

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

First Year – 26-30 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i>	4
MATH 1950: <i>Calculus with Analytic Geometry I</i> (Quantitative Reasoning)	4	MATH 1960: <i>Calculus with Analytic Geometry II</i>	4
PHYS 1250: <i>The First Year Experience in Physics</i>	1	PHYS 1350: <i>Introduction to Data Analysis and Python Programming for STEM students</i>	3
Behavioral and Social Science	3	Writing and Communication (ENGL 1020)	3
Elective (ENGL 1010 or 1011)*	0-4		
	12-16		14
Second Year – 29 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 1100: <i>Fundamentals of Computer Science</i>	4	ENGL 2820: <i>Scientific Writing</i>	3
MATH 2100: <i>Introductory Statistics</i> or MATH 3100: <i>Applied Statistics</i> (Quantitative Reasoning)	3	MATH 2560: <i>Calculus with Analytic Geometry III</i>	4
MATH 2200: <i>Elementary Linear Algebra</i>	3	PHYS 2310/2310L: <i>Principles of Physics - Electricity and Magnetism/Lab</i>	4
PHYS 2300/2300L: <i>Principles of Physics - Mechanics and Heat/Lab</i> (Natural Science)	4	PHYS 2320/2320L: <i>Principles of Physics - Optics and Modern Physics/Lab</i>	4
	14		15
Third Year – 30-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
MATH 2450: <i>Introduction to Differential and Difference Equations</i>	3	PHYS 3420: <i>Electricity and Magnetism</i>	4
PHYS 3110: <i>Introduction to Thermal Physics</i>	4	PHYS 4110: <i>Introduction to Quantum Mechanics</i>	3
PHYS 3410: <i>Classical Mechanics</i>	4	Approved Technical Elective (3000-4000 Level)	3-4
PHYS 3810: <i>Introduction to Quantum Information Science and Technology</i>	3	Behavioral and Social Science	3
		Humanities and Fine Arts	3-4
	14		16-18
Fourth Year – 31-36 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
PHYS 3070/3070L: <i>Optics/Lab</i>	4	PHYS 4810: <i>Physics Concepts in Quantum Information Science and Technology</i>	3
PHYS 3990: <i>Methods of Experimental Physics II</i>	3	PHYS 4997R: <i>Research</i>	3
THSP 1090: <i>Public Speaking</i> (Writing and Communication)	3	Approved Technical Elective (3000-4000 Level)	3-4
Humanities and Fine Arts	3-4	Humanities and Fine Arts	3-4
Humanities and Fine Arts	3-4	Individual and Global Citizenship	3-4
	16-18		15-18

*If a student does not place into ENGL 1020 (30+ on ACT English or 680+ on SAT Verbal), ENGL 1010 or 1011 is required.

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
120 Total Hours		24-29 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		92-94 Program (Major) Hours	
30 Hours at UTC		Minor (<i>Not Required</i>)	
45 Hours at 4-year Institution		0-4 Elective Hours	
		Foreign Language (<i>Not Required</i>)	