

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

<b>First Year – 31-32 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
FAH: Historical Understanding	3	FAH: Literature	3
		Behavioral and Social Science	3
	14-15		17
<b>Second Year – 30 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
PHYS 2300/2300L: <i>Principles of Physics - Mechanics and Heat/Lab (Natural Science)</i>	4	PHYS 2310/2310L: <i>Principles of Physics - Electricity and Magnetism/Lab (Natural Science)</i>	4
MATH 2200: <i>Elementary Linear Algebra</i>	3	PHYS 2320/2320L: <i>Principles of Physics - Optics and Modern Physics/Lab</i>	4
Statistics	3	MATH 2450: <i>Intro to Differential/Difference Equations</i>	3
Behavioral and Social Science	3	FAH: Visual and Performing Arts	3
FAH: Thought, Values and Beliefs	3		
	16		14
<b>Third Year – 30 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
PHYS 3410/3410L: <i>Classical Mechanics/Lab</i>	4	PHYS 3420/3420L: <i>Electricity &amp; Magnetism/Lab</i>	4
MATH 2560: <i>Calculus w/ Analytic Geometry III</i>	4	ENGL 2820: <i>Scientific Writing</i>	3
PHYS 3980: <i>Methods of Experimental Physics I</i>	3	PHYS Elective (3000-4000 Level)	3
Math/Science Elective (2000-4000 Level)	3	Math/Science Elective (2000-4000 Level)	3
		Approved Oral Communication (THSP 1090)	3
	14		16
<b>Fourth Year – 28-29 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
PHYS 3990: <i>Methods of Experimental Physics II</i>	3	PHYS 4110: <i>Intro to Quantum Mechanics</i>	3
PHYS Elective (3000-4000 Level)	3	PHYS Elective (3000-4000 Level)	3
PHYS Elective (3000-4000 Level)	4	Math/Science Elective (3000-4000 Level)	3
Math/Science Elective (3000-4000 Level)	3	Non-Western Culture	3
Math/Science Elective (3000-4000 Level)	3	Elective	0-1
	16		12-13

\*Math/Science Electives may be chosen from physics, astronomy, chemistry, engineering, or mathematics at the 2000 Level or above, or from geology and biology or other fields with prior approval by department.

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
120 Total Hours		30-31 General Education Hours	
39 Upper Division (3000-4000) Hours		89 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
60 Hours at 4-year Institution		0-1 Elective Hours	
		Foreign Language ( <i>Not Required</i> )	