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

### C1. Science Requirement (15cu)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPT 141</td>
<td>Intro to Computer Science</td>
<td>1</td>
</tr>
<tr>
<td>CMPT 145</td>
<td>Principles of Computer Science</td>
<td>1</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
</table>

### C5. General Requirement (6cu)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
</table>

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](http://www.usask.ca/programs/colleges-schools/arts-science/computer-science/index.php)

### C4. Mathematics Requirement (6cu)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>Calculus I</td>
<td>1</td>
</tr>
<tr>
<td>MATH 264 or 266</td>
<td>Linear Algebra</td>
<td>2</td>
</tr>
</tbody>
</table>

### C7. Electives Requirement (24cu)

See Business Science Note.

**Courses to complete the requirements for 120 cu Honours program, of which at least 66 must be at the 200-level or higher.**

### C6. Majors Requirement (48cu)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPT 214</td>
<td>Programming Principles</td>
<td>2</td>
</tr>
<tr>
<td>CMPT 215</td>
<td>Computer Organization</td>
<td>2</td>
</tr>
<tr>
<td>CMPT 260</td>
<td>Math. Logic and Computing</td>
<td>2</td>
</tr>
<tr>
<td>CMPT 270</td>
<td>Object Oriented Systems</td>
<td>2</td>
</tr>
<tr>
<td>CMPT 280</td>
<td>Intermediate Data Structures</td>
<td>2</td>
</tr>
<tr>
<td>CMPT 332</td>
<td>Operating Systems Concepts</td>
<td>3/4</td>
</tr>
<tr>
<td>CMPT 340</td>
<td>Programming Language Paradigms</td>
<td>3/4</td>
</tr>
<tr>
<td>CMPT 355</td>
<td>Theory and Appl. of Databases</td>
<td>3/4</td>
</tr>
<tr>
<td>CMPT 360</td>
<td>Machines and Algorithms</td>
<td>3/4</td>
</tr>
<tr>
<td>CMPT 370</td>
<td>Intermediate Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CMPT 371</td>
<td>Software Management</td>
<td>3</td>
</tr>
<tr>
<td>CMPT 405</td>
<td>(or CSPIP + Elective)</td>
<td>4</td>
</tr>
<tr>
<td>CMPT 408</td>
<td>Ethics in Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CMPT 470</td>
<td>Advanced Software Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CMPT 481</td>
<td>Human-Computer Interfaces</td>
<td>4</td>
</tr>
<tr>
<td>CMPT Elective</td>
<td>3cu of 300- or 400-level CMPT courses, BINF 300, or at most 2 of: CME 332, 341, 342, 433, 435, 451, 462.</td>
<td></td>
</tr>
</tbody>
</table>

### C7. Electives Requirement (24cu)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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</thead>
</table>

Courses to complete the requirements for 120 cu Honours program, of which at least 66 must be at the 200-level or higher.

**Statistics Note:** Engineering students may use EE 216 or ME 251.

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

**Business Science Note**

If ECON 111 or 114 is used to meet requirement C3, the slot becomes a free elective. Otherwise, the slot becomes a Business Science Requirement from the following list: CMPT 275; COMM 101, 102, 105, 201, 203, 204, 205, 206, 210, 304; ECON 111, 114; BPBE 230; ENT 210, 220, 230.

2016/03/11