NETWORKING AND INFRASTRUCTURE CONCENTRATION, CYBERSECURITY (MS)

Course Requirements

Introductory Courses

Course	Title	Quarter Hours
CSEC 418	INTRODUCTION TO HOST SECURITY (FORMERLY CNS 418)	4
NET 405	NETWORK FUNDAMENTALS (FORMERLY TDC 405)	4
NET 411	INTRODUCTION TO COMPUTER AND NETWORK SYSTEMS (FORMERLY TDC 411)	4
NET 413	INTRODUCTION TO LAN TECHNOLOGIES (FORMERLY TDC 413)	4

Foundation Courses

Course	Title	Quarter Hours
CSEC 440	INFORMATION SECURITY MANAGEMENT (FORMERLY CNS 440)	4
CSEC 445	HUMAN-CENTERED CYBERSECURITY (FORMERLY CNS 445)	4
CSEC 450	DIGITAL FORENSIC TECHNIQUES (FORMERLY CNS 450)	4
NET 463	COMPUTER NETWORKS AND DATA SYSTEMS (FORMERLY TDC 463)	4
NET 477	NETWORK SECURITY (FORMERLY TDC 477)	4

Advanced Courses

A maximum of four (4) Advanced Courses can be taken before completing the Foundation Courses and fulfilling the GPA Requirement.

Course	Title	Quarter Hours
CSEC 488	SECURITY TESTING AND ASSESSMENT (FORMERLY CNS 488)	4
CSEC 533	ENTERPRISE SECURITY INFRASTRUCTURE CONTROLS AND REGULATORY COMPLIANCE (FORMERLY CNS 533)	4
NET 577	NETWORK SECURITY II (FORMERLY TDC 577)	4
Select one of:		4
NET 511	TELECOMMUNICATIONS PRACTICUM (FORMERLY TDC 511)	
CSEC 489	ADVANCED CYBER ATTACK RESPONSES AND DEFENSES (FORMERLY CNS 489)	

Major Elective Courses

Students must complete **eight (8) Credit Hours of CSEC or NET courses in the range of 420 or higher.** That course cannot be used to fulfill a student's Concentration Area or Foundation Courses requirements.

Capstone Options

Four (4) credit hours are required for the capstone requirement. Students have the option of completing the Information Security Governance course (4 credit hours) or the Computer, Information and Network Security Capstone course (4 credit hours) or the Network Capstone course (4 credit hours) or completing a Master's Research Project (up to 8 credit hours) to fulfill their Capstone requirement. If a student chooses to complete a Master's Research project for 8 credit hours, 4 credit hours of CSC 695 CSC 695 replace one major elective course in the M.S. in Cybersecurity program. A student who completes a Master's Research project also has the option of completing a Master's Thesis.

Information Security Governance Course

- CSEC 587

Computer, Information and Network Security Capstone Course

- CSEC 594

Network Capstone Course

- NET 594

Master's Research

- Students interested in a more-in-depth study of a particular area can choose to work with a faculty member (not necessarily their academic advisor) on an independent study or research project. The student will register for up to 8 credit hours of CSC 695. If a student chooses to complete a Master's Research project for 8 credit hours, 4 credit hours of CSC 695 replace one major elective course in the M.S. in Cybersecurity program.

Master's Thesis

- A student who has made an original contribution to the area (typically, through work done by CSC 695) may choose to complete a Master's Thesis. The student and the student's research advisor should form a Master's Thesis Committee of 3 faculty. The student will need to submit to the committee a thesis detailing the results of the research project. After a public defense, the committee will decide whether to accept the thesis. In that case, the student will be allowed to register for the 0 credit course CSC 698 and the transcript will show the thesis title as the course topic.