

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

First Year – 32-34 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Has
CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i> (Natural Science)	4
MATH 1950: <i>Calculus w/ Analytic Geometry I</i> (Quantitative Reasoning)	4	MATH 1960: <i>Calculus w/ Analytic Geometry II</i>	4
PHYS 1250: <i>The First Year Experience in Physics</i>	1	PHYS 1350: <i>Intro 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
Humanities and Fine Arts	3-4	Behavioral and Social Science	3
	15-17		17
Second Year – 30-32 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
PHYS 2300/2300L: <i>Principles of Physics - Mechanics and Heat/Lab</i>	4	PHYS 2310/2310L: <i>Principles of Physics - Electricity and Magnetism/Lab</i>	4
MATH 2200: <i>Elementary Linear Algebra</i>	3	PHYS 2320/2320L: <i>Principles of Physics - Optics and Modern Physics/Lab</i>	4
MATH 2100: <i>Introductory Statistics</i> or MATH 3100: <i>Applied Statistics</i> (Quantitative Reasoning)	3	MATH 2450: <i>Introduction to Differential/Difference Equations</i>	3
Behavioral and Social Science	3	Humanities and Fine Arts	3-4
Humanities and Fine Arts	3-4		
	16-17		14-15
Third Year – 30 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
PHYS 3410/3410L: <i>Classical Mechanics/Lab</i>	4	PHYS 3420/3420L: <i>Electricity and Magnetism/Lab</i>	4
PHYS 3980: <i>Methods of Experimental Physics I</i>	3	ENGL 2820: <i>Scientific Writing</i>	3
MATH 2560: <i>Calculus w/ Analytic Geometry III</i>	4	Math/Science Elective (3000-4000 Level)	3
Math/Science Elective (3000-4000 Level)	3	Math/Science Elective (3000-4000 Level)	3
		Approved Oral Communication (THSP 1090)	3
	14		16
Fourth Year – 27-30 Hours			
<i>Fall Semester:</i>	Hrs	<i>Spring Semester:</i>	Hrs
PHYS 3990: <i>Methods of Experimental Physics II</i>	3	PHYS 4110: <i>Intro to Quantum Mechanics</i>	3
Math/Science Elective (3000-4000 Level)	3	Math/Science Elective (3000-4000 Level)	3
Math/Science Elective (3000-4000 Level)	3	Math/Science Elective (3000-4000 Level)	3
Math/Science Elective (3000-4000 Level)	3	Individual and Global Citizenship	3-4
Humanities and Fine Arts	3-4	Elective	0-1
	15-16		12-14

*Math/Science Electives may be chosen from physics, astronomy, chemistry, engineering, or Mathematics at the 3000 Level or above, or from geology and biology or other fields with prior approval by department.

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
120 Total Hours		27-33 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		92 Program (Major) Hours	
30 Hours at UTC		Minor Hours (<i>Not Required</i>)	
45 Hours at 4-year Institution		0-1 Elective Hours	
		Foreign Language (<i>Not Required</i>)	