

Cybersecurity Engineering — Graduate Certificate, MS

Cybersecurity Engineering — MS

On-Campus or Online

This graduate program prepares students for understanding, analyzing, developing, investigating, protecting, and defending the cyber ecosystem of organizations. As such, it focuses on the engineering and technical aspects of cybersecurity. The degree is designed to appeal to traditional students as well as practitioners through the inclusion of capstone experience.

The Master of Science in Cybersecurity Engineering degree entails a minimum of 33 semester graduate credit hours. The following courses are required:

Code	Title	Hours
Foundational Courses (3 credit hours)		
COMP 7500	Advanced Topics in Operating Systems	3
Required Cybersecurity-Specific Courses (18 credit hours)		
COMP 6350	Digital Forensics	3
COMP 6370	Computer and Network Security	3
COMP 6530	Secure Cloud Computing: Principles, Practice, and Applications	3
COMP 6830	Cybersecurity Threats and Countermeasures	3
COMP 7370	Advanced Computer and Network Security	3
COMP 7720	Software Reverse Engineering	3
Elective Cybersecurity Courses (9 credit hours)		
approved 6000/7000/8000-level coursework relevant to cybersecurity		9
Capstone experience (3 credit hours)		
COMP 7980	Capstone Engineering Project	3
Total Hours		33

Students who have taken the 5000-level version of any 6000-level course cannot take the course in its 6000-level format. They must substitute another approved cybersecurity-relevant graduate course. All courses in the degree must be taken for a grade.

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Students will take the following three (3) required courses. The focus of this coursework is to equip students with the advanced education required to analyze, develop, investigate, protect, and defend computer and information systems.

Code	Title	Hours
Graduate Certificate in Cybersecurity Engineering		
COMP 6350	Digital Forensics	3
COMP 6370	Computer and Network Security	3
COMP 7370	Advanced Computer and Network Security	3
Total Hours		9