<table>
<thead>
<tr>
<th>PREREQUISITES/COREQUISITES</th>
<th>COURSES</th>
<th>CREDITS</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year Courses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>◯ LE/EECS 1001 1.00</td>
<td>Research Directions in Computing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>◯ LE/EECS 1012 3.00</td>
<td>Net-centric Introduction to Computing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>◯ LE/EECS 1019 3.00</td>
<td>Discrete Mathematics for Computer Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>◯ LE/EECS 1022 3.00</td>
<td>Programming for Mobile Computing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>◯ SC/MATH 1025 3.00</td>
<td>Applied Linear Algebra</td>
<td></td>
<td></td>
</tr>
<tr>
<td>◯ SC/MATH 1300 3.00</td>
<td>Differential Calculus with Applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>◯ SC/MATH 1310 3.00</td>
<td>Integral Calculus with Applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>foundational science: 6 credits</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Non-Science/Electives |         |         |       |
|                       |         |         |       |

| **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 2011 3.00     | Fundamentals of Data Structures |         |       |
| ◯ LE/EECS 2021 4.00     | Computer Organization |         |       |
| ◯ LE/EECS 2030 3.00     | Advanced Object Oriented Programming |         |       |
| ◯ LE/EECS 2031 3.00     | Software Tools |         |       |
| ◯ LE/EECS 2311 3.00     | Software Development Project |         |       |

| General Education/Electives |         |         |       |
|                           |         |         |       |

<p>| Notes |         |         |       |</p>
<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Third Year Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 3000 3.00 Professional Practice in Computing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 3101 3.00 Design and Analysis of Algorithms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 3311 3.00 Software Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 3342 3.00 System Specification and Refinement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 3421 3.00 Introduction to Database Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 3461 3.00 User Interfaces</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>At least 3 credits from</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LE/EECS 3215 4.00, LE/EECS 3221 3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Non-Science/Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Year Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 4090 6.00 Interactive Systems Project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 4312 3.00 Software Engineering Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ LE/EECS 4313 3.00 Software Engineering Testing</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>At least 3 additional credits:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LE/EECS 4101 3.00 or LE/EECS 4111 3.00 or LE/EECS 4115 3.00 for an</td>
<td></td>
<td></td>
</tr>
<tr>
<td>overall total of at least 65 credits from computer science courses;</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Additional elective credits, as required</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>for a total of 120 credits of which at least 30 credits must be neither</td>
<td></td>
<td></td>
</tr>
<tr>
<td>computer science nor mathematics. 18 of these 30 credits are satisfied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>by the general education requirement.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A. General Education Requirement:

- **non-science requirement:** 12 credits; **mathematics:** satisfied within the core requirements; **computer science:** satisfied by the major requirements;
- **foundational science:** six credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00 (or SC/BIOL 1010 6.00), SC/CHM 1000 3.00, SC/CHM 1001 3.00, SC/PHYS 1410 6.00 or SC/PHYS 1420 6.00 or SC/PHYS 1010 6.00.

B. Major Requirements (as stated on your degree checklist)

C. Science breadth:

- 24 credits in science disciplines outside the major, of which three 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.

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

TOTAL CREDITS & 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.

August 2019