

# M.S. in Cybersecurity

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## 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.

### Project Option (Non-Thesis)

Code	Title	Semester Hours
<b>Foundational Courses</b>		
CS 6330	Advanced Computer Networks	3
CS 6362	Computer Security and Privacy	3
CS 6369	Cryptography Principles and Practice	3
EG 7314	Software Security	3
<b>Elective Courses</b>		
Select 18 credit hours from the following		18
CS 6361	Computer Network Security	
CS 6363	Cloud Computing Security	
CS 6364	Digital Forensics and Cyber Crime	
CS 6365	Preparation for Security Certification	
CS 6366	Mathematics for Cryptography	
CS 6367	Cybersecurity Risk Management	
CS 6368	Cybersecurity Policy and Law	
CS 6185	Internship	
CS 6285	Internship	
CS 6385	Internship	
EG 6335	Wireless Security	
<b>Comprehensive Project</b>		
CS 6395	Project	3
Total Semester Hours		33

### Thesis Option

Code	Title	Semester Hours
<b>Foundational Courses</b>		
CS 6330	Advanced Computer Networks	3
CS 6362	Computer Security and Privacy	3
CS 6369	Cryptography Principles and Practice	3
EG 7314	Software Security	3
<b>Elective Courses</b>		
Select 15 credit hours from the following		15
CS 6361	Computer Network Security	

CS 6363	Cloud Computing Security	
CS 6364	Digital Forensics and Cyber Crime	
CS 6365	Preparation for Security Certification	
CS 6366	Mathematics for Cryptography	
CS 6367	Cybersecurity Risk Management	
CS 6368	Cybersecurity Policy and Law	
CS 6185	Internship	
CS 6285	Internship	
CS 6385	Internship	
EG 6335	Wireless Security	
<b>Thesis</b>		
CS 6391	Thesis I	3
CS 6392	Thesis II	3
Total Semester Hours		33