

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

First Year – 34-37 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
Approved Introductory Geology Course	4	GEOL 1120/1120L: Historical Geology/Lab	4
CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i> (Natural Science)	4
MATH 1730: <i>Combined Precalculus</i> or MATH 1950: <i>Calculus with Analytic Geometry</i> (Quantitative Reasoning)	4	MATH 2100: <i>Introductory Statistics</i> (Quantitative Reasoning)	3
STEM 1030: <i>Step One/Two: Inquiry-Based Math & Science Teaching</i>	2	Humanities and Fine Arts	3-4
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
		Elective (MATH 1799 recommended)	0-1
	17-18		17-19
Second Year – 36-37 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
STEM 2010: <i>Knowing and Learning</i>	3	STEM 2020: <i>Classroom Interactions</i>	3
GEOL 3410/3410L: <i>Mineralogy/Lab</i>	4	GEOL 2100/2100L: <i>Introductory Geographic Information Systems and Remote Sensing/Lab</i>	4
PHYS 1030/1030L: <i>Gen Physics-Mechanics & Heat/Lab</i> , PHYS 2300/2300L: <i>Princ of Physics-Mechanics & Heat/Lab</i> , or BIOL 1110/1110L: <i>Principles of Bio I/Lab</i>	4	GEOL 2200: <i>Global Climate Change: Past, Present, and Future</i>	3
Humanities and Fine Arts	3-4	GEOL 3420/3420L: <i>Petrology/Lab</i>	4
Individual and Global Citizenship	3-4	PHYS 1040/1040L: <i>Gen Physics-Electromagnetism & Optics/Lab</i> , PHYS 2310/2310L: <i>Princ of Physics-Electricity & Magnetism /Lab</i> , or BIOL 1120/1120L: <i>Principles of Bio II/Lab</i>	4
	17-19		18
Third Year – 33-34 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
STEM 3010: <i>Perspectives on Science & Math</i>	3	STEM 3020: <i>Research Methods in Science</i>	3
GEOL 2250: <i>Oceanography</i>	3	ASTR 1010/1010L: <i>Intro to Astronomy-The Solar System/Lab</i>	4
GEOL 4510/4510L: <i>Structural Geology/Lab</i>	4	GEOL 3540/3540L: <i>Sedimentology and Stratigraphy/Lab</i>	4
Behavioral and Social Science	3	GEOL 4080 : <i>Earth Surface Processes</i>	3
Humanities and Fine Arts	3-4	Behavioral and Social Science	3
	16-17		17
Fourth Year –27-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
STEM 4010: <i>Project-Based Instruction</i>	3	STEM 4020: <i>Apprentice Teaching</i>	10-12
EDUC 4170: <i>Technology & Learning</i>	3	EDUC 4420: <i>Professional Seminar</i>	2
GEOL 3070: <i>Geology of Tennessee</i>	3	GEOL Senior Research Experience	1-3
GEOL Senior Research Experience	2		
Humanities and Fine Arts	3-4		
	14-15		13-17
Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
121 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000) Hours		104-108 Program (Major) Hours	
30 Hours at UTC		Minor (<i>Not Required</i>)	
45 Hours at 4-year Institution		Elective Hours (<i>Not Required</i>)	
		Foreign Language (<i>Not Required</i>)	