Please refer to the Undergraduate Catalog for further program requirements and course descriptions.

| First Year - 34-36 Hours |  |  |  |
| :---: | :---: | :---: | :---: |
| Fall Semester: | Hrs | Spring Semester: | Hrs |
| CPSC 1000: Introduction to Computing | 3 | CPSC 1110: Data Structures and Program Design | 4 |
| CPSC 1100: Fundamentals of Computer Science | 4 | MATH 1960: Calculus w/ Analytic Geometry II | 4 |
| MATH 1950: Calculus w/ Analytic Geometry I (Quantitative Reasoning) | 4 | Writing and Communication (ENGL 1020) | 3 |
| Writing and Communication (ENGL 1010 or 1011) | 3-4 | Behavioral and Social Science | 3 |
| Behavioral and Social Science | 3 | Humanities and Fine Arts | 3-4 |
|  | 17-18 |  | 17-18 |
| Second Year - 30-32 Hours |  |  |  |
| Fall Semester: | Hrs | Spring Semester: | Hrs |
| CPSC 2800: Introduction to Operating Systems | 3 | CPSC 2100: Software Design and Development | 3 |
| MATH 2100: Introductory Statistics or DATA 2130: Statistics for Business (Quantitative Reasoning) | 3 | CPEN 3700: Digital Logic and Introduction to Computer Hardware | 4 |
| Natural Science with Lab Sequence | 4 | MATH 2030: Discrete Math for Computer Science or MATH 3000: Introduction to Logic and Proof | 3 |
| Humanities and Fine Arts | 3-4 | Natural Science with Lab Sequence | 4 |
| Humanities and Fine Arts | 3-4 |  |  |
|  | 16-18 |  | 14 |
| Third Year - 31 Hours |  |  |  |
| Fall Semester: | Hrs | Spring Semester: | Hrs |
| CPSC 3200: Algorithm Analysis and Advanced Data Structures | 3 | CPSC 4240: Principles of Data Analytics | 3 |
| CPSC 3220: File and Database Processing | 3 | CPSC 4430: Introduction to Machine Learning | 3 |
| CPSC 3610: Ethical and Social Issues in Computing (Humanities and Fine Arts) | 3 | Approved CPSC or Technical Elective (3000-4000 Level) | 3 |
| MATH 2200: Elementary Linear Algebra | 3 | DATA 3560: Management Science | 3 |
| DATA 2140: Data Modeling for Business | 3 | Natural Science with Lab | 4 |
|  | 15 |  | 16 |
| Fourth Year - 27-28 Hours |  |  |  |
| Fall Semester: | Hrs | Spring Semester: | Hrs |
| CPEN 4700: Computer Architecture | 3 | CPSC 4100: Survey of Programming Languages | 3 |
| CPSC 4180: Programming Languages for Advanced Data Analytics | 3 | CPSC 4530: Data Visualization and Exploration | 3 |
| CPSC 4900: Software Engineering | 3 | CPSC 4910: Senior Capstone Project or CPSC 4995r: Thesis | 3 |
| Natural Science without Lab | 3 | Approved CPSC or Technical Elective (3000-4000 Level) | 3 |
| Individual and Global Citizenship | 3-4 |  |  |
|  | 15-16 |  | 12 |


| Completed: |  |  |  |
| :--- | :--- | :--- | :--- |
| Graduation Requirements: | Hrs | Degree Requirements: | Hrs |
| 122 Total Hours |  | $24-29$ General Education Hours |  |
| 39 Upper Division (3000-4000 Level) Hours |  | 98 Program (Major) Hours |  |
| 30 Hours at UTC |  | Minor (Not Required) |  |
| 45 Hours at 4-year Institution |  | Elective Hours (Not Required) |  |
|  |  | Foreign Language (Not Required) |  |

