

[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: <i>Fundamentals of Computer Science</i> | 4 | CPSC 1110: <i>Data Structures and Program Design</i> | 4 |
| ENME 1011: Intro to 2 & 3 Dimensional Modeling | 1 | ENME 1850: Intro to Engineering Design | 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 (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 |
| | 16-17 | | 19 |
| Second Year – 32 Hours | | | |
| Fall Semester: | Hrs | Spring Semester: | Hrs |
| CPEN 3700: <i>Digital Logic & Intro to Comp. Hardware</i> | 4 | CPSC 2100: <i>Software Design and Development</i> | 3 |
| ENEE 2700/2710L: <i>Electrical Circuits I/Lab</i> | 4 | ENCE 2220: <i>Probablity & Stats for Engineering (Statistics)</i> | 3 |
| MATH 2450: <i>Intro to Differential/Difference Equations</i> | 3 | ENEE 2720: <i>Electrical Circuits II</i> | 3 |
| 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 |
| | | MATH 2560: <i>Calculus w Analytic Geometry III</i> | 4 |
| | 15 | | 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 | ENCE 3520: <i>Engineering Economy</i> or ENIE 3520: <i>Project & Economic Engineering</i> | 3 |
| CPSC 2800: <i>Intro to Operating Systems</i> | 3 | CSPC or CPEN or ENEE Elective (3000-4000 Level) | 3 |
| CPSC 3610: <i>Ethical & Social Issues in Computing (FAH: Thought, Values and Beliefs)</i> | 3 | FAH: <i>Historical Understanding or Literature or Visual & Performing Arts</i> | 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 | | 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>) | |