

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

<b>First Year – 29-31 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i> (Natural Science)	4
CHEM 1250: <i>The First Year Experience in Chemistry</i>	1	MATH 1960: <i>Calculus with Analytic Geometry II</i>	4
MATH 1950: <i>Calculus with Analytic Geometry I</i> (Quantitative Reasoning)	4	Writing and Communication (ENGL 1020)	3
Writing and Communication (ENGL 1010 or 1011)	3-4	Humanities and Fine Arts	3-4
Behavioral and Social Science	3		
	15-16		14-15
<b>Second Year – 29-30 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CHEM 3010/3010L: <i>Organic Chemistry I/Lab</i>	4	CHEM 3020/3020L: <i>Organic Chemistry II/Lab</i>	4
ENGL 2820: <i>Scientific Writing</i>	3	CHEM 3210/3210L: <i>Quantitative Analysis/Lab</i>	4
MATH 2200: <i>Elementary Linear Algebra</i>	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
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	Humanities and Fine Arts	3-4
	14		15-16
<b>Third Year – 29-34 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CHEM 3310: <i>Inorganic Chemistry</i>	3	CHEM 3720/3720L: <i>Physical Chemistry: Quantum Mechanics and Spectroscopy II/Lab</i>	4
CHEM 3710/3710L: <i>Physical Chemistry: Thermodynamics and Kinetics/Lab</i>	4	CHEM 4510: <i>Biochemistry</i>	3
CHEM 3820: <i>Chemical Literature</i>	1	MATH 2100: <i>Introductory Statistics</i> or MATH 3100: <i>Applied Statistics</i> (Quantitative Reasoning)	3
Humanities and Fine Arts	3-4	Behavioral and Social Science	3
Elective	2	Humanities and Fine Arts	3-4
Elective	0-3		
	13-17		16-17
<b>Fourth Year – 24-34 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CHEM 4230/4230L: <i>Instrumental Analysis/Lab</i>	4	CHEM 4320/4320L: <i>Advanced Inorganic Chemistry/Lab</i>	4
CHEM 4830R: <i>Seminar</i>	1	Approved CHEM Research or CHEM Elective (3000-4000 level)	1-4
Approved CHEM Elective (4000 level)	4	Individual and Global Citizenship	3-4
Elective	3	Elective	3
Elective	0-2	Elective	1-2
Elective	0-3		
	12-17		12-17

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
120 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		75-78 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
45 Hours at 4-year Institution		9-18 Elective Hours	
		Foreign Language ( <i>Not Required</i> )	