

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

<b>First Year –30-31 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
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> (Math)	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
	15-16		15
<b>Second Year – 31-32 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	CHEM 2810: <i>Scientific Communication</i>	2
PHYS 1030/1030L: <i>Gen. Phys - Mechanics &amp; Heat/Lab</i> or PHYS 2300/2300L: <i>Princ. of Phys: Mechanics &amp; Heat/Lab</i>	4	PHYS 1040/1040L: <i>Gen. Phys - Eletromagnetism &amp; Optics/Lab</i> or PHYS 2310/2310L: <i>Princ. of Phys - Electricity &amp; Magnetism/Lab</i>	4
BIOL 1130: <i>Principles of Biology III</i>	3	BIOL 3250: <i>Genetics</i> (3260 lab recommended)	3-4
		FAH: Historical Understanding	3
	15		16-17
<b>Third Year – 28-30 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 3820: <i>Chemical Literature</i>	1	Approved BIOL Elective	4
CHEM 4510: <i>Biochemistry</i>	3	MATH 2100: <i>Introductory Statistics</i> or MATH 3100: <i>Applied Statistics</i> (Statistics)	3
Foreign Language I	3-4	Foreign Language II	3-4
FAH: Literature	3		
	14-15		14-15
<b>Fourth Year – 28-31 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
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	Behavioral and Social Science	3
CHEM 4830r: <i>Seminar</i>	1	FAH: Thought, Values and Beliefs	3
Behavioral and Social Science	3	FAH: Visual and Performing Arts	3
Non-Western Culture	3	Elective	0-3
Elective*	0-2		
	14-16		13-16

\*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		83 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
60 Hours at 4-year Institution		0-5 Elective Hours	
		6-8 Foreign Language Hours	