

[Please see the Courses section of this catalog for complete 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> (Nat Sci)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i> (Nat Sci)	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 (Rhetoric and Writing II)	3
FAH: Historical Understanding	3	Non-Western Culture	3
STEM 1030: Step One/Two: Inquiry-Based Math & Science Teaching	2		
	16-17		14
<b>Second Year – 31 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
STEM 2010: <i>Knowing and Learning</i>	3	STEM 2020: <i>Classroom Interactions</i>	3
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
ENGL 2820: <i>Scientific Writing</i>	3	PHYS 2320/2320L: <i>Principles of Physics: Optics and Modern Physics/Lab</i>	4
MATH 2200: <i>Elementary Linear Algebra</i>	3	MATH 2560: <i>Calculus with Analytic Geometry III</i>	4
Behavioral and Social Science	3		
	16		15
<b>Third Year – 32 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
STEM 3010: <i>Perspectives on Science &amp; Math</i>	3	STEM 3020: <i>Research Methods in Science</i>	3
PHYS 3410/3410L: <i>Classical Mechanics/Lab</i>	4	PHYS 3420/3420L: <i>Electricity &amp; Magnetism/Lab</i>	4
PHYS 3990: <i>Methods of Experimental Physics I</i>	3	PHYS/ASTR Elective (3000-4000 Level)	3
MATH 2450: <i>Intro to Differential/Difference Equations</i>	3	MATH 2100: <i>Introductory Statistics</i> (Statistics)	3
Behavioral and Social Science	3	FAH: Literature	3
	16		16
<b>Fourth Year – 30 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
STEM 4010: <i>Project-Based Instruction</i>	3	STEM 4020: <i>Apprentice Teaching</i>	6
PHYS 3980: <i>Methods of Experimental Physics II</i>	3	PHYS 4110: <i>Intro to Quantum Mechanics</i>	3
PHYS 4000r: <i>Physics Seminar</i>	1	PHYS/ASTR Elective (3000-4000 Level)	4
PHYS/ASTR Elective (3000-4000 Level)	4	FAH: Visual and Performing Arts	3
FAH: Thought, Values and Beliefs	3		
	14		16

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
123 Total Hours		27-28 General Education Hours	
39 Upper Division (3000-4000) Hours		96 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
60 Hours at 4-year Institution		Elective Hours ( <i>Not Required</i> )	
		Foreign Language ( <i>Not Required</i> )	