

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

<b>First Year – 39-32 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
MATH 1950: <i>Calculus w/ Analytic Geometry I (Quantitative Reasoning)</i>	4	MATH 1960: <i>Calculus w/ Analytic Geometry II</i>	4
CPSC 1100: <i>Fundamental of Computer Science</i>	4	MATH 2200: <i>Elementary Linear Algebra</i>	3
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
STEM 1030: <i>Step One/Two: Inquiry-Based Math &amp; Science Teaching</i>	2	Behavioral and Social Science	3
Elective	0-1	Humanities and Fine Arts	3-4
	13-15		16-17
<b>Second Year – 33-34 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
MATH 2300: <i>Mathematical Models, Functions &amp; Applications</i>	3	MATH 2560: <i>Calculus w/ Analytical Geometry III</i>	4
MATH 2450: <i>Intro to Differential/Difference Equations</i>	3	MATH 3000: <i>Intro to Logic and Proof</i>	3
PHYS 1030/1030L: <i>Gen Physics - Mechanics &amp; Heat/Lab</i> or PHYS 2300/2300L: <i>Principles of Physics - Mechanics &amp; Heat/Lab (Natural Science)</i>	4	PHYS 1040/1040L: <i>Gen Physics - Electromagnetism &amp; Optics/Lab</i> or PHYS 2310/2310L: <i>Principles of Physics - Electricity &amp; Magnetism (Natural Science)</i>	4
Humanities and Fine Arts	3-4	Behavioral and Social Science	3
	16-17		17
<b>Third Year – 27-32 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
MATH 3100: <i>Applied Statistics</i> or MATH 4130: <i>Intro to Probability and Statistics (Quantitative Reasoning)*</i>	3	MATH 3820: <i>Communicating Mathematics</i>	3
MATH 3250: <i>Intro to Modern Algebra</i> or MATH 4200: <i>Linear Algebra and Matrix Theory</i>	3	MATH 4010: <i>Basic Concepts of Geometry</i>	3
Humanities and Fine Arts	3-4	MATH Elective or MATH 4140: <i>Mathematical Statistics (Quantitative Reasoning)*</i>	3
Elective	0-3	Individual and Global Citizenship	3-4
	12-16		15-16
<b>Fourth Year – 24-28 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 4020r: <i>Apprentice Teaching</i>	6
MATH 3510: <i>Intro to Analysis I</i>	3	MATH Elective (3000-4000 Level)	3
EDUC 4170: <i>Technology &amp; Learning</i>	3	Humanities and Fine Arts	3-4
MATH Elective (3000-4000 Level)	3		
Elective	0-3		
	12-15		12-13

\*Must take either a) MATH 3100 and 9 credit hours of MATH Electives (3000-4000 level) or b) MATH 4130 and 4140 with 6 credit hours of MATH electives (3000-4000 level). *Either MATH 3100 or 4140 will fulfill the Quantitative Reasoning requirement.*

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
120 Total Hours		27-34 General Education Hours	
39 Upper Division (3000-4000) Hours		86 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
45 Hours at 4-year Institution		0-7 Elective Hours	
		Foreign Language ( <i>Not Required</i> )	