## Computer Science: Software Systems, B.S. (with Minor)

Please see the Courses section of this catalog for complete course descriptions.

First Year – 32-34 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 1100: Fundamentals of Computer Science	4	CPSC 1110: Data Structures and Program Design	4
MATH 1830: Calculus for Mgmt, Life & Social Sciences * or 1950: Calculus w Analytic Geometry I (Mathematics)	3-4	MATH 2100: Introductory Stats, ENCE 2220: Probability & Stats for Engr, or MGT 2130: Stats for Business (Statistics)	3
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
FAH: Historical Understanding	3	FAH: Literature	3
Behavioral and Social Science	3	FAH: Visual and Performing Arts	3
	16-18		16
Second Year – 32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 2800: Intro to Operating Systems	3	CPSC 2100: Software Design and Development	3
MATH 2030: Discrete Math for Comp. Science, 3030: Discrete Structures, or 3000: Intro to Logic & Proof	3	MATH 2200: Elementary Linear Algebra	3
Natural Science with Lab Sequence	4	Natural Science with Lab Sequence	4
Minor Course	3	Minor Course	3
Behavioral and Social Science	3	Minor Course	3
	16		16
Third Year – 29 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPEN 3700: Digital Logic & Intro to Comp. Hardware	4	CPSC 3200: Algorithm Analysis & Advanced Data Structure	3
Approved CPSC or Tech Elective (3000-4000 Level)**	3	Approved CPSC or Tech Elective (3000-4000 Level)**	3
CPSC 3610: Ethical & Social Issues in Computing (FAH: Thought, Values and Beliefs)	3	Natural Science with Lab	4
Math or Stats Elective (above 1830/1950 or 2100)	3	Non-Western Culture	3
Minor Course (3000-4000 Level)	3		
	16		13
Fourth Year – 27 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 4900: Software Engineering	3	CPSC 4910r: Senior Capstone or 4995r: Thesis	3
CPEN 4700: Computer Architecture	3	CPSC 4100: Survey of Programming Languages	3
Approved CPSC or Tech Elective (3000-4000 Level)**	3	Minor Course (3000-4000 Level)	3
Minor Course (3000-4000 Level)	3	Natural Science	3
Elective	1-3		
	13-15		12

<sup>\*</sup>Students taking MATH 1830 may need CPSC 1000 or MGT 1000 as a prerequisite for Math/Statistics Elective (MGT 2140).

<sup>\*\*</sup>If Business Administration Minor, then CPSC 1000, CPSC 3220 and CPSC 4270 are required.

Completed:				
Graduation Requirements:	Hrs	Degree Requirements:	Hrs	
122 Total Hours		24-25 General Education Hours		
39 Upper Division (3000-4000) Hours		75-76 Program (Major) Hours		
30 Hours at UTC		18 Minor Hours		
60 Hours at 4-year Institution		1-3 Elective Hours		
		Foreign Language (Not Required)		