Cybersecurity AAS

Associate of Applied Science Degree

Program Director: Cheryl Simpson

Program Faculty: Steven Robinett

The Cybersecurity Degree prepares students for a career as a system 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 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.

Program prepares students for CompTia certifications, including A+, Network +, Security+, CySA+, Linux+.

Outcomes

Graduates are prepared to:

Securely Provision

 Conceptualize, design, procure, and/or builds secure information technology (IT) systems, with responsibility for aspects of system and/or network development.

Operate and Maintain

 Provides the support, administration, and maintenance necessary to ensure effective and efficient information technology (IT) system performance and security.

Oversee and Govern

 Provides leadership, management, direction, or development and advocacy so an organization may effectively conduct cybersecurity work.

Protect and Defend

 Identifies, analyzes, and mitigate threats to internal information technology (IT) systems and/or networks.

Analyze

 Performs highly-specialized review and evaluation of incoming cybersecurity information to determine its usefulness for intelligence.

Collect and Operate

 Provides specialized denial and deception operations and collection of cybersecurity information that may be used to develop intelligence.

Investigate

 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) (https://niccs.cisa.gov/workforce-development/nice-framework/) Outcomes

Estimated Cost Estimated Resident Program Cost*

Tuition and Fees	\$7,064
Lab/Course Fees	\$1,070
Books/ Supplies	\$1,807
Total	\$9,971

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

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 First Year Fall	Title	Credits	Grade/Sem
CSCI 100	Introduction to Programming *,+	3	
CSCI 105	Computer Fluency +	3	
ITS 280	Computer Repair and Maintenance	4	
M 121	College Algebra **,+	3	
Choose one o	f the following:		
WRIT 101	College Writing I **,+	3	
WRIT 121	Intro to Technical Writing **,+	3	
	Credits	16	
Spring			
COMX 115	Introduction to Interpersonal Communication +	3	
ITS 164	Networking Fundamentals *,+	3	
ITS 210	Network Operating System - Desktop *.+	3	
ITS 218	Network Security *,+	3	
ITS 224	Introduction To Linux *,+	4	
	Credits	16	_
Second Year Fall			
ITS 215	Network Operating Systems - Directory /Infrastructure *,+	4	
ITS 245	Computer Forensics +	3	
ITS 271	Securing Desktop/Mobile Devices *,+	4	
ITS 279	Cloud Systems *,+	3	
	Credits	14	
Spring			
BGEN 220	Business Ethics and Social Responsibility +	3	

	Total Credits	62	
	Credits	16	
ITS 299	Capstone *,+	3	
ITS 298	Internship *,+	3	
Select one of	the following:		
ITS 277	Software Assurance and File System Internals *,+	4	
ITS 274	Ethical Hacking and Network Defense *,+	3	
ITS 222	Enterprise Security *,+	3	

Suggested Electives

This class is highly recommended in addition to standard cybersecurity curriculum.

Course	Title	Credits	Grade/Sem
ITS 289	Professional Certification	1	
ITS 291	Special Topics *	1-9	
Any CSCI Course not included in this program.			
Any NTS Course not included in this program.			

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

Indicates prerequisites needed.

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