

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

<b>First Year – 32-33 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CPSC 1100: <i>Fundamentals of Computer Science</i>	4	CPSC 1110: <i>Data Structures and Program Design</i>	4
MATH 1950: <i>Calculus w Analytic Geometry I (Math)</i>	4	MATH 1960: <i>Calculus w Analytic Geometry II</i>	4
Natural Science with Lab Sequence*	4	Natural Science with Lab Sequence*	4
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
STEM 1030: <i>Step One/Two: Inquiry-Based Math &amp; Science Teaching</i>	2		
	17-18		15
<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
CPSC 2800: <i>Intro to Operating Systems</i>	3	CPSC 2100: <i>Software Design and Development</i>	3
MATH 2200: <i>Elementary Linear Algebra</i>	3	MATH 2030: <i>Discrete Math for Computer Science</i> or 3030: <i>Discrete Structures</i>	3
Natural Science	3	Natural Science with Lab	4
FAH: Historical Understanding	3	FAH: Literature	3
	15		16
<b>Third Year – 34 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
CPEN 3700: <i>Digital Logic &amp; Intro to Comp. Hardware</i>	4	CPSC 3200: <i>Algorithm Analysis &amp; Adv. Data Structure</i>	3
CPSC 3610: <i>Ethical &amp; Social Issues in Computing (FAH: Thought, Values and Beliefs)</i>	3	MATH 3100: <i>Applied Statistics</i> or ENCE 2220: <i>Probability &amp; Stats for Engineering (Statistics)</i>	3
MATH 3000: <i>Intro to Logic &amp; Proof</i>	3	Approved CPSC or Tech Elective (3000-4000 Level)	3
Approved CPSC or Tech Elective (3000-4000 Level)	3	FAH: Visual and Performing Arts	3
		Behavioral and Social Science	3
	16		18
<b>Fourth Year – 33 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
CPSC 4100: <i>Survey of Programming Languages</i>	3	CPSC 4910r: <i>Senior Capstone Proejct</i> or 4995r: <i>Thesis</i>	3
CPEN 4700: <i>Computer Architecture</i>	3	Behavioral and Social Science	3
CPSC 4900: <i>Software Engineering</i>	3	Non-Western Culture	3
MATH 4010: <i>Basic Concepts of Geometry</i>	3		
EDUC 4170: <i>Technology and Learning</i>	3		
	18		15

\*Lab Science Sequence from: BIOL 1110/1110L and BIOL 1120/1120L; CHEM 1110/1110L and CHEM 1120/1120L; or GEOL 1110/1110L and GEOL 1120/1120L or PHYS 1030/1030L and PHYS 1040/1040L.

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
130 Total Hours		24-25 General Education Hours	
39 Upper Division (3000-4000) Hours*		106 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> )	