

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

First Year – 31-32 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i> (Natural Science)	4
BIOL 1110/1110L: <i>Principles of Biology I/Lab</i>	4	BIOL 1120/1120L: <i>Principles of Biology 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
CHEM 1250: <i>The First Year Experience in Chemistry</i>	1	Writing and Communication (ENGL 1020)	3
Writing and Communication (ENGL 1010 or 1011)	3-4		
	16-17		15
Second Year – 27-29 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
BIOL 1130: <i>Principles of Biology III</i>	3	CHEM 3020/3020L: <i>Organic Chemistry II/Lab</i>	4
CHEM 3010/3010L: <i>Organic Chemistry I/Lab</i>	4	CHEM 3210/3210L: <i>Quantitative Analysis/Lab</i>	4
ENGL 2820: <i>Scientific Writing</i>	3	PHYS 1040/1040L: <i>Gen. Phys - Electromagnetism & Optics/Lab</i> or PHYS 2310/2310L: <i>Princ. of Phys - Electricity & Magnetism/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	Elective*	1-3
	14		13-15
Third Year – 30-33 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
CHEM 3710/3710L: <i>Physical Chemistry: Thermodynamics and Kinetics/Lab</i>	4	BIOL 3250: <i>Genetics</i> (3260 lab recommended)	3-4
CHEM 3820: <i>Chemical Literature</i>	1	CHEM 3720/3720L: <i>Physical Chemistry: Quantum Mechanics and Spectroscopy II/Lab</i>	4
CHEM 4510: <i>Biochemistry</i>	3	MATH 2100: <i>Introductory Statistics</i> or MATH 3100: <i>Applied Statistics</i> (Quantitative Reasoning)	3
Humanities and Fine Arts	3-4	Humanities and Fine Arts	3-4
Behavioral and Social Science	3	Behavioral and Social Science	3
	14-15		16-18
Fourth Year – 24-34 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
CHEM 3310: <i>Inorganic Chemistry</i>	3	CHEM 4530/4530L: <i>Proteins and Nucleic Acids/Lab</i>	4
CHEM 4230/4230L: <i>Instrumental Analysis/Lab</i>	4	Approved BIOL Elective (4000 level)	3-4
CHEM 4830r: <i>Seminar</i>	1	Humanities and Fine Arts	3-4
Individual and Global Citizenship	3-4	Humanities and Fine Arts	3-4
Elective*	0-3	Elective*	0-3
	11-15		13-19

*One CHEM research course recommended from CHEM 3900r, CHEM 4995r or CHEM 4997r for ACS certification.

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
120 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		84-86 Program (Major) Hours	
30 Hours at UTC		Minor (<i>Not Required</i>)	
45 Hours at 4-year Institution		1-9 Elective Hours	
		Foreign Language Hours (<i>Not Required</i>)	