CLEAR PATH for ADVISING –

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

2019-2020

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 – 29 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
Math or Stats Elective (above 1830/1950 or 2100)	3	Non-Western Culture	3
Behavioral and Social Science	3		
	16		13
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
CPSC 3610: *Ethical & Social Issues in Computing* (FAH: Thought, Values and Beliefs)	3	Approved CPSC or Tech Elective (3000-4000 Level)**	3
Approved CPSC or Tech Elective (3000-4000 Level)**	3	Approved CPSC or Tech Elective (3000-4000 Level)**	3
Approved CPSC or Tech Elective (3000-4000 Level)**	3	Natural Science with Lab	4
Elective	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	Approved CPSC or Tech Elective (3000-4000 Level)**	3
Approved CPSC or Tech Elective (3000-4000 Level)**	3	Natural Science	3
Elective	1-3		
	13-15		12

*Students taking MATH 1830 may need CPSC 1000 or MGT 1000 as a prerequisite for Math/Statistics Elective (MGT 2120).

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)*	