CLEAR PATH for ADVISING – *Computer Science: Cyber Security, B.S.*   **2024-2025**

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

First Year – 28-30 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* (Quantitative Reasoning)	4	CRMJ 1100: *Intro to the Criminal Justice System* (Behavioral and Social Science)	3
Writing and Communication (ENGL 1010 or 1011)	3-4	MATH 1960: *Calculus / Analytic Geometry II*	4
Humanities and Fine Arts	3-4	Writing and Communication (ENGL 1020)	3
	14-16		14
Second Year – 30-31 Hours			
Fall Semester:	**Hrs**	*Spring Semester:*	**Hrs**
CPSC 2100: *Software Design and Development*	3	CPSC 3600: *Principles of Information Security and Assurance*	3
CPSC 2800: *Introduction to Operating Systems*	3	CPEN 3700: *Digital Logic and Introduction to Computer Hardware*	4
MATH 2100: *Introductory Statistics,* MATH 3100: *Applied Statistics,* or ENCE 2220: *Probability and Statistics for Engineering* (Quantitative Reasoning)	3	MATH 2200: *Elementary Linear Algebra*	3
Natural Science with Lab Sequence	4	Natural Science with Lab Sequence	4
Humanities and Fine Arts	3-4		
	16-17		14
Third Year – 31-32 Hours			
Fall Semester:	**Hrs**	*Spring Semester:*	**Hrs**
CPSC 3220: *File and Database Processing*	3	CPSC 3200: *Algorithm Analysis and Advanced Data Structures*	3
CPSC 3610: *Ethical and Social Issues in Computing* (Humanities and Fine Arts)	3	CPSC 4600: *Biometrics and Cryptography*	3
CPSC 4550: *Computer Networks*	3	CPSC 4620: *Computer Network Security*	3
MATH 2030: *Discrete Math for Computer Science* or MATH 3000: *Introduction to Logic and Proof*	3	CPSC 4680: *Computer Crime Investigation*	3
Individual and Global Citizenship	3-4	CPEN 3710: *Computer System Organization and Assembly Language Programming*	4
	15-16		16
Fourth Year – 31-32 Hours			
Fall Semester:	**Hrs**	*Spring Semester:*	**Hrs**
CPSC 4270: *Database and Security*	3	CPSC 4100: *Survey of Programming Languages*	3
CPSC 4900: *Software Engineering*	3	CPSC 4660: *Systems Vulnerability Analysis and Auditing*	3
CPEN 4700: *Computer Architecture*	3	CPSC 4910: *Senior Capstone Project* or CPSC 4995r: *Thesis*	3
Natural Science with Lab	4	Natural Science without Lab	3
Humanities and Fine Arts	3-4	Behavioral and Social Science	3
	16-17		15

Completed:			
Graduation Requirements:	**Hrs**	**Degree Requirements:**	**Hrs**
120 Total Hours		21-26 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		99 Program (Major) Hours	
30 Hours at UTC		Minor *(Not Required)*	
45 Hours at 4-year Institution		Elective Hours *(Not Required)*	
		Foreign Language *(Not Required)*	