



**DEGREE CHECKLIST  
2018-2019**

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

**NAME**

**STUDENT #**

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

PREREQUISITES/COREQUISITES	COURSES		CREDITS EARNED	GRADE
<b>First Year Courses</b>				
	<input type="checkbox"/>	LE/EECS 1001 1.00	Research Directions in Computing	
	<input type="checkbox"/>	LE/EECS 1012 3.00	Net-Centric Introduction to Computing	
	<input type="checkbox"/>	LE/EECS 1019 3.00	Discrete Mathematics for Computer Science	
	<input type="checkbox"/>	LE/EECS 1022 3.00	Programming for Mobile Computing	
	<input type="checkbox"/>	SC/MATH 1300 3.00	Differential Calculus with Applications	
	<input type="checkbox"/>	SC/MATH 1310 3.00	Integral Calculus with Applications	
<i>foundational science: 6 additional credits</i>	<input type="checkbox"/>			
	<input type="checkbox"/>			
<b>Non-Science/Electives</b>	<input type="checkbox"/>			
	<input type="checkbox"/>			

NOTE: A linear algebra course such as SC/MATH 1025 3.00 is highly recommended.

<b>Second Year Courses</b>				
	<input type="checkbox"/>	SC/MATH 1090 3.00	Introduction to Logic for Computer Science	
	<input type="checkbox"/>	SC/MATH 2030 3.00	Elementary Probability	
	<input type="checkbox"/>	LE/EECS 2001 3.00	Introduction to the Theory of Computation	
	<input type="checkbox"/>	LE/EECS 2011 3.00	Fundamentals of Data Structures	
	<input type="checkbox"/>	LE/EECS 2021 4.00	Computer Organization	
	<input type="checkbox"/>	LE/EECS 2030 3.00	Advanced Object Oriented Programming	
	<input type="checkbox"/>	LE/EECS 2031 3.00	Software Tools	
<b>Non-Science/Electives</b>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			

### Third Year Courses

	<input type="checkbox"/>	LE/EECS 3000 3.00	Professional Practice in Computing		
	<input type="checkbox"/>	LE/EECS 3101 3.00	Design and Analysis of Algorithms		
	<input type="checkbox"/>	LE/EECS 3311 3.00	Software Design		
<b>At least 3 credits from</b> LE/EECS 3215 4.00, LE/EECS 3221 3.00	<input type="checkbox"/>				
<b>At least 3 credits from</b> LE/EECS 3401 3.00, LE/EECS 3421 3.00, LE/EECS 3461 3.00	<input type="checkbox"/>				
<b>Non-Science/Electives</b>	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				

### Fourth Year Courses

<b>At least 12 credits</b> from computer science courses at the 4000 level, for an overall total of <i>at least 53 credits</i> from computer science courses.	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
<b>Additional elective credits, as required</b> for a total of 120 credits of which at least 30 credits must be outside computer science, mathematics, statistics and information technology. 18 of these 30 credits are satisfied by the general education requirement.	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				

**A. General Education Requirement:**

*non-science requirement:* 12 credits; *mathematics:* satisfied within the core requirements; *computer science:* satisfied by the major requirements;  
*foundational science* : 6 credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00 (or SC/BIOL 1010 6.00), SC/CHEM 1000 3.00, SC/CHEM 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 3 credits must be at the 2000 level or above. 18 of these 24 credits, including 3 credits at the 2000 level  
are satisfied by the general education requirement.

(Not required if other major or minor is another science discipline.)

**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.