CLEAR PATH for ADVISING –

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

Please refer to the Undergraduate Catalog for further program requirements and course descriptions.

First Year – 29-34 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, and Social Sciences* or MATH 1950: *Calculus w/ Analytic Geometry I* (Quantitative Reasoning)	3-4	ENCE 2220: *Probability and Statistics for Engineering* , MATH 2100: *Introductory Statistics* , or MGT 2130: *Statistics for Business* (Quantitative Reasoning)	3
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
Humanities and Fine Arts	3-4	Humanities and Fine Arts	3-4
Elective	0-1	Behavioral and Social Science	3
	13-17		16-17
Second Year – 32 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPSC 2800: *Introduction to Operating Systems*	3	CPSC 2100: *Software Design and Development*	3
MATH 2030: *Discrete Math for Computer Science* or MATH 3000: *Introduction to Logic and 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 – 32-34 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPEN 3700: *Digital Logic and Introduction to Computer Hardware*	4	CPSC 3200: *Algorithm Analysis and Advanced Data Structure*	3
CPSC 3610: *Ethical and Social Issues in Computing* (Humanities and Fine Arts)	3	Approved CPSC or Technical Elective (3000-4000 Level)**	3
MGT 2140: *Data Modeling for Business* , or Math elective above MATH 1830/1950, or Statistics Elective above MATH 2100)*	3	Natural Science with Lab	4
Approved CPSC or Technical Elective (3000-4000 Level)**	3	Humanities and Fine Arts	3-4
Minor Course (3000-4000 Level)	3	Individual and Global Citizenship	3-4
	16		16-18
Fourth Year – 24-26 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPEN 4700: *Computer Architecture*	3	CPSC 4100: *Survey of Programming Languages*	3
CPSC 4900: *Software Engineering*	3	CPSC 4910: *Senior Capstone* or CPSC 4995r: *Thesis*	3
Approved CPSC or Technical Elective (3000-4000 Level)**	3	Minor Course (3000-4000 Level)	3
Minor Course (3000-4000 Level)	3	Natural Science without Lab	3
Elective	0-2		
	12-14		12

*Additional courses may be required to meet prerequisite course selected. Consult Catalog and advisor.

**If Business Administration Minor, then CPSC 1000, CPSC 3220 and CPSC 4270 are required.

Completed:			
Graduation Requirements:	Hrs	**Degree Requirements:**	Hrs
120 Total Hours		31-36 General Education Hours	
39 Upper Division (3000-4000) Hours		68-69 Program (Major) Hours	
30 Hours at UTC		18 Minor Hours	
45 Hours at 4-year Institution		0-3 Elective Hours	
		Foreign Language *(Not Required)*	