

Cybersecurity (BSc) – Co-Op Program September Entry

Department of Cybersecurity and
Intelligent Systems Engineering

Year 1: 29.5 credits			Year 2: 31 credits			Year 3: 29.5 credits		
Fall: 14 credits	Winter: 15.5 credits	Summer	Fall: 15 credits	Winter	Summer: 16 credits	Fall	Winter: 16 credits	Summer: 13.5 credits
INSE 201 Security Ethics, Laws, Standards & Compliance (1.5)	INSE 221 Cryptography I (3) pre: COMP 232 or COEN 231	Work Term 1	INSE 349 Secure Programming and Software Design (3) pre: INSE 221	Work Term 2	INSE 331 Database Security (3) pre: INSE 349; COMP 352 or COEN 352	Work Term 3	INSE 351 Operating System Security (3) pre: INSE 349; COMP/COEN 346	INSE 445 Network Security (3) pre: INSE 321, 349; COMP 445 or ELEC/COEN 366
COMP 232 Mathematics for Computer Science (3) pre: MATH 203, 204	COMP 228 System Hardware (3) pre: COMP 248; MATH 203, 204		INSE 386 Introduction to Cybersecurity Management & Governance (3) pre: INSE 201		COMP 346 Operating Systems (4) pre: COMP/SOEN 228; COMP 352		COMP 445 Data Communication & Computer Networks (4) pre: COMP 346	INSE 413 Security Auditing & Compliance (3) pre: INSE 331, 341, 351
COMP 248 Object-Oriented Programming I (3.5) pre: MATH 204	COMP 249 Object-Oriented Programming II (3.5) pre: COMP 248; MATH 203, 205		COMP 352 Data Structures & Algorithms (3) pre: COMP 232, 249		INSE 48x Cybersecurity Elective Course 2 (3)		INSE 48x Cybersecurity Elective Course 4 (3)	General Elective Course 5 (3)
General Elective Course 1 (3)	ENCS 282 Technical Writing & Communication (3) pre: EWT/ENCS 272		INSE 48x Cybersecurity Elective Course 1 (3)		INSE 48x Cybersecurity Elective Course 3 (3)		Math Elective Course 3 (3)	General Elective Course 6 (3)
Math Elective Course 1 (3)	General Elective Course 2 (3)		Math Elective Course 2 (3)		General Elective Course 3 (3)		General Elective Course 4 (3)	General Elective Course 7 (1.5)