### First Year Courses

<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 or LE/EECS 1015 3.00 Net-Centric Introduction to Computing or Introduction to Computer Science and Programming</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 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>Practicum: See section &quot;C&quot; on page 2</td>
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**Summer term**
- LE/EECS 2021 4.00 Computer Organization

**Second Year Courses**
- LE/EECS 2001 3.00 Introduction to the Theory of Computation
- LE/EECS 2011 3.00 Fundamentals of Data Structures
- SC/MATH 1090 3.00 Introduction to Logic for Computer Science
- SC/MATH 2030 3.00 Elementary Probability

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

**Practicum:**
- See section "C" on page 2

**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 1010 3.00, SC/Phys 1011 3.00, SC/Phys 1410 3.00, 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, SC/Phys 1420 6.00

### Notes

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

<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS</th>
<th>GRADE</th>
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</thead>
<tbody>
<tr>
<td>LE/EECS 3000 3.00</td>
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<tr>
<td>Professional Practice in Computing</td>
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<tr>
<td>LE/EECS 3101 3.00</td>
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<tr>
<td>Design and Analysis of Algorithms</td>
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<tr>
<td>LE/EECS 3311 3.00</td>
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<tr>
<td>Software Design</td>
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At least 3 credits from
LE/EECS 3215 4.00, LE/EECS 3221 3.00

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

**Practicum:**
See section "C" below

**General Education and/or Science Breadth**
See sections "A" and "D" below

### Fourth Year Courses

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<tr>
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**Practicum:**
See section "C" below

**Additional elective credits including**

- 12 credits outside of EECS, STATS, MATH, and ITEC
- 9 credits at the 3000-level or higher

Completion of any remaining General Education and/or Science Breadth
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. Practicum:**

At least 12 credits from the following list of courses:

- LE/EECS 1910 3.00 Industry Practicum
- LE/EECS 1911 3.00 Industry Practicum
- LE/EECS 2910 3.00 Industry Practicum
- LE/EECS 2911 3.00 Industry Practicum
- LE/EECS 3910 3.00 Industry Practicum
- LE/EECS 3911 3.00 Industry Practicum
- LE/EECS 4910 3.00 Industry Practicum
- LE/EECS 4911 3.00 Industry Practicum

At least 6 of these credits must be in the 3000 or 4000 level.

**D. Science Breadth:**

In addition to the courses specified in the checklist, 6 credits at any level are required in approved non-EECS science disciplines.

**E. Upper Level Requirement:**

In addition to the upper year courses specified in the checklist, 9 credits at the 3000-level or higher are required.

**F. 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 a cumulative GPA of 4.5 or better over all EECS major courses in addition to other course-specific prerequisites. 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).

**Notes**