

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

First Year – 31-33 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
BIOL 1110/1110L: <i>Principles of Biology I/Lab</i> (Natural Science)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i>	4
CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)	4	MATH 1960: <i>Calculus w/Analytic Geometry II</i>	4
MATH 1950: <i>Calculus w/Analytic Geometry I</i> (Quantitative Reasoning)	4	STEM 1030: <i>Step One/Two: Inquiry Based Mathematics and Science Teaching</i>	2
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
		Humanities and Fine Arts	3-4
	15-16		16-17
Second Year – 32-36 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
CHEM 3010/3010L: <i>Organic Chemistry I/Lab</i>	4	CHEM 3020/3020L: <i>Organic Chemistry II/Lab</i>	4
PHYS 1030/1030L: <i>General Physics: Mechanics and Heat/Lab</i> or PHYS 2300/2300L: <i>Principles of Physics: Mechanics and Heat/Lab</i>	4	CHEM 3210/3210L: <i>Quantitative Analysis/Lab</i>	4
MATH 2100: <i>Introductory Statistics</i> or MATH 3100: <i>Applied Statistics</i> (Quantitative Reasoning)	3	PHYS 1040/1040L: <i>General Physics: Electromagnetism and Optics/Lab</i> or PHYS 2310/2310L: <i>Principles of Physics: Electricity and Magnetism/Lab</i>	4
STEM 2010: <i>Knowing and Learning</i>	3	STEM 2020: <i>Classroom Interactions</i>	3
Individual and Global Citizenship	3-4	Elective	0-3
	17-18		15-18
Third Year – 28-32 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
CHEM 3310: <i>Inorganic Chemistry</i>	3	CHEM 3720/3720L: <i>Physical Chemistry II/Lab</i> or CHEM 4230: <i>Instrumental Analysis*</i>	4
CHEM 3710/3710L: <i>Physical Chemistry I/Lab</i>	4	CHEM 4510: <i>Biochemistry</i>	3
CHEM 3820: <i>Chemical Literature</i>	1	STEM 3020: <i>Research Methods in Science</i>	3
STEM 3010: <i>Perspectives on Science and Mathematics</i>	3	Behavioral and Social Science	3
Approved Chemistry Elective (4000 Level)	1-4	Humanities and Fine Arts	3-4
	12-15		16-17
Fourth Year – 25-29 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
EDUC 2170: <i>Technology and Learning</i>	1	EDUC 4420: <i>Professional Seminar</i>	2
STEM 4010: <i>Project-Based Instruction</i>	3	STEM 4020: <i>Apprentice Teaching</i>	10
Behavioral and Social Science	3		
Humanities and Fine Arts	3-4		
Humanities and Fine Arts	3-4		
Elective	0-2		
	13-17		12

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
121 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		89-92 Program (Major) Hours	
30 Hours at UTC		Minor (<i>Not Required</i>)	
45 Hours at 4-year Institution		0-5 Elective Hours	
		Foreign Language (<i>Not Required</i>)	