

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

<b>First Year – 31-32 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
GEOL 1110/1110L: <i>Physical Geology/Lab</i> (Nat. Science)	4	GEOL 1120/1120L: <i>Historical Geology/Lab</i> (Nat. Science)	4
CHEM 1110/1110L: <i>General Chemistry I</i>	4	CHEM 1120/1120L: <i>General Chemistry II</i>	4
MATH 1950: <i>Calculus w Analytic Geometry I</i> (Math)	4	MATH 2100: <i>Introductory Statistics</i> (Statistics)	3
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2000 (Rhetoric and Writing II)	3
STEM 1030: <i>Step One/Two: Inquiry-Based Math &amp; Science Teaching</i>	2		
	17-18		14
<b>Second Year – 31 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
STEM 2010: <i>Knowing and Learning</i>	3	STEM 2020: <i>Classroom Interactions</i>	3
GEOL 3410/3410L: <i>Mineralogy/Lab</i>	4	GEOL 3420/3420L: <i>Petrology/Lab</i>	4
PHYS 1030/1030L: <i>Gen Physics-Mechanics &amp; Heat/Lab</i> , 2300/2300L: <i>Princ of Physics-Mechanics &amp; Heat/Lab</i> , or BIOL 1110/1110L: <i>Principles of Bio I/Lab</i>	4	PHYS 1040/1040L: <i>Gen Physics-Electromagnetism &amp; Optics /Lab</i> , 2310/2310L: <i>Princ of Physics-Electricity &amp; Magnetism /Lab</i> , or BIOL 1120/1120L: <i>Principles of Bio II/Lab</i>	4
FAH: Historical Understanding	3	FAH: Thought, Values and Beliefs	3
FAH: Literature	3		
	17		14
<b>Third Year – 30 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
STEM 3010: <i>Perspectives on Science &amp; Math</i>	3	STEM 3020: <i>Research Methods in Science</i>	3
GEOL 2250: <i>Oceanography</i>	3	GEOL 3540/3540L: <i>Sedimentary Rocks &amp; Stratigraphy/Lab</i>	4
GEOL 4510/4510L: <i>Structural Geology/Lab</i>	4	ASTR 1010/1010L: <i>Intro to Astronomy-The Solar System/Lab</i>	4
FAH: Visual and Performing Arts	3	Behavioral and Social Science	3
Behavioral and Social Science	3		
	16		14
<b>Fourth Year – 28 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
STEM 4010: <i>Project-Based Instruction</i>	3	STEM 4020: <i>Apprentice Teaching</i>	6
GEOL 4800: <i>Geology Seminar</i>	1	GEOL 4900: <i>Senior Seminar</i>	2
GEOL 3070: <i>Geology of Tennessee</i>	3	GEOL Elective	3
GEOL Elective (3000-4000 Level)	4	Non-Western Culture	3
EDUC 4170: <i>Technology &amp; Learning</i>	3		
	14		14

<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		93 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
60 Hours at 4-year Institution		Elective Hours ( <i>Not Required</i> )	
		Foreign Language ( <i>Not Required</i> )	