LASSONDE SCHOOL OF ENGINEERING | YORK UNIVERSITÉ UNIVERSITY	DEGREE CHECKLIST 2019-2020	BACHELOR OF ARTS (BA) 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	Programming for Mobile Computing		
	☐	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		
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 2011 3.00	Fundamentals of Data Structures		
	☐	LE/EECS 2021 4.00	Computer Organization		
	☐	LE/EECS 2031 3.00	Software Tools		
	☐	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		
	☐	LE/EECS 3421 3.00**	Introduction to Database Systems		
General Education/Electives	☐				

Students in the BA program must choose to take either the pair LE/EECS 1022 3.00 and LE/EECS 2030 3.00, or AP/ITEC 1620 3.00 and AP/ITEC 2610 3.00 and AP/ITEC 2620 3.00; either sequence of courses meets prerequisites for other 2000-level computer science courses. Wherever specified AP/ITEC courses are used to satisfy degree requirements in this program, they will also be used in the general prerequisite GPA calculation.

To satisfy computer security degree requirements, 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.

* 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)

**AP/ITEC 3220 3.00 may be taken in lieu of LE/EECS 3421 3.00.

	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 3311 3.00	Software Design		
	☐	LE/EECS 3481 3.00	Applied Cryptography		
	☐	LE/EECS 3482 3.00	Introduction to Computer Security		
General Education/Electives	☐				
	☐				
Fourth Year Courses					
	☐	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	Computer Security Management: Assessment and Forensics		
Additional elective credits, as required for an overall total of at least 120 credits, including at least 18 credits at the 4000-level. The requirement of 36 credits at the 3000-level or higher is satisfied by the EECS courses listed above.	☐				
	☐				
	☐				
	☐				
	☐				
	☐				

General Education Requirement:
21 credits chosen from humanities, natural science and social science courses, with the constraint that at least 6.00 credits must be chosen from each of humanities, social science and natural science areas, but no more that 9.00 credits should be in any one of the three areas. For the successful completion of the degree program, at least 30 credits must be completed which are outside computer science, mathematics, statistics and information technology courses. AP/SOSC 2312 9.00 or AP/SOSC 2340 9.00 are highly recommended as fulfilling, in part, the General Education requirement.

Electives:
All BA, Honours BA, Specialized Honours BA and Honours iBA degree candidates must choose at least 18 elective credits outside the major.
Moreover, these elective credits may not be part of the general education or any other named requirements (such as MATH requirements). Honours double major and major/minor programs automatically meet this regulation.

TOTAL CGPA (minimum overall GPA of 5.00 (C+) required to graduate with an Honours BA 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.

Notes