

[Please see the Courses section of this catalog for complete course descriptions.](#)

First Year – 32-33 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 1100: <i>Fundamentals of Computer Science</i>	4	CPSC 1110: <i>Data Structures and Program Design</i>	4
ENME 1030/1030L: <i>Basic Engineering Science/Lab</i>	4	ENCE 1040: <i>Vector Statics</i>	3
MATH 1950: <i>Calculus w Analytic Geometry I (Math)</i>	4	MATH 1960: <i>Calculus w Analytic Geometry II</i>	4
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	MATH 2200: <i>Elementary Linear Algebra</i>	3
		ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
	15-16		17
Second Year – 34-35 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPSC 2800: <i>Intro to Operating Systems</i>	3	CPSC 2100: <i>Software Design and Development</i>	3
CPEN 3700: <i>Digital Logic & Intro to Comp. Hardware</i>	4	ENCE 2220: <i>Probability & Stats for Engineering</i>	3
ENEE 2700/2710L: <i>Electrical Circuits I/Lab</i>	4	ENEE 2720: <i>Electrical Circuits II</i>	3
MATH 2450: <i>Intro to Differential/Difference Equations</i>	3	MATH 2560: <i>Calculus w Analytic Geometry III (or 2550)</i>	3-4
PHYS 2310/2310L: <i>Principles of Physics - Electricity & Magnetism/Lab (Natural Science)</i>	4	CHEM 1110/1110L: <i>General Chemistry I/Lab (Natural Science)</i>	4
	18		16-17
Third Year – 31 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
ENEE 3250: <i>Signals & Systems</i>	3	CPSC 3200: <i>Algorithm Analysis & Adv Data Structure</i>	3
ENEE 3720/3720L: <i>Analog Electronics/Lab</i>	4	ENEE 3790: <i>Modern Control Systems Analysis & Design</i>	3
MATH 2030: <i>Discrete Math for Computer Science</i>	3	ENME 3050: <i>Thermo-Fluids</i>	3
CPSC 3610: <i>Ethical & Social Issues in Computing (FAH: Thought, Values and Beliefs)</i>	3	ENCE 3520: <i>Engineering Economy</i> or ENIE 3520: <i>Project & Economic Engineering</i>	3
FAH: <i>Historical Understanding or Literature or Visual and Performing Arts</i>	3	CSPC or CPEN or ENEE Elective (3000-4000 Level)	3
	16		15
Fourth Year – 31 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CPEN 3710: <i>Computer System Organization & Assembly Language Programing</i>	4	CPEN 4710: <i>Adv. Comp. Systems, 4720: Embedded Microcontroller Systems</i> or ENEE 4710: <i>Embedded Systems</i>	3
CPEN 3850: <i>Interdisciplinary Design Project I</i>	3	CPEN 4850: <i>Interdisciplinary Design Project II*</i>	3
CPSC 4550: <i>Computer Networks</i>	3	CSPC or CPEN or ENEE Elective (3000-4000 Level)	3
CPEN 4700: <i>Computer Architecture</i>	3	Non-Western Culture	3
Behavioral and Social Science	3	Behavioral and Social Science	3
	16		15

*Qualified students may substitute CPEN 4995r or ENGR 4995r: *Departmental Thesis.*

Graduation Requirements:	Hrs	Degree Requirements:	Hrs
128 Total Hours		18-19 General Education Hours	
39 Upper Division (3000-4000) Hours		110-111 Program (Major) Hours	
32 Hours at UTC		Minor (<i>Not Required</i>)	
60 Hours at 4-year Institution		Elective Hours (<i>Not Required</i>)	
		Foreign Language (<i>Not Required</i>)	