## DEGREE CHECKLIST
### BACHELOR OF SCIENCE (BSc) COMPUTER SCIENCE
#### Specialized Honours

<table>
<thead>
<tr>
<th>NAME</th>
<th>STUDENT #</th>
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### COURSES

<table>
<thead>
<tr>
<th>First Year Courses</th>
<th>Credits Earned</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE/EECS 1001 1.00</td>
<td>Research Directions in Computing</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 1012 3.00</td>
<td>Introduction to Computer Science</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 1015 3.00</td>
<td>Introduction to Computer Science and Programming</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 1019 3.00</td>
<td>Discrete Mathematics for Computer Science</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 1022 3.00</td>
<td>Programming for Mobile Computing</td>
<td></td>
</tr>
<tr>
<td>SC/MATH 1025 3.00</td>
<td>Applied Linear Algebra</td>
<td></td>
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<tr>
<td>SC/MATH 1300 3.00</td>
<td>Differential Calculus with Applications</td>
<td></td>
</tr>
<tr>
<td>SC/MATH 1310 3.00</td>
<td>Integral Calculus with Applications</td>
<td></td>
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</tbody>
</table>

### Foundational science:
Six credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00, SC/CHEM 1000 3.00, SC/CHEM 1001 3.00, SC/PHYS 1011 3.00, SC/PHYS 1012 3.00, SC/PHYS 1010 6.00, SC/PHYS 1411 3.00, SC/PHYS 1412 3.00, SC/PHYS 1410 6.00, SC/PHYS 1421 3.00, SC/PHYS 1422 3.00, SC/PHYS 1420 6.00

### General Education and/or Science Breadth
See sections “A” and “C” on page 2

### Second Year Courses

<table>
<thead>
<tr>
<th>Credits Earned</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC/MATH 1090 3.00</td>
<td>Introduction to Logic for Computer Science</td>
</tr>
<tr>
<td>SC/MATH 2030 3.00</td>
<td>Elementary Probability</td>
</tr>
<tr>
<td>LE/EECS 2001 3.00</td>
<td>Introduction to Theory of Computation</td>
</tr>
<tr>
<td>LE/EECS 2030 3.00</td>
<td>Advanced Object Oriented Programming</td>
</tr>
<tr>
<td>LE/EECS 2011 3.00</td>
<td>Fundamentals of Data Structures</td>
</tr>
<tr>
<td>LE/EECS 2021 4.00</td>
<td>Computer Organisation</td>
</tr>
<tr>
<td>LE/EECS 2031 3.00</td>
<td>Software Tools</td>
</tr>
</tbody>
</table>

### General Education and/or Science Breadth
See sections “A” and “C” on page 2

### Notes

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: http://calendars.registrar.yorku.ca/
**COURSES** | **CREDITS EARNED** | **GRADE**
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**Third Year Courses**

- ☐ LE/EECS 3000 3.00 (Professional Practice in Computing)
- ☐ LE/EECS 3101 3.00 (Design and Analysis of Algorithms)
- ☐ LE/EECS 3311 3.00 (Software Design)

  At least 3 credits from:
  - LE/EECS 3215 4.00, LE/EECS 3221 3.00

  At least 3 credits from:
  - LE/EECS 3401 3.00, LE/EECS 3421 3.00, LE/EECS 3461 3.00

  At least 3 additional credits from computer science courses at the 3000-level

  At least 6 additional credits in computer science courses at the 3000-level or above

**Fourth Year Courses**

- ☐ At least 9 additional credits in computer science courses at the 4000-level

  At least 3 additional credits:
  - LE/EECS 4101 3.00 or LE/EECS 4111 3.00 or LE/EECS 4115 3.00 for an overall total of at least 62 credits from computer science courses.

  Additional elective credits including:
  - 12 credits outside of EECS, STATS, MATH, and ITEC
  - 6 credits at the 3000-level or higher
  - For a minimum of 120 total credits

**A. General Education Requirement:**
- non-science requirement: 12 credits from the approved list of courses and subject areas in your Academic Calendar;
- mathematics: satisfied within the core requirements;
- computer science: satisfied by the major requirements;
- science: satisfied by the BIOL, CHEM, or PHYS labs as stated on your degree checklist.

**B. Major Requirements:**
- As stated above.

**C. Science Breadth:**
- In addition to the courses specified in the checklist, 3 credits at any level are required in approved non-EECS science disciplines.

**D. Upper Level Requirement:**
- In addition to the upper year courses specified in the checklist, 6 credits at the 3000-level or higher are required.

**E. Additional elective credits, as required, for an overall total of 120 credits.**

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**TOTAL CGPA** (minimum cumulative GPA of 5.00 (C+) required to graduate with an Honours BSc degree)

**EECS GPA Prerequisite:**
- Most 2000-, 3000-, and 4000-level EECS courses require the following general (that is, common) prerequisites, in addition to other course-specific prerequisites: a cumulative grade point average of 4.50 or better over all completed major EECS courses. Note: "Major" courses are all EECS courses with second digit other than 5 and include LE/EECS 1028 3.00 (cross-listed to SC/MATH 1028 3.00) and LE/EECS 1019 3.00 (cross-listed to SC/MATH 1019 3.00).

Participation in the Co-op or internship option is highly recommended for students, but is not a degree requirement.

**Notes**