

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

First Year – 31-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
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	3		
	17-18		14
Second Year – 32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 2800: <i>Intro to Operating Systems</i>	3	CPSC 2100: <i>Software Design and Development</i>	3
MATH 2030: <i>Discrete Math for Comp. Science</i> , 3030: <i>Discrete Structures</i> , or 3000: <i>Intro to Logic & Proof</i>	3	MATH 3100: <i>Applied Statistics (Statistics)</i>	3
Natural Science with Lab Sequence	4	MATH 2200: <i>Elementary Linear Algebra</i>	3
FAH: Historical Understanding	3	Natural Science with Lab Sequence	4
FAH: Literature	3	FAH: Visual and Performing Arts	3
	16		16
Third Year – 32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPEN 3700: <i>Digital Logic & Intro to Comp. Hardware</i>	4	CPSC 3200: <i>Algorithm Analysis & Advanced Data Structure</i>	3
MGT 3110: <i>Operations Mgmt</i> , 3560: <i>Mgmt Science</i> , or 4280: <i>Supply Chain Mgmt</i>	3	MGT 3110: <i>Operations Mgmt</i> , 3560: <i>Mgmt Science</i> , or 4280: <i>Supply Chain Mgmt</i>	3
CPSC 3220: <i>File & Data Processing</i>	3	CPSC 4240: <i>Principles of Data Analytics</i>	3
CPSC 3610: <i>Ethical & Social Issues in Computing (FAH: Thought, Values and Beliefs)</i>	3	Natural Science with Lab	4
Approved CPSC or Tech Elective (3000-4000 Level)	3	Approved CPSC or Tech Elective (3000-4000 Level)	3
	16		16
Fourth Year – 27 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
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	CPSC 4430: <i>Intro to Machine Learning</i>	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

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
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>)	