

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

First Year – 34-36 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 1000: <i>Introduction 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</i> (Quantitative Reasoning)	4	Writing and Communication (ENGL 1020)	3
Writing and Communication (ENGL 1010 or 1011)	3-4	Behavioral and Social Science	3
Behavioral and Social Science	3	Humanities and Fine Arts	3-4
	17-18		17-18
Second Year – 30-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 2800: <i>Introduction to Operating Systems</i>	3	CPSC 2100: <i>Software Design and Development</i>	3
MATH 2100: <i>Introductory Statistics</i> or DATA 2130: <i>Statistics for Business</i> (Quantitative Reasoning)	3	CPEN 3700: <i>Digital Logic and Introduction to Computer Hardware</i>	4
Natural Science with Lab Sequence	4	MATH 2030: <i>Discrete Math for Computer Science</i> or MATH 3000: <i>Introduction to Logic and Proof</i>	3
Humanities and Fine Arts	3-4	Natural Science with Lab Sequence	4
Humanities and Fine Arts	3-4		
	16-18		14
Third Year – 31 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 3200: <i>Algorithm Analysis and Advanced Data Structures</i>	3	CPSC 4240: <i>Principles of Data Analytics</i>	3
CPSC 3220: <i>File and Database Processing</i>	3	CPSC 4430: <i>Introduction to Machine Learning</i>	3
CPSC 3610: <i>Ethical and Social Issues in Computing</i> (Humanities and Fine Arts)	3	Approved CPSC or Technical Elective (3000-4000 Level)	3
MATH 2200: <i>Elementary Linear Algebra</i>	3	DATA 3560: <i>Management Science</i>	3
DATA 2140: <i>Data Modeling for Business</i>	3	Natural Science with Lab	4
	15		16
Fourth Year – 27-28 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPEN 4700: <i>Computer Architecture</i>	3	CPSC 4100: <i>Survey of Programming Languages</i>	3
CPSC 4180: <i>Programming Languages for Advanced Data Analytics</i>	3	CPSC 4530: <i>Data Visualization and Exploration</i>	3
CPSC 4900: <i>Software Engineering</i>	3	CPSC 4910: <i>Senior Capstone Project</i> or CPSC 4995R: <i>Thesis</i>	3
Natural Science without Lab	3	Approved CPSC or Technical Elective (3000-4000 Level)	3
Individual and Global Citizenship	3-4		
	15-16		12

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
122 Total Hours		31-36 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		91 Program (Major) Hours	
30 Hours at UTC		Minor ( <i>Not Required</i> )	
45 Hours at 4-year Institution		Elective Hours ( <i>Not Required</i> )	
		Foreign Language ( <i>Not Required</i> )	