	DEGREE CHECKLIST 2020-2021	**BACHELOR OF SCIENCE (BSc) COMPUTER SCIENCE** **Specialized Honours (Software Development Stream)**
	NAME	
	STUDENT #	

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

		COURSES		CREDITS EARNED	GRADE
First Year Courses					
	☐	LE/EECS 1001 1.00	Research Directions in Computing		
	☐	LE/EECS 1012 3.00 or LE/EECS 1015 3.00	Introduction to Computer Science or Introduction to Computer Science and Programming		
	☐	LE/EECS 1019 3.00	Discrete Mathematics for Computer Science		
	☐	LE/EECS 1022 3.00	Programming for Mobile Computing		
	☐	SC/MATH 1025 3.00	Applied Linear Algebra		
	☐	SC/MATH 1300 3.00	Differential Calculus with Applications		
	☐	SC/MATH 1310 3.00	Integral Calculus with Applications		
Foundational science: six credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00, SC/CHEM 1000 3.00, SC/CHEM 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 1410 6.00, SC/PHYS 1421 3.00, SC/PHYS 1422 3.00, SC/PHYS 1420 6.00	☐				
	☐				
General Education and/or Science Breadth See sections "A" and "C" on page 2	☐				
	☐				
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 2030 3.00	Advanced Object Oriented Programming		
	☐	LE/EECS 2011 3.00	Fundamentals of Data Structures		
	☐	LE/EECS 2021 4.00	Computer Organization		
	☐	LE/EECS 2031 3.00	Software Tools		
	☐	LE/EECS 2311 3.00	Software Development Project		
General Education and/or Science Breadth See sections "A" and "C" on page 2	☐				
	☐				

Notes

	COURSES			CREDITS EARNED	GRADE
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		
	☐	LE/EECS 3342 3.00	System Specification and Refinement		
	☐	LE/EECS 3421 3.00	Introduction to Database Systems		
	☐	LE/EECS 3461 3.00	User Interfaces		
At least 3 credits from: LE/EECS 3215 4.00, LE/EECS 3221 3.00	☐				
General Education and/or Science Breadth and/or Electives See sections "A", "C", and "D" below	☐				
	☐				
	☐				
Fourth Year Courses					
	☐	LE/EECS 4090 6.00	Interactive Systems Project		
	☐	LE/EECS 4312 3.00	Software Engineering Requirements		
	☐	LE/EECS 4313 3.00	Software Engineering Testing		
At least 3 additional credits: LE/EECS 4101 3.00 or LE/EECS 4111 3.00 or LE/EECS 4115 3.00 for an overall total of at least 65 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 **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. Science Breadth:
In addition to the courses specified in the checklist, 3 credits at any level are required in approved non-EECS science disciplines (SC/**** + HH/PSYC + HH/KINE)

D. Upper Level Requirement:
In addition to the upper year courses specified in the checklist, 6 credits at the 3000-level or higher are required.

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

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 tha 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