

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

First Year – 31-33 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)	4	STEM 1030: <i>Step One/Two: Inquiry Based Math and Science Teaching</i>	2
BIOL 1110/1110L: <i>Principles of Biology I/Lab</i> (Natural Science)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i>	4
MATH 1950: <i>Calculus w/Analytic Geometry I</i> (Quantitative Reasoning)	4	MATH 1960: <i>Calculus w/Analytic Geometry II</i>	4
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			
Fall Semester:	Hrs	Spring Semester:	Hrs
STEM 2010: <i>Knowing and Learning</i>	3	STEM 2020: <i>Classroom Interactions</i>	3
CHEM 3010/3010L: <i>Organic Chemistry I/Lab</i>	4	CHEM 3020/3020L: <i>Organic Chemistry II/Lab</i>	4
PHYS 1030/1030L: <i>Gen Phys: Mechanics & Heat/Lab</i> or PHYS 2300/2300L: <i>Princ. of Phys: Mechanics & Heat/Lab</i>	4	PHYS 1040/1040L: <i>Gen Phys: Electromagnetism & Optics/Lab</i> or PHYS 2310/2310L: <i>Princ. of Phys: Electricity & Magnetism/Lab</i>	4
MATH 2100: <i>Introductory Statistics</i> or MATH 3100: <i>Applied Stats</i> (Quantitative Reasoning)	3	CHEM 3210/3210L: <i>Quantitative Analysis/Lab</i>	4
Individual and Global Citizenship	3-4	Elective (ENGL 2820)	0-3
	17-18		15-18
Third Year – 31-36 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
STEM 3010: <i>Perspectives on Science and Math</i>	3	STEM 3020: <i>Research Methods in Science</i>	3
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	Behavioral and Social Science	3
Approved Chemistry Elective	1-4	Humanities and Fine Arts	3-4
Humanities and Fine Arts	3-4		
	15-19		16-17
Fourth Year – 24-25 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
STEM 4010: <i>Project-Based Instruction</i>	3	STEM 4020r: <i>Apprentice Teaching</i>	12
EDUC 4170: <i>Technology and Learning</i>	3		
Behavioral and Social Science	3		
Humanities and Fine Arts	3-4		
	12-13		12

*Includes EDUC 4420: *Professional Seminar* requirement

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
121 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		91-94 Program (Major) Hours	
30 Hours at UTC		Minor (<i>Not Required</i>)	
45 Hours at 4-year Institution		0-3 Elective Hours	
		Foreign Language (<i>Not Required</i>)	