## **CLEAR PATH for ADVISING –**

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 1830:		ENCE 2220: Probability and Statistics for Engineering, MATH			
Calculus for Mgmt, Life, and Social Sciences (Quantitative	3-4	2100: Introductory Statistics, or DATA 2130: Statistics for	3		
Reasoning)		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 – 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	2	MATH 2200: Elementary Linear Algebra	3		
3000: Introduction to Logic and Proof	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 – 29-31 Hours					
Fall Semester:	Hrs	Spring Semester:	Hrs		
CPSC 3610: Ethical and Social Issues in Computing (Humanities		CDCC 2200: Alterrithm Analysis and Advanced Data Structures	2		
and Fine Arts)	3	CPSC 3200: Algorithm Analysis and Advanced Data Structures	3		
CPEN 3700: Digital Logic and Introduction to Computer Hardwar	e 4	Approved CPSC or Technical Elective (3000-4000 Level)**	3		
Approved CPSC or Technical Elective (3000-4000 Level)**	3	Natural Science with Lab	4		
DATA 2140: <i>Data Modeling for Business</i> , or Math elective above MATH 1830/1950, or Statistics Elective above MATH 2100*	3-4	Individual and Global Citizenship	3-4		
Minor Course (3000-4000 Level)	3				
	16-17		13-14		
Fourth Year – 24-27 Hours					
Fall Semester:	Hrs	Spring Semester:	Hrs		
CPSC 4900: Software Engineering	3	CPSC 4100: Survey of Programming Languages	3		
CPEN 4700: Computer Architecture	3	CPSC 4910: Senior Capstone Project or CPSC 4995r: Thesis	3		
Approved CPSC or Technical Elective (3000-4000 Level)**	3	Natural Science without Lab	3		
	3	Minor Course (3000-4000 Level)	3		
Vinor Course (3000-4000 Level)	3				
Minor Course (3000-4000 Level) Elective	3 0-3				

\*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		31-34 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		68-70 Program (Major) Hours	
30 Hours at UTC		18 Minor Hours	
45 Hours at 4-year Institution		0-3 Elective Hours	
		Foreign Language (Not Required)	