

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

<b>First Year – 31-32 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CPSC 1000: <i>Intro to Computing</i>	3	CPSC 1110: <i>Data Structures and Program Design</i>	4
CPSC 1100: <i>Fundamentals of Computer Science</i>	4	MATH 1960: <i>Calculus w Analytic Geometry II</i>	4
MATH 1950: <i>Calculus w Analytic Geometry I (Math)</i>	4	Behavioral and Social Science	3
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
Behavioral and Social Science (ECON 1020 recommended)	3	FAH: Visual and Performing Arts	3
	17-18		14
<b>Second Year – 32 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CPSC 2800: <i>Intro to Operating Systems</i>	3	CPSC 2100: <i>Software Design and Development</i>	3
MATH 3100: <i>Applied Statistics (Statistics)</i>	3	Approved CPSC or Tech Elective (3000-4000 Level)	3
Natural Science with Lab Sequence	4	MGT 2140: <i>Data Modeling for Business</i>	3
FAH: Historical Understanding	3	Natural Science with Lab Sequence	4
FAH: Literature	3	MATH 2030: <i>Discrete Math for Comp. Science, 3030: Discrete Structures, or 3000: Intro to Logic &amp; Proof</i>	3
	16		16
<b>Third Year – 32 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CPEN 3700: <i>Digital Logic &amp; Intro to Comp. Hardware</i>	4	CPSC 3610: <i>Ethical &amp; Social Issues in Computing (FAH: Thought, Values and Beliefs)</i>	3
MGT 3110: <i>Operations Mgmt, 3560: Mgmt Science, or 4280: Supply Chain Mgmt</i>	3	MGT 3110: <i>Operations Mgmt, 3560: Mgmt Science, or 4280: Supply Chain Mgmt</i>	3
CPSC 3220: <i>File &amp; Data Processing</i>	3	CPSC 4240: <i>Principles of Data Analytics</i>	3
CPSC 3200: <i>Algorithm Analysis &amp; Advanced Data Structure</i>	3	Natural Science with Lab	4
MATH 2200: <i>Elementary Linear Algebra</i>	3	CPSC 4430: <i>Intro to Machine Learning</i>	3
	16		16
<b>Fourth Year – 27 Hours</b>			
<b>Fall Semester:</b>	<b>Hrs</b>	<b>Spring Semester:</b>	<b>Hrs</b>
CPSC 4900: <i>Software Engineering</i>	3	CPSC 4910r: <i>Senior Capstone</i> or 4995r: <i>Thesis</i>	3
CPEN 4700: <i>Computer Architecture</i>	3	Approved CPSC or Tech Elective (3000-4000 Level)	3
CPSC 4180: <i>Programming Languages for Adv. Data</i>	3	CPSC 4530: <i>Data Visualization and Exploration</i>	3
Natural Science	3	CPSC 4100: <i>Survey of Programming Languages</i>	3
Non-Western Culture	3		
	12		15

<b>Completed:</b>			
<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
122 Total Hours		24-25 General Education Hours	
39 Upper Division (3000-4000) Hours		98 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> )	