

Cybersecurity – BSMS Dubal Degree (AY 2026-27)

First	GCIS 123 Software Development & Problem Solving I	CSEC 140 Principles of Cybersecurity	Math 181 Project Based Calculus I	Perspective	Perspective	YOPS 10 RIT 365
Year	GCIS 124 Software Development & Problem Solving II (C- or better in GCIS 123)	NSSA 241 Intro to Routing and Switching (CSEC 140)	Math 182 Project Based Calculus II (C- or better in MATH 181)	Math 190 Discrete Math (MATH 181) (Co-req or completion of MATH 182)	First Year Writing (WI - 1)	
Second	CSEC 201 Programming for Info Security (CSEC 140)	NSSA 221 Systems Administration I (GCIS 123 or NSSA 220 & NSSA 241)	MATH 251 Probability & Statistics (MATH 182)	*Lab Science Sequence I*	Perspective	
Year	CSEC 202 Reverse Engineering Fundamentals (CSEC 201)	NSSA 245 Network Services (NSSA 221)	MATH 241/ STAT 257 Linear Algebra/ Statistical Inference (MATH 190/ MATH 251)	*Lab Science Sequence II*	Perspective	CSEC 99 Co-op Seminar
CSEC 499 Summer Co-op (CSEC 99)						
Third	CSCI 462 Introduction to Cryptography (CSEC 202, MATH 190)	CSEC 310 Endpoint Security Engineering (CSEC 140, NSSA 245)	ISTE 230 Introduction to Database and Data Modeling (GCIS 123)	FREE ELECTIVE	PUBL 363 Cyber Security Policy & Law	
Year	CSEC 380 Principles of Web Application Security (CSEC 140 & NSSA 245)	CSEC 472 Authentication & Authorization (CSCI 462)	BS CSEC ELECTIVE	FREE ELECTIVE	IMMERSION	
CSEC 499 Summer Co-op (CSEC 99)						
Fourth	BS CSEC ELECTIVE	MS CSEC ELECTIVE	FREE ELECTIVE	PHIL 102/ 202/306 Ethics Elective E-4	IMMERSION	
Year	MS CSEC ELECTIVE	MS CSEC ELECTIVE	CSEC 490 Capstone in Cybersecurity (WI - 2) (4TH YEAR)	FREE ELECTIVE	IMMERSION	
Fifth	RESEARCH ELECTIVE	CSEC 603 Enterprise Security	MS CSEC ELECTIVE	MS CSEC ELECTIVE		
Year	MS CSEC ELECTIVE	Capstone: MS CSEC Elective + Research Elective	OR	CSEC 790 Thesis		

Key: Computing

Math

General Education

First Year Requirement

Co-op Seminar

Science

Free Elective

Co-op

Wellness

Prerequisites ()

F- Gen Ed Foundation

P- Gen Ed Perspective

I- Gen Ed Immersion

E- Gen Ed Elective

* Lab Science Sequence*

PHYS 111/211 & 112/212 or

CHMG 141/145 & 142/146 or

BIOL 101/103 & 102/104 or

BIOG 101/103 & 102/104

Writing Intensive(WI) courses:

1. WI 1 : UWRT 150

2. WI 2: CSEC 490

3. Students must take a 3rd writing intensive course in their free electives, perspectives, or immersion

Individual calculus sequence placement determined by the math placement exam