DEGREE CHECKLIST 2024-2025	BACHELOR OF SCIENCE (BSc) COMPUTER SECURITY Specialized Honours
NAME	
STUDENT #	

		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		
Prerequisite: LE/EECS 1012 3.00	☐ 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		
Prerequisite: SC/MATH 1300 3.00 or SC/MATH 1013 3.00	☐ 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	☐			
	☐			
Non-Science/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 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	☐			
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 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		
Completion of - 12 credits outside of EECS, MATH, and ITEC **Additional elective credits, as required, for a total of 120 credits**	☐			
	☐			
	☐			
	☐			
	☐			

Non-Science Requirement:
12 credits from the approved list of courses and subject areas in your Academic Calendar. AP/SOSC 2312 9.00 or AP/SOSC 2340 9.00 are highly recommended.

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 requirement is satisfied by the 3000 and 4000-level credits stated on your degree checklist.

Additional elective credits, as required, for a minimum total of 120 credits.

TOTAL CGPA (minimum cumulative GPA of 5.00 (C+) required to graduate with an Honours degree)

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. "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 Co-op is highly recommended, but is not a degree requirement.

Notes

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.

Non-Science Requirement
BSc, Honours BSc, iBSc General Education

Essentials

- You need to pass a total of 12 credits to satisfy this requirement
- You need to choose from at least two different subject areas (for example: ECON and HUMA)

*Restrictions & Reminders

- Courses taken to learn a language **do not** count
- Courses cross-listed to a Faculty of Science (SC) course **do not** count
- Courses with a Faculty of Science (SC) course listed as a course credit exclusion (CCE) **do not** count
- Courses with a focus on science, math or statistics **do not** count (e.g. MODR 1650, ECON 1530, etc.)
- Courses taken to satisfy a second major/minor **cannot** be double counted towards the non-science requirement

Courses in the following subject areas may be taken (subject to the restrictions noted above):

Anthropology (ANTH)	French Studies (FR)	History (HIST)	Political Science (POLS)
Classical Studies (CLST)	Gender and Women's	Humanities (HUMA)	Social Science (SOSC)
English (EN)	Studies (GWST)	Modes of Reasoning (MODR)	Sociology (SOCI)
Economics (ECON)	Geography (GEOG)	Philosophy (PHIL)	

Students may also take literature, linguistics, or culture courses (NOT language courses) from the subject areas listed below:

Arabic (ARB), Chinese (CH), Department of Languages, Literature and Linguistics (DLLL), English as a Second Language (ESL), French (FR, FRAN), Greek (GK), Modern Greek (GKM), Hindi (HND), Italian (IT), Japanese (JP), Korean (KOR), Latin (LA), Linguistics (LING, LIN), Language Learning Seminar (LLS), Persian (PERS), Portuguese (POR), Spanish (SP)

(e.g. ARB 2700 Intro to Arab Culture counts, but <u>not</u> ARB 1000 Intro to Modern Standard Arabic)

Courses from the list below may also be taken:

EU/ENVS 1000 6.00	FA/MUSI 1500 6.00	FA/MUSI 1550 6.00	FA/VISA 2110 6.00
EU/ENVS 2100 6.00	FA/MUSI 1510 6.00	FA/MUSI 2520 6.00	FA/VISA 2540 6.00
EU/ENVS 2150 3.00	FA/MUSI 1520 6.00	FA/THEA 1500 6.00	FA/VISA 2550 6.00
FA/DANC 1340 3.00	FA/MUSI 1530 6.00	SB/ENTR 3400 3.00	FA/VISA 2620 6.00
FA/DANC 2340 3.00	FA/FILM 1401 6.00	SB/ENTR 3600 3.00	LW/LAW 3591M 3.00
FA/FACS 1900 6.00	FA/MUSI 1540 6.00	SB/ENTR 4500 3.00	