M.S. in Cybersecurity

Cybersecurity

Program Director

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Cyber threats are emerging more than ever in today's digital world, and organizations are faced with constantly staying a step ahead to avoid falling prey to cybercriminal attacks.

In response, the Department of Computer Science at St. Mary's University offers a master's program that will provide students with knowledge, skills and best practices on how to monitor, secure and safeguard an organization's cyber assets.

A uniquely St. Mary's program, the Master of Science in Cybersecurity combines technical rigor with sound ethics and implications to the law.

Students will take courses in risk management, wireless security, computer forensics, mathematics for cryptography, and cyber law to get a hands-on experience of how to protect networks, computers, programs, and institutional data from attack, damage or unauthorized access.

MS in Cybersecurity program is a 33-hour program. Students may elect a project or a thesis option. Non-thesis students must complete 30 credit hours of course work and 3 credit hours of a capstone master project that culminates in an oral presentation to the project committee. The thesis option consists of 27 hours of course credit and 6 hours of thesis direction. The thesis must be defended orally. The thesis committee may ask course-related questions during the thesis defense.

Click on the course number to view course title and description.

Project Option

Code	Title	Semester Hours
Courses required for the degree:		
Foundational Courses (required)		
CS 6330	Advanced Computer Networks	3
CS 6361	Computer Network Security	3
CS 6362	Computer Security and Privacy	3
CS 6364	Digital Forensics and Cyber Crime	3
CS 6368	Cybersecurity Policy and Law	3
CS 6369	Cryptography Principles and Practice	3
EG 7314	Software Security	3
Elective Courses		
Select three courses from the following		9
CS 6363	Cloud Computing Security	
CS 6365	Preparation for Security Certification	
CS 6367	Cybersecurity Risk Management	
EG 6335	Wireless Security	
CS 6385	Internship	
Capstone		
CS 6395	Project	3
Total Semester Hours		**33**

Thesis Option

Code	Title	Semester Hours
Foundational Courses		
CS 6330	Advanced Computer Networks	3
CS 6361	Computer Network Security	3
CS 6362	Computer Security and Privacy	3
CS 6364	Digital Forensics and Cyber Crime	3

CS 6368	Cybersecurity Policy and Law	3
CS 6369	Cryptography Principles and Practice	3
EG 7314	Software Security	3
Elective Courses		
Select two courses from the following		6
CS 6363	Cloud Computing Security	
CS 6365	Preparation for Security Certification	
CS 6367	Cybersecurity Risk Management	
CS 6385	Internship	
EG 6335	Wireless Security	
Thesis		
CS 6391	Thesis I	3
CS 6392	Thesis II	3
Total Semester Hours		**33**