CLEAR PATH for ADVISING – *Computer Science: Cyber Security, B.S.*   **2019-2020**

Please see the Courses section of this catalog for complete course descriptions.

First Year – 28-29 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* (Math)	4	MATH 1960: *Calculus w Analytic Geometry II*	4
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
FAH: Historical Understanding	3	CRMJ 1100: *Intro to the Criminal Justice System* (Behavioral and Social Science)	3
	14-15		14
Second Year – 30 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPSC 2800: *Intro to Operating Systems*	3	CPSC 3600: *Principles of Info Security & Assurance*	3
CPEN 3700: *Digital Logic & Intro to Comp. Hardware*	4	MATH 2200: *Elementary Linear Algebra*	3
CPSC 2100: *Software Design and Development*	3	Approved CPSC or Tech Elective (3000-4000 Level)	3
Natural Science with Lab Sequence	4	Natural Science with Lab Sequence	4
		FAH: Literature	3
	14		16
Third Year – 31 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPSC 3220: *File & Data Processing*	3	CPSC 3200: *Algorithm Analysis & Advanced Data Structure*	3
CPSC 4550: *Computer Networks*	3	CPSC 4600: *Biometrics and Cryptography*	3
CPSC 3610: *Ethical & Social Issues in Computing* (FAH: Thought, Values and Beliefs)	3	CPEN 3710: *Computer System Organization & Assembly Language Programming*	4
MATH 2030: *Discrete Math for Comp. Science,* 3030: *Discrete Structures,* or 3000: *Intro to Logic & Proof*	3	MATH 3100: *Applied Stats,* 2100: *Introductory Stats,* or ENCE 2220: *Probability & Stats for Engr* (Statistics)	3
Approved CPSC or Tech Elective (3000-4000 Level)	3	FAH: Visual and Performing Arts	3
	15		16
Fourth Year – 31 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPSC 4900: *Software Engineering*	3	CPSC 4270: *Database & Security*	3
CPEN 4700: *Computer Architecture*	3	CPSC 4910r: *Senior Capstone* or 4995r: *Thesis*	3
Approved CPSC or Tech Elective (3000-4000 Level)	3	CPSC 4100: *Survey of Programming Languages*	3
Natural Science with Lab	4	Behavioral and Social Science	3
Non-Western Culture	3	Natural Science	3
	16		15

Completed:			
Graduation Requirements:	Hrs	**Degree Requirements:**	Hrs
120 Total Hours		21-22 General Education Hours	
39 Upper Division (3000-4000) Hours		99 Program (Major) Hours	
30 Hours at UTC		Minor *(Not Required)*	
60 Hours at 4-year Institution		Elective Hours *(Not Required)*	
		Foreign Language *(Not Required)*	