CIT - Network Support & Security

Associate of Applied Science Degree

Program Director: Cheryl Simpson

Program Faculty: Steven Robinett

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

The Computer Information Technology (CIT) Program prepares individuals to assume a role in computer support with skills and responsibilities in user support, hardware and software troubleshooting, basic system maintenance, and cybersecurity.

The Network Support & Security Degree prepares students for a career in supporting Local Area Networks (LAN) and Wide Area Networks (WAN) with a focus on the skills required to understand and manage the operation of a small and large computer network. The students will learn valuable technical skills to identify the security needs of an organization as well as be able to implement the appropriate protection and security of the system.

Upon completion of the Network Support & Security Degree, students will be able to successfully design, implement, manage and maintain effective network infrastructures; analyze data to determine security threats; and identify and prevent data threats and privacy invasion for both home and corporate clients as an entry level network technician/system administrator/system analyst/security analyst.

Outcomes

Graduates are prepared to:

- Utilize TCP/IP applications to prove their understanding of networking protocols used to control modern networking infrastructures.
- Develop an in-depth understanding of network security principles as well as the tools and configurations available within a network.
- Master the concepts of the theoretical OSI networking model.
- Secure network assets by exploring the mechanisms of ethical hacking and network defense.
- Create, secure, maintain, and troubleshoot both wired and wireless network infrastructures and infrastructure devices.
- Employ and master the skills needed to create, secure and maintain server based networks using both Microsoft Windows and open source Linux server systems.
- Develop and implement a logical troubleshooting, security, and maintenance system for Personal Computing systems.
- Prepare for networking support industry standard certifications such as: CCNA, CCNP, MCSA CompTIA Network+, CompTIA PenTest+, and CCNA Security

Estimated Cost Estimated Resident Program Cost*

Tuition and Fees	\$7,064
Lab Fees	\$650
Books/Supplies	\$1,443
Total	\$9,187

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 105	Computer Fluency +	3	
ITS 125	Fundamentals of Voice and Data Cabling +	3	
M 105	Contemporary Mathematics **,+	3	
NTS 104	CCNA1: Introduction to Networks *,+	3	
NTS 105	CCNA2: Routing and Switching *,+	3	
	Credits	15	
Spring			
ITS 210	Network Operating System - Desktop *,+	3	
NTS 206	CCNA 3: Enterprise Networking Security and Automation *,+	3	
ITS 280	Computer Repair and Maintenance *,+	4	
COMX 115	Introduction to Interpersonal Communication +	3	
Technical Ele	ctive	3	
	Credits	16	
Second Year Fall			
ITS 215	Network Operating Systems - Directory /Infrastructure *,+	4	
NTS 210	CCNP Enterprise: Core Networking 1 *,+	4	
NTS 211	CCNP Enterprise: Core Networking 2 *.+	4	
Select one of	the following:		
WRIT 101	College Writing I **,+	3	
WRIT 121	Intro to Technical Writing **, +	3	
	Credits	15	
Spring ITS 224	Introduction To Linux *+	4	

	Total Credits	64	
	Credits	18	
ITS 299	Capstone *,+	3	
ITS 298	Internship *,+	3	
Select one of	of the following:		
NTS 213	CCNP: Enterprise Advanced Services and Routing 2 *,+	4	
NTS 212	CCNP: Enterprise Advanced Services and Routing 1 *,+	4	
ITS 274	Ethical Hacking and Network Defense *,+	3	

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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.