Computing Science JOINT MAJOR [Bioinformatics] GRADUATION PLAN
For students approved as Majors beginning Fall 2006 onwards

Student Name: ___________________________ Student #: ___________________________ Date: ___________________________

Credential Designation: APSC BSc □ or SCIENCE BSc □ Semester Approved: ___________________________
Other Major/Minor: ___________________________ Email: ___________________________
Computing Advisor: ___________________________ MBB Advisor: ___________________________

1. LOWER DIVISION REQUIREMENTS (or equivalents):

- [Q] CMPT 126 or 125 □
- [Q] CMPT 150 □
- [Q] CMPT 225 □
- [Q] CMPT 275 □
- [Q] STAT 270 □
- [Q] MATH 151 or 150 □
- [Q] MATH 152 □
- [Q] MACM 101 □
- [Q] MATH 201 □
- [Q] MATH 240 □
- (B-Sci) BISC 101 □
- (B-Sci) BISC 102 □
- BISC 202 □
- (B-Sci) CHEM 121 □
- CHEM 122 □
- CHEM 281 □
- CHEM 282 □
- MBB 231 □
- MBB 222 □
- PHYS [see reverse]: ___________________________
- PHYS [see reverse]: ___________________________
- CHEM [see reverse]: ___________________________

(WQB) W ___________________________
(WQB) B-Soc ___________________________
(WQB) B-Hum ___________________________

2. UPPER DIVISION REQUIREMENTS:

<table>
<thead>
<tr>
<th>REQUIRED COURSES</th>
<th>ELECTIVE COURSES</th>
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<tbody>
<tr>
<td>CMPT 307 □</td>
<td>List 1: [at least 2 courses from the following]:</td>
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<tr>
<td>CMPT 320 □</td>
<td>CMPT 305 □</td>
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<tr>
<td>CMPT 354 □</td>
<td>CMPT 310 □</td>
</tr>
<tr>
<td>CMPT 441 □</td>
<td>CMPT 361 □</td>
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<td>MBB 308 □</td>
<td>MACM 316 □</td>
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<tr>
<td>MBB 331 □</td>
<td>MBB 321 □</td>
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<td>MBB 441 □</td>
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<tr>
<td>STAT 302 □</td>
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List 2: [at least 3 courses from the following]:
CMPT 405 □
CMPT 413 □
CMPT 419 □
CMPT 454 □
MBB 423 □
MBB 435 □
MBB 438 □
MBB 442 □

WQB Writing Requirement. [W] CMPT 376 □ or [W] MBB 309 □

Additional Course (required to bring total upper division units to 45): ___________________________

Optional Co-operative Education

<table>
<thead>
<tr>
<th>CMPT 426 □</th>
<th>CMPT 427 □</th>
<th>CMPT 428 □</th>
<th>CMPT 429 □</th>
<th>CMPT 430 □</th>
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<tr>
<td>Required:</td>
<td>Electives:</td>
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</tbody>
</table>

Other courses needed for graduation: ___________________________

Unit Hours Total Units needed: 120 - ( ) = Total Upper Division Units needed: 45 - ( ) =
Computing Science JOINT MAJOR [Bioinformatics] GRADUATION PLAN regulations

1. LOWER DIVISION REQUIREMENTS (or equivalents):

CMPT 128 may be used as a substitute for CMPT 126 or 125.

PHYSICS Requirement (6 units):
Students must complete two courses, with one course chosen from each list below:
- PHYS 101, 120, 125, 140.
- PHYS 102, 121, 126, 141.

CHEMISTRY. Students are strongly encouraged to take CHEM 286.

WQB requirements.
Students need to complete 3 units of Writing (W), 6 units of Breadth Social (B-Soc), and 6 units of Breadth Humanities (B-Hum).
Note: Both the Breadth Science (B-Sci) and Undesignated Breadth (UB) WQB graduation requirements will be met by completing the lower division requirements of the major.

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, however, 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/

2. UPPER DIVISION REQUIREMENTS:

Required courses (24 units). Students must complete all courses listed in the required column.

Elective courses (15 units). Students must complete at least 2 courses from List 1 and at least 3 courses from List 2.

WQB Requirement (3 or 4 units). Students must complete (W) CMPT 376-3 or (W) MBB 309-4.

Additional course. Students must complete 2 –3 additional units of upper division course work in any subject to bring their total upper division units to 45.

Faculty of Applied Science 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 current SFU calendar for details.

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

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. Joint major students can opt to take a combination of CMPT &/or MBB co-op courses up to a maximum of 5.