

Cybersecurity CTS

Certificate of Technical Studies

Program Director: Cheryl Simpson

Program Faculty: Steven Robinett

NOTE: This program is currently under review and will not be accepting new students.

This program is offered completely on-line - discuss options with your advisor.

The Cybersecurity Certificate Degree will prepare students with additional, career tools to continue on the path to a technician/system analyst with a focus on the skills required to understand and conceptualize, design, procure, and/or build secure information technology (IT) systems.

Upon completion of the Cybersecurity Certificate Degree, students will be able to successfully provide the support, administration, and maintenance necessary to ensure effective and efficient information technology (IT) system performance and security as an entry level or higher systems technician/system analyst.

Outcomes

Graduates are prepared to:

- Conceptualize, design, procure, and/or builds secure information technology (IT) systems, with responsibility for aspects of system and/or network development.
- Provides the support, administration, and maintenance necessary to ensure effective and efficient information technology (IT) system performance and security.
- Provides leadership, management, direction, or development and advocacy so an organization may effectively conduct cybersecurity work.
- Identifies, analyzes, and mitigate threats to internal information technology (IT) systems and/or networks.
- Performs highly-specialized review and evaluation of incoming cybersecurity information to determine its usefulness for intelligence.
- Provides specialized denial and deception operations and collection of cybersecurity information that may be used to develop intelligence.
- Investigates cybersecurity events or crimes related to information technology (IT) systems, networks, and digital evidence.
- **Outcomes are based on the National Institute for Cybersecurity Education (NICE) Outcomes

Estimated Cost

Estimated Resident Program Cost*

Tuition and Fees	\$3,532
Lab/Course Fees	\$735
Books/Supplies	\$793
Total	\$5,090

*

Fall 2023 MUS Student Health Insurance Premiums may be changing. Please check the Health Insurance website (<http://students.gfcmsu.edu/insurance.html>) and/or Student Central for confirmed premium rates. Students will be charged an additional fee of \$21 per credit for online/hybrid courses for only Summer 2023 classes.

Program Requirements

PREREQUISITES:

- All applicants must have already applied to and been accepted as students at GFC MSU **THEN**
- A completed Application Packet must be included by all students entering the program **AND**
- Fit **one** of the bulleted intake criteria listed below:

Cybersecurity CTS Intake Criteria

- One of the following degrees within the last 8 years: associates or bachelor's degree in Network Support and Security, Programming, Microcomputer Support or similarly related degree in Information Technology/Information Systems. Provide Transcript(s).
- Currently enrolled in a two- or four- year degree at least sophomore level in Network Support and Security, Programming, Microcomputer Support or similarly related degree in Information Technology/Information Systems. Provide most recent transcript.
- Related work experience with consent of the program director. Provide proof of relevant work experience in the form of resume and a reference questionnaire from at least two work-related individuals, one being a direct supervisor. Industry certifications such as A+, Microsoft Servers, Net+, Security+, or others can be used in place of a degree when combined with relevant work experience.
- For individuals without these qualifications, the list of pre-requisite courses are:

Course	Title	Credits	Grade/Sem
CSCI 105	Computer Fluency	3	_____
ITS 210	Network Operating System - Desktop *	3	_____
ITS 215	Network Operating Systems - Directory /Infrastructure *	4	_____
ITS 224	Introduction To Linux *	4	_____
ITS 280	Computer Repair and Maintenance *	4	_____

Many students need preliminary math and writing courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and writing placement before planning out their full program schedules.

Course	Title	Credits	Grade/Sem
First Year			
Fall			
ITS 164	Networking Fundamentals *+	3	_____
ITS 245	Computer Forensics +	3	_____
ITS 271	Securing Desktop/Mobile Devices *+	4	_____
Credits		10	
Spring			
ITS 218	Network Security *+	3	_____
ITS 222	Enterprise Security *+	3	_____

ITS 274	Ethical Hacking and Network Defense *,+	3	_____
ITS 289	Professional Certification +	1	_____
Credits		10	
Total Credits		20	

+

A grade of C- or above is required for graduation.

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Indicates prerequisites needed.

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Placement in course(s) is determined by placement assessment.