LASSONDE SCHOOL OF ENGINEERING | YORK UNIVERSITY	**DEGREE CHECKLIST 2022-2023**	**BACHELOR OF SCIENCE (BSc) COMPUTER SECURITY Specialized Honours**			
	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	Net-Centric Introduction to Computing		
	☐	LE/EECS 1019 3.00*	Discrete Mathematics for Computer Science		
	☐	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		
	☐	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	☐				
	☐				
* SC/MATH 1190 3.00 must be taken (prerequisite of LE/EECS 1019 3.00) if the student has not passed 12U Advanced Functions (MHF4U).					
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.					
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		
Non-Science/Electives	☐				
	☐				

	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 3213 3.00	Communications Networks		
	☐	LE/EECS 3214 3.00	Computer Network Protocols and Applications		
	☐	LE/EECS 3221 3.00	Operating System Fundamentals		
	☐	LE/EECS 3421 3.00	Introduction to Database Systems		
	☐	LE/EECS 3481 3.00	Applied Cryptography		
Non-Science/Electives	☐				
	☐				
	☐				
Fourth Year Courses					
	☐	LE/EECS 3311 3.00	Software Design		
	☐	LE/EECS 4413 3.00	Building E-Commerce Systems		
	☐	LE/EECS 4480 3.00	Computer Security Project		
	☐	LE/EECS 4481 4.00	Computer Security Laboratory		
	☐	LE/EECS 4482 3.00	Network Security and Forensics		
	☐	LE/EECS 4484 3.00	Malware Analysis		
Additional elective credits 12 credits outside of EECS, MATH, and ITEC	☐				
	☐				
	☐				
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Students in the BSc program may substitute AP/ITEC 1620 3.00 and AP/ITEC 2610 3.00 and AP/ITEC 2620 3.00 for EECS 1022 and EECS 2030. Either sequence of courses meets prerequisites for other 2000-level computer science courses.

EECS GPA Prerequisite:
Most 2000-, 3000-, and 4000-level EECS courses require a cumulative GPA or 4.5 or better over all EECS major courses in addition to other course-specific prerequisites.
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).

CO-OP:
Participation in Co-op or internship option is highly recommended, but is not a degree requirement.

Non-Science Requirement:
12 credits from the approved list of courses and subject areas in your Academic Calendar

Science Breadth:
24 credits in science disciplines outside the major, of which 3 credits must be at the 2000 level or above.
This requirement is satisfied by the MATH and foundational science lab credits stated on your degree checklist.

Upper Level Requirement:
A minimum of 42 credits at the 3000 level or higher. 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 overall GPA of 5.00 required to graduate in an Honours program

Notes