## DEGREE CHECKLIST
2024-2025

### BACHELOR OF ARTS (BA) COMPUTER SECURITY
Specialized Honours

<table>
<thead>
<tr>
<th>NAME</th>
<th>STUDENT #</th>
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Students are strongly advised to refer to online Academic Calendars before enrolling into courses:
https://calendars.students.yorku.ca/academic-calendar/#/programs

<table>
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<tr>
<th>COURSES</th>
<th>CREDITS EARNED</th>
<th>GRADE</th>
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### First Year Courses
- ☐ LE/EECS 1001 1.00  
  Research Directions in Computing
- ☐ LE/EECS 1012 3.00  
  Net-Centric Introduction to Computing
- ☐ LE/EECS 1019 3.00*  
  Discrete Mathematics for Computer Science
  Prerequisite: LE/EECS 1012 3.00
- ☐ LE/EECS 1022 3.00  
  Introduction to Object Oriented Programming
- ☐ SC/MATH 1025 3.00  
  Applied Linear Algebra
- ☐ SC/MATH 1131 3.00  
  Introduction to Statistics I
- ☐ SC/MATH 1300 3.00  
  Differential Calculus with Applications
  Prerequisite: SC/MATH 1300 3.00 or SC/MATH 1013 3.00
- ☐ SC/MATH 1310 3.00  
  Integral Calculus with Applications

### General Education/Electives

### Second Year Courses
- ☐ LE/EECS 2001 3.00  
  Introduction to the Theory of Computation
- ☐ LE/EECS 2030 3.00  
  Advanced Object Oriented Programming
- ☐ LE/EECS 2101 3.00  
  Fundamentals of Data Structures
- ☐ LE/EECS 2021 4.00  
  Computer Organization
- ☐ LE/EECS 2031 3.00  
  Software Tools
- ☐ LE/EECS 3482 3.00  
  Introduction to Computer Security
- ☐ SC/MATH 1090 3.00  
  Introduction to Logic for Computer Science
- ☐ SC/MATH 2030 3.00  
  Elementary Probability
- ☐ AP/PHIL 2075 3.00 or SC/STS 3500 3.00  
  Introduction to Applied Ethics OR The Global Information Society

### General Education/Electives

### Notes
### Third Year Courses

<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS EARNED</th>
<th>GRADE</th>
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<tbody>
<tr>
<td>LE/EECS 3000 3.00</td>
<td>Professional Practice in Computing</td>
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<tr>
<td>LE/EECS 3101 3.00</td>
<td>Design and Analysis of Algorithms</td>
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<tr>
<td>LE/EECS 3213 3.00</td>
<td>Communications Networks</td>
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<tr>
<td>LE/EECS 3214 3.00</td>
<td>Computer Network Protocols and Applications</td>
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<tr>
<td>LE/EECS 3221 3.00</td>
<td>Operating System Fundamentals</td>
<td></td>
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<tr>
<td>LE/EECS 3421 3.00 OR AP/ITEC 3220 3.00</td>
<td>Introduction to Database Systems OR Using and Designing Database Systems</td>
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<tr>
<td>LE/EECS 3481 3.00</td>
<td>Applied Cryptography</td>
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**General Education/Electives**

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### Fourth Year Courses

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<tbody>
<tr>
<td>LE/EECS 3311 3.00</td>
<td>Software Design</td>
<td></td>
</tr>
<tr>
<td>LE/EECS 4413 3.00</td>
<td>Building E-Commerce Systems</td>
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<tr>
<td>LE/EECS 4480 3.00</td>
<td>Computer Security Project</td>
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<tr>
<td>LE/EECS 4481 4.00</td>
<td>Computer Security Laboratory</td>
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<tr>
<td>LE/EECS 4482 3.00</td>
<td>Network Security and Forensics</td>
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<tr>
<td>LE/EECS 4484 3.00</td>
<td>Malware Analysis</td>
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- Completion of remaining - 18.00 credits outside the major (EECS), of which 6.00 credits must be outside MATH and ITEC - at least 2.00 credits at the 4000-level

- Additional elective credits, as required, for a total of 120 credits

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**General Education Requirement:**

6.00 credits in each of Humanities (HUMA), Social Science (SOSC), and Natural Science (NATS), plus an additional 3.00 credits in Humanities (HUMA), Social Science (SOSC), or Natural Science (NATS), for a minimum total of 21.00 credits. AP/SOSC 2312 9.00 or AP/SOSC 2340 9.00 are highly recommended.

**Upper Level Requirement:**

A minimum of 36 credits at the 3000 level or higher and must include at least 18 credits at the 4000 level. This includes the EECS and STS courses at the 3000 and 4000-level listed above. Additional elective credits, as required, for a minimum total of 120 credits.

**TOTAL CGPA** (minimum cumulative GPA of 5.00 (C+) required to graduate with an Honours 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. "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 Co-op is highly recommended, but is not a degree requirement.

### Notes

- SC/MATH 1013 3.00 may be taken in lieu of SC/MATH 1300 3.00.
- SC/MATH 1014 3.00 may be taken in lieu of SC/MATH 1310 3.00.
- SC/MATH 1021 3.00 or SC/MATH 2221 3.00 may be taken in lieu of SC/MATH 1025 3.00.