CLEAR PATH for ADVISING –

Computer Science: Software Systems, B.S. (with Program of Study)

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

First Year – 32-37 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 1100: Fundamentals of Computer Science	4	CPSC 1110: Data Structures and Program Design	4
MATH 1950: Calculus w/ Analytic Geometry I or MATH		ENCE 2220: Probability and Statistics for Engineering,	
1830: Calculus for Mgt, Life, and Social Sciences	3-4	MATH 2100: Introductory Statistics, or DATA 2130:	3
(Quantitative Reasoning)		Statistics for Business (Quantitative Reasoning)	
Writing and Communication (ENGL 1010 or 1011)	3-4	Writing and Communication (ENGL 1020)	3
Behavioral and Social Science	3	Humanities and Fine Arts	3-4
Humanities and Fine Arts	3-4	Humanities and Fine Arts	3-4
	16-19		16-18
Second Year – 29-31 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
DATA 2140: <i>Data Modeling for Business</i> , Math Elective above MATH 1830/1950, or Statistics Elective above	3-4	Natural Science with Lab Sequence	4
Natural Science with Lab Sequence	4	Individual and Global Citizenship	3-4
Behavioral and Social Science	3		
	16-17	7	13-14
Third Year – 30-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPEN 3700: Digital Logic and Introduction to Computer Hardware	4	CPSC 3200: Algorithm Analysis and Advanced Data Structures	3
CPSC 3610: Ethical and Social Issues in Computing (Humanities and Fine Arts)	3	Approved CPSC or Technical Elective (3000-4000 Level)	
Approved CPSC or Technical Elective (3000-4000 Level)	3	Approved CPSC or Technical Elective (3000-4000 Level)	3
Approved CPSC or Technical Elective (3000-4000 Level)	3	Natural Science with Lab	4
Elective	2-3	Elective	2-3
	15-16		15-16
Fourth Year – 24-27 Hours	1-5-10		1-5-10
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	Approved CPSC or Technical Elective (3000-4000 Level)	3
Approved CPSC of Technical Elective (3000-4000 Level)	3	Natural Science without Lab	3
			5
Elective	0-3	-	
	12-15		12

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

Completed:				
Graduation Requirements:	Hrs	Degree Requirements:	Hrs	
120 Total Hours		31-34 General Education Hours		
39 Upper Division (3000-4000 Level) Hours		76-78 Program (Major) Hours		
30 Hours at UTC		Minor (Not Required)		
45 Hours at 4-year Institution		4-9 Elective Hours		
		Foreign Language (Not Required)		