### 2nd Year

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CPSC 231</td>
<td>2. CPSC 233</td>
</tr>
<tr>
<td>3. BIOL 241 or CHEM 201 or 203 or GLGY 201 or PHYS 211 or 221 or 203 or CHEM 201 or 203 or PHYS 223</td>
<td>4. CPSC 251</td>
</tr>
<tr>
<td>5. MATH 249 or 265</td>
<td>6. BIOL 243 or CHEM 201 or 203 or GLGY 202 or PHYS 223</td>
</tr>
</tbody>
</table>

May be taken either semester:

8. MATH 211

9. PHIL 279

10. Non-Science Option (Breadth Requirement)

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1. To complete #7 in 3rd Year, take one of the following pre-requisite pairings: BIOL 241 and 243 or CHEM 201 and 203 or GLGY 201 and 202 or PHYS 211 or 221 and 223

2. MATH 249 is open only to students without MATH 31

3. A non-science option is any course from faculties other than the Faculty of Science, excluding courses in Table 1.

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### 3rd Year

May be taken either semester:

1. CPSC 413

2. CPSC 449

3. CPSC 457

4. CPSC 471

5. CPSC 491

6. Course from the Field of Computer Science at the 300 level or above


8. Option NOT in the Field of Computer Science (Non-Major Field Requirement)

9. Option NOT in the Field of Computer Science (Non-Major Field Requirement)

10. Non-Science Option (Breadth Requirement)

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1. MATH 391 may be used in lieu of CPSC 471 or CPSC 491. If MATH 391 is taken to fulfill #4 or #5, replace #7 with a Course from the Field of Computer Science at the 400 level or above

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### 4th Year

May be taken either semester:

1. Course from the Field of Computer Science at the 400 level or above

2. CPSC 453, 461, 531, 535, 559, 571, 572, 583, 599 or 601

3. CPSC 531, 535, 559, 571, 572, 583, 599 or 601

4. CPSC 531, 535, 559, 571, 572, 583, 599 or 601

5. Course from the Field of Computer Science at the 500 level or above

6. Option NOT in the Field of Computer Science (Non-Major Field Requirement)

7. Option NOT in the Field of Computer Science (Non-Major Field Requirement)

8. Option NOT in the Field of Computer Science (Non-Major Field Requirement)

9. Open Option

10. Open Option

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1. Students interested in using Computer Science 599 or 601 should contact the Undergraduate Science Centre to determine which topics, if any, are being offered in a given year that may be used to fulfill the requirements of this concentration.
Any course offered by any Faculty