

# Cybersecurity Graduate Programs

## Cybersecurity Graduate Programs

The Cybersecurity Graduate Programs are in the [Scott M. Smith College of Engineering](#). To find the most up-to-date information, including Program Learning Outcomes for degree programs offered by the Cybersecurity Graduate Programs, visit their website.

[Cybersecurity Graduate Programs](#)

### FACULTY

**HAMDAN, Basil** Associate Professor

## Degrees & Programs

### Cybersecurity, M.S.

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#### Requirements

The Master of Science in Cybersecurity is intended for individuals who desire to acquire additional cybersecurity knowledge, skills, and abilities in order to pursue new or advance existing careers in cybersecurity. The program is also designed for individuals who plan to pursue doctorate degrees in cybersecurity or related fields. The program focuses on the managerial and technical perspectives of cybersecurity through extensive use of case-studies and hands-on lab exercises.

#### Total Program Credits: 30

Matriculation Requirements:			
<ol style="list-style-type: none"> <li>Bachelor's degree with a GPA of at least 3.2 on a 4.0 scale from an accredited institution in one of the following fields: (Applicants who have bachelor's degrees in other fields may be admitted to the program if they have at least two years of technology or cybersecurity industry experience and have completed undergraduate courses in data communication, programming, and server administration with a grade of C+ or better. Students may also take a comprehensive exam on these topics to satisfy this admission requirement. These applications will be handled on a case-by-case basis.)             <ol style="list-style-type: none"> <li>Information Systems</li> <li>Information Security</li> <li>Information Technology</li> <li>Computer Science</li> </ol> </li> <li>Admission essay.</li> <li>Completed application for admission.</li> <li>Official transcripts from all attended institutions of higher education.</li> <li>Two letters of recommendation</li> </ol>			
Discipline Core Requirements:			21 Credits
	<a href="#">IT 6300</a>	Principles of Cybersecurity	3
	<a href="#">IT 6330</a>	Cybersecurity Operations	3
	<a href="#">IT 6350</a>	Law/Ethics/ Privacy in Cybersecurity	3
	<a href="#">IT 6370</a>	Penetration Testing and	3

		Vulnerability Assessment	
	<a href="#">IT 6740</a>	Advanced Network Defense and Countermeasures	3
	<a href="#">IT 6770</a>	Cybersecurity Management	3
	<a href="#">IT 6900</a>	Cybersecurity Capstone	3
Elective Requirements:			9 Credits
Choose 9 credits from the following:			9
	<a href="#">IT 6660</a>	Advanced Network Forensics (3.0)	
	<a href="#">IT 6750</a>	Reverse Engineering and Malware Analysis (3.0)	
	<a href="#">IT 6780</a>	Secure Coding (3.0)	
	<a href="#">INFO 6420</a>	Web and Mobile Application Security (3.0)	
	or other departmental approved electives		

#### Graduation Requirements:

- Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
- Courses must be finished within a five-year period. No courses will apply toward graduation that are older than five years.

### Cybersecurity, M.S. Careers

- Demonstrate an understanding of the technical and managerial aspects of cybersecurity.
- Demonstrate the ability to solve cybersecurity related problems and to make effective cybersecurity decisions in a dynamic and constantly changing environment.
- Demonstrate proficiency in using the tools, techniques, and technologies related to the identification and mitigation of cybersecurity threats.
- Develop an understanding of risk management methods as they relate to cybersecurity.
- Develop an understanding of the legal, regulatory, and ethical issues surrounding cybersecurity.

#### Related Careers

- Computer and Information Systems Managers
- Information Security Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Network Support Specialists