Computer Science, A.S. – Engineering  

<table>
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<tr>
<th>Student's Name:</th>
<th>Advisor's Name:</th>
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**Fall 2019**

**Student may need to take the following courses:**
- □ INTD 095 Integrated Developmental Reading/Writing
- □ OR ENGL 098/100 - Accelerated Writing Skills/Academic Writing
- □ MATH 090 - Pre-Algebra
- □ □ MATH 138 - Pre-Calculus Mathematics
- □ MATH 095 - Beginning Algebra
- □ □ RDNG 116 - College Reading and Study Skills
- □ MATH 120 - College Algebra
- □ Other:

<table>
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<tr>
<th>Course Requirement</th>
<th>Course Title</th>
<th>Credits</th>
<th>Min. Grade</th>
<th>Grade Earned</th>
<th>T - Transfer</th>
<th>Semester Completed</th>
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**FIRST YEAR**

**FALL**
- CAPS 131 Introduction to Databases 1
- CSCI 160 OR CIS 108 Computer Science I OR Introduction to Computer Info Systems 3
- ENGL 100 Academic Writing I* 3 C
- MATH 200 Statistics 3
- MATH 201 Calculus I 4 C

**Total Credits** 14

**SPRING**
- CSCI 165 Computer Science II 3
- ENGL 101 Academic Writing II 3
- MATH 216 Discrete Mathematics 4
- MATH 202 Calculus II 4 C
- PHSC 211 Physics I (Mechanics and Heat) 4

**Total Credits** 18

**SECOND YEAR**

**FALL**
- CIS 220 Database Concepts 3
- CSCI 205 Computer Science III - Data Structures 3
- ENGL 102 Approaches to Literature 3
- MATH 203 Calculus III 4
- PHSC 212 Physics II (Electricity & Magnetism) 4

**Total Credits** 17

**SPRING**
- CSCI 210 Computer Architecture & Organization 3
- ENGL 201 OR ENGL 204 Fundamentals of Speech OR Fundamentals of Interpersonal Communication 3
- SUNY GEN ED Restricted Elective** 3
- SUNY GEN ED Restricted Elective** 3
- SUNY GEN ED Social Sciences Elective 3

**Total Credits** 15

**Minimum Credits Required for Graduation:** 64

* A student exempted from ENGL 100 should substitute MATH 206 Differential Equations. (A "C" or better grade in MATH 203, or a "B" or better grade in MATH 202 is a prerequisite for MATH 206.)

**Select from approved courses for two of the following SUNY GEN ED areas: 4-American History, 5-Western Civilization, 6-Other World Civilizations, 8-The Arts, or 9-Foreign Language.

A "C" or better grade is required in ENGL 100, MATH 201, and MATH 202.

**NOTES:**

**Requirements last updated Fall 2017**

Go to [http://catalog.tompkinscortland.edu/academics/general-education](http://catalog.tompkinscortland.edu/academics/general-education) for SUNY General Education and Liberal Arts & Sciences Disciplines/Courses.