### DEGREE CHECKLIST
**2021-2022**

**NAME**

**STUDENT #**

---

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

---

<table>
<thead>
<tr>
<th>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 or LE/EECS 1015 3.00</td>
<td>Introduction to Computer Science or 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>
</tr>
<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>
</tr>
</tbody>
</table>

**First Year Courses**

**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/CHEM 1011 3.00, SC/CHEM 1012 3.00, SC/PHYS 1010 6.00, SC/PHYS 1411 3.00, SC/PHYS 1412 3.00, SC/PHYS 1420 6.00, SC/PHYS 1421 3.00, SC/PHYS 1422 3.00

**General Education and/or Science Breadth**
- See sections "A" and "C" on page 2

---

**Second Year Courses**

- 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 2031 3.00 | Computer Organisation |
- LE/EECS 2031 3.00 | Software Tools |
- LE/EECS 2311 3.00 | Software Development Project |

**General Education and/or Science Breadth**
- See sections "A" and "C" on page 2

---

**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 3311 3.00**  Software Design
- **LE/EECS 3342 3.00**  System Specification and Refinement
- **LE/EECS 3421 3.00**  Introduction to Database Systems
- **LE/EECS 3461 3.00**  User Interfaces

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

### General Education and/or Science Breadth and/or Electives

See sections "A", "C", and "D" below

### 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**

### Notes

- Additional elective credits including
  - 12 credits outside of EECS, STATA, 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 on your degree checklist.

### 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.

### 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