

# Honors Computing Science - Software Practice Option Requirements (72)

## Foundation Courses

- CMPUT 174 - Introduction to the Foundations of Computation I (See Note 1)
- CMPUT 175 - Introduction to the Foundations of Computation II (See Note 1)

### 3 units from:

- MATH 117 - Honors Calculus I
- MATH 134 - Calculus for the Life Sciences I
- MATH 144 - Calculus for the Mathematical and Physical Sciences I
- MATH 154 - Calculus for Business and Economics I \_\_\_\_\_

### 3 units from:

- MATH 118 - Honors Calculus II
- MATH 136 - Calculus for the Life Sciences II
- MATH 146 - Calculus for the Mathematical and Physical Sciences II
- MATH 156 - Calculus for Business and Economics II \_\_\_\_\_

### 3 units from:

- MATH 125 - Linear Algebra I
- MATH 127 - Honors Linear Algebra I \_\_\_\_\_

### 3 units from:

- STAT 151 - Introduction to Applied Statistics I
- STAT 235 - Introductory Statistics for Engineering
- STAT 265 - Probability and Statistics I \_\_\_\_\_

## Senior Courses

- CMPUT 201 - Practical Programming Methodology (See Note 1)
- CMPUT 204 - Algorithms I
- CMPUT 229 - Computer Organization and Architecture I
- CMPUT 272 - Formal Systems and Logic in Computing Science
- CMPUT 291 - Introduction to File and Database Management
- CMPUT 301 - Introduction to Software Engineering
- CMPUT 325 - Non-Procedural Programming Languages
- CMPUT 379 - Operating System Concepts
- CMPUT 401 - Software Process and Product Management
- CMPUT 402 - Software Quality

### 3 units from:

- STAT 252 - Introduction to Applied Statistics II
  - STAT 266 - Probability and Statistics II
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### 3 units from:

- CMPUT 200 - Ethics of Data Science and Artificial Intelligence
  - CMPUT 300 - Computers and Society
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### 3 units from:

- CMPUT 304 - Algorithms II (See Note 2)
- CMPUT 340 - Introduction to Numerical Methods (See Note 2)
- CMPUT 474 - Formal Languages, Automata, and Computability \_\_\_\_\_

### 3 units from:

- CMPUT 399 - Topics in Computing Science (See Note 2)
- CMPUT 469 - Artificial Intelligence Capstone
- CMPUT 499 - Topics in Computing Science \_\_\_\_\_

### Notes:

1. Students may replace CMPUT 174 with CMPUT 274, and CMPUT 175 with CMPUT 275. Students who take CMPUT 275 cannot take CMPUT 201 for credit, and must replace CMPUT 201 with another CMPUT course at the 200-level or above.
2. At least 18 CMPUT units must be taken at the 400-level.
3. Upper level CMPUT courses may require specific CMPUT, MATH or STAT courses as prerequisites. These prerequisites must be considered when choosing Science options.

- COMM
- COMM
- IND
- BO\_\_
- BO\_\_
- BSBS
- BSFS
- BSSS
- LAB

**12 units from:**

CMPUT at the 300 and/or 400-level

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**9 units from:**

CMPUT at the 400-level

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**6 units from\*:**

BTM, MGTSC and/or OM

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**6 units from\*:**

Courses offered by the Faculty of Business

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\*except for BTM 211, BTM 415, BTM 419, and MGTSC 212