<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS EARNED</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE/EECS 1001 1.00</td>
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</table>
| LE/EECS 1012 3.00  
or  
LE/EECS 1015 3.00 |                |       |
| LE/EECS 1019 3.00 |                |       |
| LE/EECS 1022 3.00 |                |       |
| SC/MATH 1025 3.00 |                |       |
| SC/MATH 1300 3.00 |                |       |
| SC/MATH 1310 3.00 |                |       |
| SC/MATH 1090 3.00 |                |       |
| SC/MATH 2030 3.00 |                |       |
| LE/EECS 2001 3.00 |                |       |
| LE/EECS 2030 3.00 |                |       |
| LE/EECS 2011 3.00 |                |       |
| LE/EECS 2021 4.00 |                |       |
| LE/EECS 2031 3.00 |                |       |

**First Year Courses**

- Research Directions in Computing
- Introduction to Computer Science
- Discrete Mathematics for Computer Science
- Programming for Mobile Computing
- Applied Linear Algebra
- Differential Calculus with Applications
- Integral Calculus with Applications
- Introduction to Logic for Computer Science
- Elementary Probability
- Introduction to the Theory of Computation
- Advanced Object Oriented Programming
- Fundamentals of Data Structures
- Computer Organisation
- Software Tools

**Foundational science:**

- six credits from SC/BIOI 1000 3.00, SC/BIOI 1001 3.00, SC/CHM 1000 3.00, SC/CHM 1001 3.00, SC/PYS 1011 3.00, SC/PYS 1012 3.00, SC/PYS 1010 6.00, SC/PYS 1411 3.00, SC/PYS 1412 3.00, SC/PYS 1421 3.00, SC/PYS 1422 3.00, SC/PYS 1420 6.00

**Second Year Courses**

- Introduction to Logic for Computer Science
- Elementary Probability
- Introduction to the Theory of Computation
- Advanced Object Oriented Programming
- Fundamentals of Data Structures
- Computer Organisation
- Software Tools

**Notes**

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

#### 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 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

**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**