

Computer Science, **Cyber Security**

Freshman Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	UNV 1000	Freshman Seminar	1		ENG 1060(GE)	Composition II [must score C or better]	3
	ENG 1050 (GE)	Composition I [must score C or better]	3		CSC 1750	Intro to Algorithms [must score C or better]	3
	MAT 1090 (GE)	Precalculus	4		CSC 1760 [must score C or better]	Intro to Programming	3
	General Education	Fine Art	3		MAT 2210	Calculus I	4
	General Education	Social Science	3		General Education	Literature	3 [WE]
	General Education	Physical Education	2				
Total Credits			16		Total Credits		16

Sophomore Year							
Fall				Spring			
	Course Number	Course Title	Credits		Course Number	Course Title	Credits
	CSC 1850	Object-Oriented Programming	3		CSC 2920	Software Dev. & Professional Practices	3[WD]
	CSC 2150	Discrete Structures	3		ITC 2080	Sys. Admin & Shell Scripting	3
	CSC 2260	Operating Systems and Networking	3		CSC 2250	Fundamentals of Computer Systems	3
	General Education	Social Science	3		General Education	Natural Science	3
	General Education	Philosophy/Religion	3		General Education	Elective	3 [WE]
Total Credits			15		Total Credits		15

Students should choose 12 hours of CSC-Cybersecurity Electives from the following list: (three of them must be at 4000-level course)

*[usually offered in fall]: CSC 3380. Web Programming and Security (3 credits), CSC 4920. Secure Software Development (3 credits), ITC 3250. System Administration and Security (3 credits), CYB 4220: Security Policies & Management (3 credits)

**[usually offered in spring]: CSC 3800. Database Management Systems and Security (3 credits), CYB 4030. Introduction to Digital Forensics (3 credits), CYB 4120: Cryptography (3 credits), ITC 4800. Advanced Computer Systems and System Security (3 credits)

Junior Year							
Fall				Spring			
Course Number	Course Title	Credits		Course Number	Course Title	Credits	
MAT 2100	Intro. to Statistics	3		CYB 4020	Network Security	3	
CSC 3360	Network Protocols	3		CSC 2850	Data Structures	3	
CYB 3020	Introduction to Cyber Security	3		MAT 3150	Linear Algebra	3	
General Education	Natural Science	3		General Education	History	3	
General Education	Social Science	3		General Education	Electives	3	
Total Credits		15		Total Credits		15	

Senior Year							
Fall				Spring			
Course Number	Course Title	Credits		Course Number	Course Title	Credits	
CYB Elective-1	*see below	3		CSC 4900	Cyber Security Capstone	4	
CYB Elective-2	*see below	3		CYB Elective-4	*see below	3	
CYB Elective-3	*see below	3		CYB Elective-5	*see below	3	
General Education	Electives	3		University Wide Elective		3	
University Wide Elective		3		University Wide Elective		4	
Total Credits		15		Total Credits		14	

Students should choose 12 hours of CSC-Cybersecurity Electives from the following list: (three of them must be at 4000-level course)

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**[usually offered in spring]: CSC 3800. Database Management Systems and Security (3 credits), CYB 4030. Introduction to Digital Forensics (3 credits), CYB 4120: Cryptography (3 credits), ITC 4800. Advanced Computer Systems and System Security (3 credits)