

B.S. in Cybersecurity- Degree Completion Guide

Year I Fall			Year I Spring		
Course #	Course Description	Credit	Course #	Course Description	Credit
IGED 110	Foundation Writing, I	3	IGED 111	Foundation Writing II	3
IGED 130	Foundation Oral Communication	3	MATH 185	Elementary Statistics I	3
APCT 110/111	Intro to Programming	3	APCT 231/233	Computer Science I (Lec+Lab)	4
CYSE 130	IT Systems Component Security	3		Natural Science Electives (Lec+Lab)	4
CYSE 100	Introduction to Information Security and Assurance	3	CYSE 110	Ethics in Cybersecurity and Cyber Law	3
Subtotal		15	Subtotal		17
Year II Fall			Year II Spring		
IGED 140	Foundation Ethics	3	IGED 270	Discovery Diversity	3
IGED 210	Discovery Writing	3	CYSE 220	Introduction to Cryptography	3
CYSE 210	Computer Data Communication, Networking Protocols and Management	3		Natural Science Electives (Lec+Lab)	4
Math 220	Discrete Math	3	CSCI 240	Data Structures	3
APCT 232/234	Computer Science II (Lec+Lab)	4	CYSE 230	Introduction to Computer and mobile Forensics	3
Subtotal		16	Subtotal		16
Year III Fall			Year III Spring		
IGED 280	Discovery Civics	3	CYSE 320	Reverse Engineering and Malware Analysis	3
CYSE 275	Principles of Cybersecurity and Security Management	3	CYSE ----	Cybersecurity Elective+	3
CYSE 310	Cybersecurity Planning, Operations, and Incident Response Management	3	CSCI 414	Introduction to Artificial Intelligence	3
CSCI 352	Network Security	3		CS Elective+	3
	CS Elective+	3	CSCI 412	Operating Systems	3
Subtotal		15	Subtotal		15
Year IV Fall			Year IV Spring		
CYSE 440	Principle and Practices of Network Defense and Applied Network Security Monitoring	4	CYSE 420	Cloud Computing Security and Challenges	4
CYSE 465	Advanced Cryptography	3	CYSE 410	Threat Intelligence and Cyber Defense	3
CYSE 430	Secure Software Engineering	3	CYSE ----	Cybersecurity Elective+	3
CYSE 498	Cybersecurity Capstone I	3	CYSE 499	Cybersecurity Capstone II	3
Subtotal		13	Subtotal		13
Total					120

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