<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>Net-Centric Introduction to Computing or Introduction to Computer Science and Programming</td>
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<tr>
<td>LE/EECS 1019 3.00</td>
<td>Discrete Mathematics for Computer Science</td>
<td></td>
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<tr>
<td>LE/EECS 1022 3.00</td>
<td>Programming for Mobile Computing</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>
<tr>
<td>LE/EECS 2021 4.00</td>
<td>Computer Organization</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 2030 3.00</td>
<td>Advanced Object-Oriented Programming</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 2031 3.00</td>
<td>Software Tools</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 2001 3.00</td>
<td>Introduction to the Theory of Computation</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 2011 3.00</td>
<td>Fundamentals of Data Structures</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 3461 3.00</td>
<td>User Interfaces</td>
<td></td>
</tr>
<tr>
<td>SC/MATH 1090 3.00</td>
<td>Introduction to Logic for Computer Science</td>
<td></td>
</tr>
<tr>
<td>SC/MATH 2030 3.00</td>
<td>Elementary Probability</td>
<td></td>
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**Notes**

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

**BACHELOR OF SCIENCE (BSc) COMPUTER SCIENCE**

**Honours Major (Industry Partnership Stream)**

**First Year Courses**

- LE/EECS 1001 1.00
- LE/EECS 1012 3.00 or LE/EECS 1015 3.00
- LE/EECS 1019 3.00
- LE/EECS 1022 3.00
- SC/MATH 1300 3.00
- SC/MATH 1310 3.00
- LE/EECS 2021 4.00
- LE/EECS 2030 3.00
- LE/EECS 2031 3.00

**Summer term**

- LE/EECS 2021 4.00
- Advanced Object-Oriented Programming
- Software Tools

**Second Year Courses**

- LE/EECS 2001 3.00
- LE/EECS 2011 3.00
- LE/EECS 3461 3.00
- SC/MATH 1090 3.00
- SC/MATH 2030 3.00

**General Education and/or Science Breadth**

- SC/BIOL 1000 3.00
- SC/BIOL 1001 3.00
- SC/CH1M 1000 3.00
- SC/CH1M 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 1421 3.00
- SC/PHYS 1422 3.00
- SC/PHYS 1420 6.00

**Foundational science:** six credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00, SC/CH1M 1000 3.00, SC/CH1M 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 1421 3.00, SC/PHYS 1422 3.00, SC/PHYS 1420 6.00
### Third Year Courses

<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE/EECS 3000 3.00</td>
<td>Professional Practice in Computing</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 3101 3.00</td>
<td>Design and Analysis of Algorithms</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 3311 3.00</td>
<td>Software Design</td>
<td></td>
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</tbody>
</table>

- **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

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

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

### Fourth Year Courses

- **At least 12 credits**
  - from computer science courses at the 4000 level (courses with second digit 9 cannot be used to fulfill this requirement).

**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

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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. Practicum:**
- At least 12 credits from the following list of courses:
  - 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
  - LE/EECS 4912 3.00 Industry Practicum
  - LE/EECS 4913 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 (SC/**** + HH/PSYC + HH/KINE)

**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**

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

**EECS GPA Prerequisites:**
- 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**