

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

First Year – 34-35 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
BIOL 1110/1110L: <i>Principles of Biology I/Lab</i> (Natural Science)	4	BIOL 1120/1120L: <i>Principles of Biology II/Lab</i>	4
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
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
	16-17		18
Second Year – 30 Hours			
Fall Semester:	Hrs	Spring Semester:	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	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>	4	PHYS 2320/2320L: <i>Principles of Physics - Optics and Modern Physics/Lab</i>	4
	14		16
Third Year – 31-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
BIOL 3250: <i>Genetics</i>	3	CHEM 4510: <i>Biochemistry</i>	3
MATH 2450: <i>Intro to Differential and Difference Equations</i>	3	ENGL 2820: <i>Scientific Writing</i>	3
PHYS 3110/3110L: <i>Introduction to Thermal Physics/Lab</i>	4	PHYS 4110: <i>Introduction to Quantum Mechanics</i>	3
Behavioral and Social Science	3	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
	16-17		15
Fourth Year – 30-34 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
PHYS 3070/3070L: <i>Optics/Lab</i>	4	PHYS 4300/4300L: <i>Physics of Living Systems/Lab</i>	4
PHYS 3990: <i>Methods of Experimental Physics II/Lab</i>	3	PHYS Elective* (3000-4000 Level)	4
Humanities and Fine Arts	3-4	PHYS, CHEM, or BIO Elective (3000-4000 Level)**	3
Humanities and Fine Arts	3-4	Humanities and Fine Arts	3-4
		Individual and Global Citizenship	3-4
	13-15		17-19

*PHYS 3180 or PHYS 4997r is recommended.

**A minimum of 39 hours of upper division credit in Physics, Chemistry, and Biology is required. This requirement may be satisfied by upper division research credit

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
121 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		98 Program (Major) Hours	
30 Hours at UTC		Minor (<i>Not Required</i>)	
45 Hours at 4-year Institution		Elective Hours (<i>Not Required</i>)	
		Foreign Language (<i>Not Required</i>)	