CLEAR PATH for ADVISING – *Computer Engineering, B.S.Cp.E.*   **2025-2026**

[Please refer to the Undergraduate Catalog for further program requirements and course descriptions.](#)

First Year – 35-36 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPSC 1100: *Fundamentals of Computer Science*	4	CPSC 1110: *Data Structures and Program Design*	4
ENME 1011: *Introduction to Two/Three-Dimensional Modeling*	1	ENME 1850: *Introduction to Engineering Design*	2
ENME 1030/1030L: *Basic Engineering Science/Lab*	4	ENCE 1040: *Vector Statics*	3
MATH 1950: *Calculus w/ Analytic Geometry I* (Quantitative Reasoning)	4	MATH 1960: *Calculus w/ Analytic Geometry II*	4
Writing and Communication (ENGL 1010 or 1011)	3-4	MATH 2200: *Elementary Linear Algebra*	3
		Writing and Communication (ENGL 1020)	3
	16-17		19
Second Year – 32 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPEN 3700: *Digital Logic and Introduction to Computer Hardware*	4	CHEM 1110/1110L: *General Chemistry I/Lab* (Natural Science)	4
ENEE 2700/2710L: *Electrical Circuits I/Lab*	4	ENEE 2720: *Electrical Circuits II*	3
MATH 2450: *Introduction to Differential/Difference Equations*	3	CPSC 2100: *Software Design and Development*	3
PHYS 2310/2310L: *Principles of Physics - Electricity and Magnetism/Lab* (Natural Science)	4	ENCE 2220: *Probability and Statistics for Engineering* (Quantitative Reasoning)	3
		MATH 2560: *Calculus w/ Analytic Geometry III*	4
	15		17
Third Year – 31 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPSC 2800: *Introduction to Operating Systems*	3	CPSC 3200: *Algorithm Analysis and Advanced Data Structure*	3
CPSC 3610: *Ethical and Social Issues in Computing* (Humanities and Fine Arts)	3	ENCE 3520: *Engineering Economy*	3
ENEE 3250: *Signals and Systems*	3	ENEE 3790: *Modern Control Systems Analysis and Design*	3
ENEE 3720/3720L: *Analog Electronics/Lab*	4	CPSC or CPEN or ENEE Elective (3000-4000 Level)	3
MATH 2030: *Discrete Mathematics for Computer Science*	3	Humanities and Fine Arts	3
	16		15
Fourth Year – 31-32 Hours			
Fall Semester:	Hrs	*Spring Semester:*	Hrs
CPSC 4550: *Computer Networks*	4	CPEN 4710: *Advanced Computer Systems* or ENEE 4710: *Embedded Systems*	3-4
CPEN 3710: *Computer System Organization and Assembly Language Programming*	3	CPEN 4850: *Interdisciplinary Design Project II**	3
CPEN 3850: *Interdisciplinary Design Project I*	3	CSPC or CPEN or ENEE Elective (3000-4000 Level)	3
CPEN 4700: *Computer Architecture*	3	Individual and Global Citizenship	3
Behavioral and Social Science	3	Behavioral and Social Science	3
	16		15-16

*Qualified students may substitute CPEN 4995r or ENGR 4995r: *Departmental Thesis* (4hrs) for CPSC 4850.

Graduation Requirements:	Hrs	Degree Requirements:	Hrs
128 Total Hours		18-19 General Education Hours	
39 Upper Division (3000-4000 Level) Hours		111-112 Program (Major) Hours	
32 Hours at UTC		Minor *(Not Required)*	
45 Hours at 4-year Institution		Elective Hours *(Not Required)*	
		Foreign Language *(Not Required)*	