## B.Sc. Honours Computer Science - Software Engineering Option

### C1. Science Requirement (15cu)
- **CMPT 111** Intro to Computer Science  
  CST
- **CMPT 115** Principles of Computer Science  
  CST
- **Select additional 9cu from Science Areas below; no more than 6cu from any one area.**  

### 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)

### C3. Social Science Requirement (6cu)

### C5. General Requirement (6cu)

**Important**: Must be 3cu at senior level.

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 264 or 266** Linear Algebra

### 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 355** Theory and Appl. of Databases  
  CST
- **CMPT 360** Machines and Algorithms  
  2
- **CMPT 370** Intermediate Software Engineering  
  2
- **CMPT 371** Software Management  
  2
- **CMPT 3XX (SE)**  
  CST
- **CMPT 3YY (networks)**  
  CST
- **CMPT 470** Advanced Software Engineering  
  3
- **CMPT 481** Human-Computer Interfaces  
  3
- **CMPT 350**  
  CST

CMPT 405, CMPT 408 requirement removed under this agreement.

### C7. Electives Requirement (30cu)
- **CMPT 100**  
  CST
- **CMPT 281**  
  CST
- **15cu JR electives** Includes Business Science requirement.  
  CST
- **9cu SR electives**  
  CST

### C7. Cognate Mathematics Requirement (6cu)
- **STAT 245** Introductory Statistics*  
  2
- **3cu from Mathematics List**  
  2

**Mathematics**: MATH 112 or 116, 211, 223, 225, 276, 327, 328, 364;  
**List**: MATH 363 or MATH 361 and MATH 362;  
STAT 241, 344, 345, 348; PHIL 243.

Cognate Mathematics requirement is reduced to 6cu under this agreement.

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