# JOINT MAJOR
COMPUTING SCIENCE AND MOLECULAR BIOLOGY AND BIOCHEMISTRY

ACADEMIC PLANNING FORM FOR STUDENTS BEGINNING FALL 2019 ONWARDS

Name: _______________________
Student ID: ____________________
Email: __________________________
Advisor: __________________________

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPT 120*</td>
<td>MACM 101</td>
<td>CHEM 121</td>
<td>STAT 270</td>
</tr>
<tr>
<td>CMPT 125*</td>
<td>MACM 201</td>
<td>CHEM 122</td>
<td>(WQB) B-HUM</td>
</tr>
<tr>
<td>CMPT 127*</td>
<td>MATH 151 or 150</td>
<td>CHEM 281</td>
<td>(WQB) B-HUM</td>
</tr>
<tr>
<td>CMPT 225</td>
<td>MATH 152</td>
<td>CHEM 282 or 283</td>
<td>(WQB) B-SOC</td>
</tr>
<tr>
<td>CMPT 276</td>
<td>MATH 232 or 240</td>
<td>PHYS 101 &amp; 102, or 120 &amp; 121, or 125 &amp; 126, or 140 &amp; 141</td>
<td>(WQB) B-SOC</td>
</tr>
<tr>
<td>CMPT 295</td>
<td>BISC 101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBB 222</td>
<td>BISC 102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBB 231</td>
<td>BISC 202</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*CMPT 130 and 135 are an acceptable alternative to CMPT 120, 125 and 127

**2. UPPER DIVISION REQUIREMENTS:**

**REQUIRED COURSES:**
- Complete all
- CMPT 307
- CMPT 354
- CMPT 405
- CMPT 441
- MBB 308
- MBB 331
- MBB 342
- STAT 302

**ELECTIVE COURSES:**
- List One
  - Choose at least two
    - CMPT 305
    - CMPT 310
    - CMPT 340
    - CMPT 361
    - MACM 316
    - MBB 321

**ADDITIONAL COURSES:**
- List Two
  - Choose at least three
    - CMPT 413
    - CMPT 419
    - CMPT 454
    - MBB 438
    - MBB 441
    - MBB 461
    - MBB 462
    - MBB 463
    - MBB 464

**WQB REQUIREMENT:**
- CMPT 376W or MBB 309W

**Faculty of Science and Faculty of Applied Sciences Credential Requirements:**
(see reverse)

**3. Optional Co-operative Education**
- CMPT 426
- CMPT 427
- CMPT 428
- CMPT 429
- CMPT 430

120 units required: Current: _____ Required: _____
45 UD program units req’d: Current: _____ Required: _____

**THIS ACADEMIC PLAN IS A GUIDELINE ONLY. PLEASE REFER TO THE SFU CALENDAR FOR FULL DETAILS.**
1. LOWER DIVISION REQUIREMENTS (or equivalents):

WQB requirements: Students are required to complete 6 units of writing (W), 6 units of Breadth Science (B-Sci), 6 units of Breadth Social Science (B-Soc), 6 units of Breadth Humanities (B-Hum) and 6 units of Undesignated Breadth (UB).

Some WQB courses may fulfill two requirements. Some courses have multiple designations. For complete WQB regulations please refer to http://www.sfu.ca/ugcr/for_students.html.

2. UPPER DIVISION REQUIREMENTS:

Required courses - Students must complete all courses listed in the required column.

Elective courses - Students must complete at least 2 courses from List 1 and at least 3 courses from List 2.

Must have a minimum of 45 Upper Division units

WQB Requirement - Students must complete their upper division W with CMPT 376-3 or (W) MBB 309-4.

Faculty of Science Requirements: Students wishing to graduate with a BSc under the Faculty of Science should contact the MBB advisor directly.

Faculty of Applied Sciences Requirements: At least two thirds of the total Upper Division units in the program must have been completed at Simon Fraser University. Please refer to the current SFU calendar for full 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 receive a certificate of completion while students completing 4 or more co-op placements receive a co-op designation on their transcript and parchment. Note: You cannot graduate on a coop term. Please contact the Coop office for full details.

Questions? Contact an Applied Sciences Advisor at asadvise@sfu.ca, or view our advising schedule for drop-in and booked advising: http://www.sfu.ca/fas/current-student/advising.html.