

# Certificate in Cybersecurity

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## Department

Certificate in Cybersecurity (<https://www.stmarytx.edu/academics/set/graduate/certificate-programs/cybersecurity-graduate-certificate-program>)

The certificate program in Cybersecurity focuses on presenting students with the fundamental principles and hands-on experience of how to protect networks, computers, programs, and institutional data from attack, damage or unauthorized access. This program is designed to serve the needs of individuals who would like to increase their knowledge and skill levels in the field of cybersecurity in a short time frame.

Students who successfully complete the certificate program are highly encouraged to continue and earn their Master of Science degree in Cybersecurity by taking five additional courses and complete a capstone project or four additional courses and a thesis.

## Program Specific Admission Requirements

Applicants must have an undergraduate degree (or equivalent experience) in Computer Science, Computer Engineering, Software Engineering, or a closely related discipline

Applicants whose undergraduate degree is not in Computer Science, Computer Engineering, Software Engineering, or a closely related discipline are required to demonstrate proficiency in the following subjects or take the corresponding prerequisite courses at St. Mary's University or other institutions: Discrete Mathematics, Object Oriented Programming, and Data Structures

## Certificate Requirements

The certificate program in Cybersecurity requires four classes (12 credit hours) that can also be used toward a Master's of Science in Cybersecurity. Students will choose four courses from this list of three-hour courses:

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Select four of the following:		12
CS 6361	Computer Network Security	
CS 6362	Computer Security and Privacy	
CS 6364	Computer Forensics and Cyber Crime	
CS 6367	Cybersecurity Risk Management	
CS 6368	Cybersecurity Policy and Law	
CS 6369	Cryptography Principles and Practice	
CS 6375	Special Topics	
EG 7314	Software Security	
Total Semester Hours		12