

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

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

<b>Graduation Requirements:</b>	<b>Hrs</b>	<b>Degree Requirements:</b>	<b>Hrs</b>
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 ( <i>Not Required</i> )	
45 Hours at 4-year Institution		Elective Hours ( <i>Not Required</i> )	
		Foreign Language ( <i>Not Required</i> )	