



Plan of Study
BACHELOR OF SCIENCE
CYBER OPERATIONS

Catalog Year: 2021-2022

Sample Schedule: students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in *four years*.

FIRST YEAR

First Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CSC 105 Intro to Computers		3	
CSC 150 Computer Science I		3	
ENGL 101		3	
MATH 114		3	
Natural Science		3	
	Total Credit Hours	15	

Second Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CSC 134 Intro to Cyber Operations		3	
CSC 163 Hardware, Virtual. and Data Comm.		3	
CSC 250 Computer Science II	CSC 150	3	
CMST 101, 215 or 222		3	
MATH 201 Intro to Discrete Math	MATH 114	3	
	Total Credit Hours	15	

SECOND YEAR

Third Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CSC 334 Web Development	CSC 250	3	Fall
CSC 234 Software Security	CSC 250	3	
CSC 285 Networking I		3	
CSC 300 Data Structures	CSC 250	3	
Arts and Humanities		3	
	Total Credit Hours	15	

Fourth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CSC 314 Assembly Language	CSC 250	3	
CSC 385 Networking II	CSC 285	3	Spring and Summer
ENGL 201	ENGL 101	3	
Social Science		3	
Arts and Humanities		3	
	Total Credit Hours	15	

THIRD YEAR

Fifth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CSC 328 Operating Environments		3	
CSC 428 Reverse Engineering	CSC 314	3	
CIS/CSC 300-400 Elective (#1)		3	
Natural Science		3	
Elective		3	
Total Credit Hours		15	

Sixth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CSC 432 Malware Analysis	CSC 428	3	Spring
CSC 456 Operating Systems	CSC 300 and CSC 314	3	Spring and Summer
CIS/CSC 300-400 Elective (#2)		3	
Social Science		3	
Elective		3	
Total Credit Hours		15	

FOURTH YEAR

Seventh Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CSC 321 Information Security Management	30 credits Completed	3	
CSC 420 Cellular and Mobile Communications	CSC 285 and MATH 114	3	Fall
CSC 436 Off Network Security	CSC 328 and CSC 385	3	Fall
CIS/CSC 300-400 Elective (#3)		3	
Elective		3	
Total Credit Hours		15	

Eighth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CSC 404 Foundations of Computation	CSC 300 and MATH 201	3	Spring
CSC 421 Web Software Security	CSC 234 & CSC 334	3	Spring
Or CSC 439 Threat Hunting & IR	CSC 328 and CSC 385		
CSC 437 Survey of Enterprise Systems	CSC 163 and CSC 385	3	Spring
CSC 438 Defensive Network Security	CSC 385	3	Spring
Elective		3	
Total Credit Hours		15	

Information and course schedules may change. This is not a contract.

Unless otherwise noted, courses are generally offered most semesters.

Revised 7/21