Cybersecurity AAS

Overview
Associate of Applied Science Degree
Program Director: Steven Robinett
Program Faculty: Cheryl Simpson

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.

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 $6,900
Application Fee $30
Lab/Course Fees $735
Books/ Supplies $1,491
Total $9,156

* Fall 2020 MUS Student Health Insurance Premiums will be changing. Please check the Health Insurance website and/or Student Central for confirmed premium rates. Students will be charged an additional fee of $21 per credit for online/hybrid courses.

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 Title Credits Grade/Sem
First Year
Fall
CSCI 100 Intro to Programming * 3 __________
CSCI 105 Computer Fluency + 3 __________
ITS 164 Networking Fundamentals * 3 __________
M 121 College Algebra **,+ 3 __________
Choose one of the following:
WRIT 101 College Writing I **,+ 3 __________
WRIT 121 Intro to Technical Writing **,+ 3 __________
Credits 15

Spring
COMX 115 Intro to Interpersonal Communication * 3 __________
ITS 210 Network OS - Desktop * 3 __________
ITS 218 Network Security * 3 __________
ITS 224 Introduction To Linux * 4 __________
ITS 280 Computer Repair & Maintenance * 4 __________
Credits 17

Second Year
Fall
ITS 215 Network OS -Dir /Infrastructure * 4 __________
ITS 245 Exploring Computer Forensics + 3 __________
ITS 271 Securing Desktop/Mobile Device * 4 __________
ITS 275 Border/Perimeter Network Security * 4 __________
Credits 15

Spring
BGEN 220 Business Ethics and Social Responsibility * 3 __________
ITS 222 Enterprise Security + 3 __________
ITS 274 Ethical Hacking and Network Defense * 3 __________
ITS 277 Software Assurance and File System Internals * 4 __________
ITS 289 Professional Certification (Comp TIA A+) * 1 __________
ITS 299 Capstone * 3 __________
Credits 17

Total Credits 64

* Indicates prerequisites needed.
** Placement in course(s) is determined by placement assessment.
*** Technical Electives must be approved by program director.
+ A grade of C- or above is required for graduation.