

[Please see the Courses section of this catalog for complete course descriptions.](#)

<b>First Year – 28-29 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>	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i>	4
MATH 1950: <i>Calculus w Analytic Geometry I (Math)</i>	4	MATH 1960: <i>Calculus w Analytic Geometry II</i>	4
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
Behavioral and Social Science	3	FAH: Historical Understanding	3
	14-15		14
<b>Second Year – 31 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
CHEM 3210/3210L: <i>Quantitative Analysis/Lab</i>	4	MATH 2200: <i>Elementary Linear Algebra</i>	3
PHYS 1030/1030L: <i>Gen. Phys - Mechanics &amp; Heat/Lab</i> or 2300/2300L: <i>Princ. of Phys - Mechanics &amp; Heat/Lab (Natural Science)</i>	4	PHYS 1040/1040L: <i>Gen. Phys -Eletromagnetism &amp; Optics/Lab</i> or 2310/2310L: <i>Princ. of Phys - Electricity &amp; Magnetism/Lab (Natural Science)</i>	4
CHEM 2810: <i>Scientific Communication</i>	2	Behavioral and Social Science	3
		FAH: Literature	3
	14		17
<b>Third Year – 30-32 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CHEM 3710/3710L: <i>Physical Chemistry I/Lab</i>	4	CHEM 3720/3720L: <i>Physical Chemistry II/Lab</i>	4
CHEM 3310: <i>Inorganic Chemistry</i>	3	CHEM 4510: <i>Biochemistry</i>	3
CHEM 3820: <i>Chemical Literature</i>	1	MATH 2100: <i>Intro to Statistics</i> or 3100: <i>Applied Statistics (Statistics)</i>	3
Foreign Language I	3-4	Foreign Language II	3-4
FAH: Thought, Values and Beliefs	3	FAH: Visual and Performing Arts	3
	14-15		16-17
<b>Fourth Year – 28-31 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	Non-Western Culture	3
Approved CHEM Research Elective	1	Elective	3
CHEM 4030: <i>Advance Organic Chemistry</i> , 4220: <i>Methods of Environ. Analysis</i> , or 4530: <i>Proteins &amp; Nucleic Acids</i>	4	Elective	3
Elective	3	Elective	2
Elective	0-2		
	13-15		15

\*One CHEM research course recommended from CHEM 4995r or CHEM 4997r.

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
120 Total Hours		27-28 General Education Hours	
39 Upper Division (3000-4000) Hours*		72 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
60 Hours at 4-year Institution		11-13 Elective Hours	
		6-8 Foreign Language Hours	