

Cybersecurity

120 credit hours total

YEAR 1		YEAR 2		YEAR 3		YEAR 4	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
MATH 220 (4) Analytic Geometry and Calculus I	MATH 221 (4) Analytic Geometry and Calculus II	CIS 300 (3) Data and Program Structures	MATH 510 (3) Discrete Mathematics	CIS 308 (1) C Language Laboratory	CRIM 550 (3) Technocrime, Security and Society	CIS 551 (3) Fundamentals of Computer and Information Security	CIS 599 (3) Cybersecurity Project
CIS 115 (2) Introduction to Computing Science	CIS 200 (4) Programming Fundamentals	CIS 301 (3) Logical Foundations of Programming	CIS 400 (3) Object-Oriented Design, Implementation and Testing	CIS 501 (3) Software Architecture and Design	CIS 450 (3) Computer Architecture and Operations	CIS 525 (3) Introduction to Network Programming	CIS 655 (3) Security and Reliability of Computing Systems
CIS 116 (1) Introduction to Programming	ECE 241 (3) Introduction to Electrical and Computer Engineering	ENGL 200 (3) Expository Writing II	CIS 415 (3) Ethics and Conduct for Computing Professionals	CIS 505 (3) Introduction to Programming Languages	CIS 553 (3) Fundamentals of Cryptography	CIS 560 (3) Database System Concepts	CIS 755 (3) Systems Security
ENGL 100 (3) Expository Writing I	PHYS 113 (4) General Physics I	PHYS 114 (4) General Physics II	SOCIO 211 (3) Introduction to Sociology	Elective (3) Social and Behavioral Sciences	CIS 575 (3) Introduction to Algorithm Analysis	Elective (3) Math	Elective (3-4) Unrestricted
COMM 106 (3) Public Speaking	PHYS 213 (5) Engineering Physics I	PHYS 214 (5) Engineering Physics II	Elective (3) Institutional	Elective (3) Arts and Humanities	ENGL 415 (3) Written Communication for Engineers	Elective (3) Institutional	Elective (4-5) Natural and Physical Sciences
Elective (3) Arts and Humanities	PHYS 223 (5) Physics I, Mechanics and Thermodynamics	PHYS 224 (5) Physics II, Electromagnetism, and Sound		STAT 510 (3) Introductory Probability and Statistics I	ENGL 516 (3) Communication for the Sciences		
CIS 015 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)
(16 credit hours)	(15-16 credit hours)	(13-14 credit hours)	(15 credit hours)	(16 credit hours)	(15 credit hours)	(15 credit hours)	(13-15 credit hours)