### BSc in Computer Science with a Concentration in Visualization and Analytics - Recommended Course Sequence (Fall 2020, Fall 2021 Calendar Regulations)

#### 2nd YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
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<tbody>
<tr>
<td>1. CPSC 231</td>
<td>2. CPSC 233</td>
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<tr>
<td>3. CPSC 251</td>
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</tbody>
</table>

May be taken either semester:

4. MATH 211
5. MATH 249\(^1\) or 265
6. PHIL 279
7. Non-Science Option (Breadth Requirement)\(^2\)
8. Non-Science Option (Breadth Requirement)\(^2\)
9. Option NOT in the Field of Computer Science (Non-Major Field Requirement)
10. Option NOT in the Field of Computer Science (Non-Major Field Requirement)

\(^1\) MATH 249 is open only to students without MATH 31
\(^2\) A non-science option is any course from faculties other than the Faculty of Science, excluding courses in Table 1

<table>
<thead>
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<th>FALL</th>
<th>WINTER</th>
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<tbody>
<tr>
<td>1. CPSC 331</td>
<td>2. SENG 300</td>
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<tr>
<td>3. CPSC 351</td>
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</tbody>
</table>

May be taken either semester:

4. CPSC 355
5. PHIL 314
6. STAT 321 (Fall) or 327 (Winter)
7. Option from the Field of Computer Science at the 300 level or above
8. Option from the Field of Computer Science at the 300 level or above
9. Option NOT in the Field of Computer Science (Non-Major Field Requirement)
10. Non-Science Option (Breadth Requirement)

#### 3rd YEAR

May be taken either semester:

1. CPSC 411
2. CPSC 449
3. CPSC 457
4. CPSC 453, 481, 502.03, 502.07, 503.03, 503.07, 599.88, or 599.89
5. Course from the Field of Computer Science at the 300 level or above
6. Course from the Field of Computer Science at the 400 level or above
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. Option NOT in the Field of Computer Science (Non-Major Field Requirement)
10. Non-Science Option (Breadth Requirement)

#### 4th YEAR

May be taken either semester:

1. CPSC 563
2. CPSC 599.87
3. CPSC 471 or 599.44
4. CPSC 453, 481, 502.03, 502.07, 503.03, 503.07, 599.88, or 599.89
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\(^1\)
10. Open Option\(^1\)

\(^1\) Any course offered by any Faculty