

M.S. in Cybersecurity

Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Digital Forensics
- Cyber Response (Defense, Incident & Attack Response)
- Governance & Leadership (Communication, Management, Policy, Compliance)
- Security Architecture (Systems, Software, Data)

Digital Forensics

Code	Title	Credits
Core Courses		21
CYB 700	Fundamentals of Cybersecurity	
CYB 703	Network Security	
CYB 705	Sociological Aspects of Cybersecurity	
CYB 707	Cybersecurity Program Planning and Implementation	
CYB 710	Introduction to Cryptography	
CYB 715	Managing Security Risk	
CYB 720	Communication in Cybersecurity	
Digital Forensics Emphasis		9
CYB 725	Computer Forensics and Investigations	
CYB 730	Computer Criminology	
CYB 735	Network Forensics	
Capstone Courses		4
CYB 789	Cybersecurity Pre Capstone	
CYB 790	Cybersecurity Capstone	
Total Credits		34

Cyber Response

Code	Title	Credits
Core Courses		21
CYB 700	Fundamentals of Cybersecurity	
CYB 703	Network Security	
CYB 705	Sociological Aspects of Cybersecurity	
CYB 707	Cybersecurity Program Planning and Implementation	
CYB 710	Introduction to Cryptography	
CYB 715	Managing Security Risk	
CYB 720	Communication in Cybersecurity	
Cyber Response Emphasis (Defense, Incident & Attack Response)		9
CYB 740	Incident Response and Remediation	
CYB 745	Secure Operating Systems	
CYB 750	Offensive Security & Threat Management	
Capstone Courses		4
CYB 789	Cybersecurity Pre Capstone	
CYB 790	Cybersecurity Capstone	
Total Credits		34

Governance & Leadership

Code	Title	Credits
Core Courses		21
CYB 700	Fundamentals of Cybersecurity	
CYB 703	Network Security	
CYB 705	Sociological Aspects of Cybersecurity	
CYB 707	Cybersecurity Program Planning and Implementation	
CYB 710	Introduction to Cryptography	
CYB 715	Managing Security Risk	
CYB 720	Communication in Cybersecurity	
Governance & Leadership Emphasis (Communication, Management, Policy, Compliance)		9
CYB 755	Security Administration	
CYB 760	Cybersecurity Leadership and Team Dynamics	
CYB 765	Cybersecurity Management	
Capstone Courses		4
CYB 789	Cybersecurity Pre Capstone	
CYB 790	Cybersecurity Capstone	
Total Credits		34

Security Architecture

Code	Title	Credits
Core Courses		21
CYB 700	Fundamentals of Cybersecurity	
CYB 703	Network Security	
CYB 705	Sociological Aspects of Cybersecurity	
CYB 707	Cybersecurity Program Planning and Implementation	
CYB 710	Introduction to Cryptography	
CYB 715	Managing Security Risk	
CYB 720	Communication in Cybersecurity	
Security Architecture Emphasis		12
CYB 770	Security Architecture	
CYB 775	Applied Cryptography	
CYB 780	Software Security	
CYB 785	Cyber Physical System Security	
Capstone Courses		4
CYB 789	Cybersecurity Pre Capstone	
CYB 790	Cybersecurity Capstone	
Total Credits		37