# Software Systems Major Graduation Plan

**FOR STUDENTS APPROVED AS SOFTWARE SYSTEMS MAJORS BEGINNING FALL 2010**

Student Name: __________________________ Student ID: __________________________ Date: __________________________

Admit Term: ______ Term Approved: _______ Other Major/Minor: _______________ Email: __________________________

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**LOWER DIVISION REQUIREMENTS:** Students **must complete** all of the following:

<table>
<thead>
<tr>
<th>SYSTEMS ONE (15-18 Units)</th>
<th>SOFTWARE SYSTEMS (42-43 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPT 105W</td>
<td>CMPT 225</td>
</tr>
<tr>
<td>CMPT 106</td>
<td>CMPT 212</td>
</tr>
<tr>
<td>CMPT 120/125 or 128</td>
<td>CMPT 250</td>
</tr>
<tr>
<td>CMPT 150</td>
<td>CMPT 276</td>
</tr>
<tr>
<td>ENSC 182</td>
<td>MATH 151 OR 150 (UB)</td>
</tr>
</tbody>
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**UPPER DIVISION REQUIREMENTS:** Students **must complete** all of the following (27 UD CS Units):

**FUNDAMENTALS** (6 Units)  |  **SYSTEMS** (3 Units)  |  **SOFTWARE ENGINEERING** (9 Units)  
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CMPT 307 | CMPT 300 | CMPT 373  
CMPT 322W | ELECTIVES – Choose 2 of the following: (6 Units) |  
CMPT 170 | CMPT 433 | CMPT 473  
CMPT 354 | CMPT 454 |  
CMPT 371 | CMPT 470 | CMPT 383 | CMPT 474  
CMPT 401 | CMPT 471 | CMPT 384 | CMPT 477  
CMPT 432 |  

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**ADDITIONAL UD CS UNITS FROM TABLE 1** (9 units)  
CMPT/MACM  
CMPT/MACM  
CMPT/MACM

**Depth Requirement**  
Students must complete at least nine CMPT or MACM units at the 400 Division (eg: CMPT 433, CMPT 454, CMPT 474)

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**Graduation Requirements – 120 Units Total**  
45 Upper Division (UD) Units  
36 Upper Division (UD) CS Units

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**OPTIONAL CO-OPERATIVE EDUCATION** (15 Units)  
CMPT 426  Practicum I  
CMPT 427  Practicum II  
CMPT 428  Practicum III  
CMPT 429  Practicum IV  
CMPT 430  Practicum V  

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This is a guideline only. For full regulations refer to the SFU Calendar.  
Updated: Nov ‘16
1. **LOWER DIVISION REQUIREMENTS (or equivalents):**
   - Students will choose to complete CMPT 120 & CMPT 125, or CMPT 128
   - CMPT 275 may be substituted for CMPT 276 (we strongly encourage students to take CMPT 276, offered at SFU Surrey)
   - MATH 154 or 157 may be substituted for either MATH 151 or 150, but only with a grade of B+ or better
   - CMPT 212 should be taken after completing CMPT 225

   **WQB requirements - Students need to complete:**
   - One Lower Division (LD) Writing Course (CMPT 105W)
   - One Upper Division (UD) Writing Course (CMPT 322W)
   - 6 units of Breadth Science (B-Sci)
   - 6 units of Breadth Social (B-Soc)
   - 6 units of Breadth Humanities (B-Hum)
   - 6 units of Undesignated Breadth (UB)

   Please refer to: [http://www.sfu.ca/ugcr/for_faculty/certified_wqb_courses.html](http://www.sfu.ca/ugcr/for_faculty/certified_wqb_courses.html) for courses that fulfill these requirements.

   Some courses may fulfill two requirements. For instance, a course may count as both a Q and a B, a W and a B, or a W and a Q. No course may fulfill two B requirements. Some courses may have multiple B designations (such as B-Soc and B-Hum), but students will have to select one designation for their requirement. For complete WQB regulations please refer to: [http://www.sfu.ca/ugcr/for_students/wqb_requirements.html](http://www.sfu.ca/ugcr/for_students/wqb_requirements.html)

2. **UPPER DIVISION REQUIREMENTS:**

   **Required Courses** - Students are required to complete all required courses from the Software Engineering, Systems, and Fundamentals areas.

   **Elective Courses** - Students are required to select elective courses from the lists shown for each of the Software Engineering and Systems areas.

   *Students will have room to take elective credits in order to complete 120 credits required for graduation.*

   **Faculty of Applied Science Requirements** - At least two thirds of the total Upper Division (UD) units in the program must have been completed at Simon Fraser University. Please refer to current SFU calendar for details.

3. **CO-OPERATIVE EDUCATION**

   Combines work experience with academic studies—all students are encouraged to apply. Co-op is not mandatory; however, students completing 3 co-op placements will receive a certificate of completion while students completing 4 or more co-op placements will receive the co-op designation on their transcript and parchment. For more information about Co-op, please see: [http://www.sfu.ca/coop/cmpt/home](http://www.sfu.ca/coop/cmpt/home)