and Stratigraphy/Lab</i>	4
GEOL 4490: <i>Hydrologic Modeling</i>	4	Hydrogeology Concentration Elective (2000-4000 Level)	2
Humanities and Fine Arts	3-4	Hydrogeology Concentration Elective (3000-4000 Level)	3
Elective (3000-4000 Level)	4	Individual and Global Citizenship	3-4
	15-16		12-13
<b>Fourth Year – 28-37 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
GEOL 4510/4510L: <i>Structural Geology/Lab</i>	4	GEOL 4080: <i>Earth Surface Processes</i>	4
Capstone Research (4000 Level)	4	Humanities and Fine Arts	3-4
Behavioral and Social Science	3	Humanities and Fine Arts	3-4
Elective	3	Elective	4
Elective	0-3	Elective	0-4
	14-17		14-20

\*GEOL 1025, 1030, or 1110 with GEOL 1110L or GEOL 1040, 2200, or 2250 with GEOL 1105L

\*\* BIOL 1120/1120L, ESC 1510/1510L, CHEM 1120/1120L, PHYS 1040/1040L, or PHYS 2310/2310L

Students must have completed a minimum of 30 hours of Geology coursework to take licensure exam.

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
120 Total Hours		30-37 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		72 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
45 Hours at 4-year Institution		11-18 Elective Hours	
		Foreign Language ( <i>Not Required</i> )	