



**DEGREE CHECKLIST  
2016-2017**

**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/>

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 1025 3.00    Applied Linear Algebra		
	<input type="checkbox"/>	SC/MATH 1131 3.00    Introduction to Statistics I		
	<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"/>			
* 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)				
<b>Second Year Courses</b>				
	<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		
	<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"/>	AP/PHIL 2075 3.00 or SC/STS 3500 3.00    Introduction to Applied Ethics or The Global Information Society		
<b>General Education/Electives</b>	<input type="checkbox"/>			
	<input type="checkbox"/>			
<b>BSc Spec Hons, Computer Security</b>			<b>Page 1 of 2</b>	

### 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 3213 3.00	Communications Networks		
	<input type="checkbox"/>	LE/EECS 3214 3.00	Computer Network Protocols and Applications		
	<input type="checkbox"/>	LE/EECS 3221 3.00	Operating System Fundamentals		
	<input type="checkbox"/>	LE/EECS 3311 3.00	Software Design		
	<input type="checkbox"/>	LE/EECS 3421 3.00	Introduction to Database Systems		
	<input type="checkbox"/>	LE/EECS 3481 3.00	Applied Cryptography		
	<input type="checkbox"/>	LE/EECS 3482 3.00	Introduction to Computer Security		
<b>General Education/Electives</b>	<input type="checkbox"/>				

### Fourth Year Courses

	<input type="checkbox"/>	LE/EECS 4413 3.00	Building E-Commerce Systems		
	<input type="checkbox"/>	LE/EECS 4480 3.00	Computer Security Project		
	<input type="checkbox"/>	LE/EECS 4481 4.00	Computer Security Laboratory		
	<input type="checkbox"/>	LE/EECS 4482 3.00	Computer Security Management: Assessment and Forensics		
<b>General Education/Electives</b>	<input type="checkbox"/>				
	<input type="checkbox"/>				
<b>Remaining General Education Requirements: 12 non-science requirement credits</b> which are outside computer science, mathematics, statistics and information technology.	<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: six 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 three credits must be at the 2000 level or above. 21 of these 24 credits, including 3 credits at the 2000 level, are satisfied by the above requirements. Not required if the 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 overall GPA of 5.00 required to graduate in an Honours program)

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 TIP/ PEP is highly recommended, but is not a degree requirement.