

CYBERSECURITY CERTIFICATE REQUIREMENTS

This graduate certificate offers studies in core areas of cybersecurity: cryptography, host security, network security, risk management, security policy and law, and emerging areas in security and privacy.

The certificate emphasizes both design and operations of secure systems through both theoretical studies and a large amount of hands-on assignments and projects. It is designed for both professionals and fresh graduates with bachelor's degrees who may not wish to complete a full master's degree program, as well as those who want to integrate this certificate into their master's degree program.

The certificate could be taken by one with a bachelor's degree in any area, although a certain number of courses need to be taken before starting this program depending on one's background. The basic knowledge that one is expected to have includes intermediate level programming, discrete mathematics/discrete structures, and computer organization.

NOTE: If ITSCM 760 is chosen, the topic is required to be in cybersecurity or cybersecurity management. Other topics are offered but will not count toward this certificate.

Code	Title	Units
Required Courses		9
COMPSCI 750	SYSTEM AND SOFTWARE SECURITY	3
CYBER 754	INTRUSION PREVENTION AND DETECTION	3
COMPSCI 755	CRYPTOGRAPHY AND SECURITY PROTOCOLS	3
Select one course out of the following list:		3
CYBER 759	TOPICS IN CYBERSECURITY	3
ITSCM 760	TOPICS IN INFORMATION TECHNOLOGY AND MANAGEMENT (Topic needs to be in cybersecurity)	3
Total Units		12