

# B.Sc. Honours Computer Science

## C1. Science Requirement (15cu)

|          |  |     |
|----------|--|-----|
| CMPT 111 | Intro to Computer Science  | CST |
| CMPT 115 | Principles of Computer Science   | CST |
|          | <i>Select additional 9cu from Science Areas below; no more than 6cu from any one area.</i> | 1   |
|          |  | 1   |
|          |  | 2   |

**Science Areas:** **Biology:** BIOL 120, 121; **Chemistry:** CHEM 112, 115, 250;  
**Earth Sciences:** GEOG 120, GEOL 121, 122;  
**Physics&Astronomy :** ASTR 103; PHYS 115, 117 or 125, 127.

## C2. Humanities Writing Requirement (6cu)

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## C3. Social Science Requirement (6cu)

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## C5. General Requirement (6cu)

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|  | <b>Important:</b> Must be 3cu at senior level. |  |
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No more than 6 credit units in C2, C3, or C5 from any one subject.

See the College Website for a full list of courses that meet requirements C2, C3, C5:

<http://www.usask.ca/programs/colleges-schools/arts-science/computer-science/index.php>

## C4. Mathematics Requirement (6cu)

|          |             |  |
|----------|-------------|--|
| MATH 110 | Calculus I  |  |
| MATH 116 | Calculus II |  |

## C7. Cognate Mathematics Requirement (9cu)

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|----------|--------------------|--|
| MATH 264 | Or MATH 266.       |  |
| STAT 241 | Probability Theory |  |
| STAT 245 | Or STAT 242.       |  |

## C6. Majors Requirement (48cu)

|                     |   |     |
|---------------------|---|-----|
| CMPT 214            | Programming Principles                    | CST |
| CMPT 215            | Computer Organization                     | S   |
| CMPT 260            | Math. Logic and Computing                 | 1   |
| CMPT 270            | Object Oriented Systems                   | CST |
| CMPT 280            | Intermediate Data Structures              | S   |
| CMPT 332            | Operating Systems Concepts                | 1   |
| CMPT 340            | Programming Language Paradigms            | 1   |
| CMPT 360            | Machines and Algorithms                   | 2   |
| CMPT 400            | Research Topics in Computer Science       | 2   |
| CMPT                | <i>Choose one of 364, 461, 463</i>        | 2   |
| CMPT 350            |   | CST |
| CMPT 355            | Theory and Appl. of Databases             | CST |
| CMPT                | <i>Choose 2 with number 410 or higher</i> | 2   |
| CMPT                |   | 2   |
| CMPT 3XX (SE)       |   | CST |
| CMPT 3YY (networks) |   | CST |

## C7. Electives Requirement (30cu)

|                          |   |     |
|--------------------------|---|-----|
| CMPT 100                 |   | CST |
| CMPT 281                 |   | CST |
| <b>15cu</b> JR electives | <i>Includes Business Science requirement.</i> | CST |
| <b>9cu</b> SR electives  |   | CST |