<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS EARNED</th>
<th>GRADE</th>
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</thead>
<tbody>
<tr>
<td>LE/EECS 1001 1.00 Research Directions in Computing</td>
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<tr>
<td>LE/EECS 1012 3.00 Introduction to Computer Science</td>
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<tr>
<td>LE/EECS 1019 3.00 Discrete Mathematics for Computer Science</td>
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<tr>
<td>LE/EECS 1022 3.00 Programming for Mobile Computing</td>
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<tr>
<td>SC/MATH 1025 3.00 Applied Linear Algebra</td>
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<tr>
<td>SC/MATH 1300 3.00 Differential Calculus with Applications</td>
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<tr>
<td>SC/MATH 1310 3.00 Integral Calculus with Applications</td>
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<tr>
<td>SC/BIOL 1000 3.00, SC/BIOL 1001 3.00 (or SC/BIOL 1010 6.00), SC/CHEM 1000 3.00, SC/CHEM 1001 3.00, SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or SC/PHYS 1010 6.00</td>
<td>6 credits</td>
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<tr>
<td>LE/EECS 2001 3.00 Introduction to the Theory of Computation</td>
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<tr>
<td>LE/EECS 2030 3.00 Advanced Object Oriented Programming</td>
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<tr>
<td>LE/EECS 2011 3.00 Fundamentals of Data Structures</td>
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<tr>
<td>LE/EECS 2021 4.00 Computer Organization</td>
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<tr>
<td>LE/EECS 2031 3.00 Software Tools</td>
<td></td>
<td></td>
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<tr>
<td>LE/EECS 2311 3.00 Software Development Project</td>
<td></td>
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<tr>
<td>Notes</td>
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</tbody>
</table>

**Foundational science:**

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: http://calendars.registrar.yorku.ca/

**Non-Science/Electives**

- SC/MATH 1090 3.00 Introduction to Logic for Computer Science
- SC/MATH 2030 3.00 Elementary Probability
- LE/EECS 2001 3.00 Introduction to the Theory of Computation
- LE/EECS 2030 3.00 Advanced Object Oriented Programming
- LE/EECS 2011 3.00 Fundamentals of Data Structures
- LE/EECS 2021 4.00 Computer Organization
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- LE/EECS 2031 3.00 Software Tools
- LE/EECS 2311 3.00 Software Development Project

**Notes**
### Third Year Courses

- LE/EECS 3000 3.00: Professional Practice in Computing
- LE/EECS 3101 3.00: Design and Analysis of Algorithms
- LE/EECS 3111 3.00: Software Design
- LE/EECS 3142 3.00: System Specification and Refinement
- LE/EECS 3421 3.00: Introduction to Database Systems

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

### Non-Science/Electives

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### Fourth Year Courses

- LE/EECS 4090 6.00: Interactive Systems Project
- LE/EECS 4312 3.00: Software Engineering Requirements
- LE/EECS 4313 3.00: Software Engineering Testing

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 65 credits from computer science courses;

### Additional elective credits, as required

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**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 on your degree checklist.

**C. Science Breadth:**
- 24 credits in science disciplines outside the major, of which at least 3 credits must be at the 2000 level or above. 21 of these 24 credits, including 3 credits at the 2000 level, are satisfied by the above requirements.

**D. Upper Level Requirement:**
- A minimum of 42 credits at the 3000 level or higher. This includes the EECS courses at the 3000 and 4000-level listed above.

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

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

General 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