



ASSOCIATE'S DEGREE IN

CYBER SECURITY

The Program delivers fundamental IT security principles and real-world applications, tools, and techniques used in today's entry-level job work force for careers in IT Security, Cyber-security, or Information Assurance.



PROGRAM OVERVIEW

The program allows students to master essential security functions through the use of virtual desktops in a secure lab environment, which offers innovative hands-on training with the most current computer security software. Students will learn core principles of networking, information systems security, risk management, security policy implementation, legal issues, auditing, access control, authentication strategies, security strategies specific to windows platforms, and applications. This program prepares students for entry-level positions as security analysts and similar positions and covers curriculum that will allow students to sit for industry-recognized certifications.

Gain In-Demand Skills Through Online Training!

COURSE LIST:

Fundamentals of Information Systems Security
 Practical Computer Applications
 Practical Computer Applications
 Managing Risk in Information Systems
 Security Policies and Implementation Issues
 Access Control, Authentication, and Public Key Infrastructure
 Security Strategies in Windows Platforms and Applications
 Security Strategies in Linux Platforms and Applications
 Network Security, Firewalls, and VPNs
 Security Strategies for Web Applications & Social Networking
 Wireless and Mobile Device Security
 Cyber Security Externship*
 Cyber Security Capstone**
 PC Hardware and Software
 PC Operating Systems
 Certification Preparation
 Networking Concepts I
 Networking Concepts II
 Security Concepts
 Interpersonal Communications
 Critical Thinking
 English Composition I
 College Mathematics
 Introduction to Psychology
 Environmental Science

Program Totals with Externship*

Program Totals with Capstone**

*Applicable to ground/hybrid delivery

**Applicable to distance education delivery

MMC does not guarantee third-party certification/licensure. Licensure requirements for taking and passing certification examinations are not controlled by MMC but by outside agencies and are subject to change by the agencies without notice to MMC. Therefore, MMC cannot guarantee that graduates will be eligible to take licensure examinations, regardless of their eligibility status upon enrollment. MMC cannot guarantee employment or salary. Licensed by the O.B.P.V.S.

CERTIFICATIONS/LICENSURES

Graduates of this program are eligible to sit for various CompTIA Certification exam opportunities.

POTENTIAL JOB RESPONSIBILITIES

- Identify and describe security threats and vulnerabilities to a network or information system. Explain and apply different strategies for securing networks or information systems.
- Evaluate a computer network and the information security needs of an organization. Differentiate security assessment techniques to find security vulnerabilities in a network.
- Describe basic principles of networking, including the OSI model and the TCP/IP model, along with the protocols and applications that function within these models.
- Examine the use of routers and switches to create a secure environment. Investigate how creating subnets, DMZs, and VLANs can be used to secure an environment.
- Examine wireless security mechanisms and the vulnerabilities and attacks they can mitigate. Describe and analyze the hardware, software, components of a network and their interrelationship.
- Assess cyber security risk management policies in order to adequately protect an organization's critical information and assets.
- Identify relevant laws and standards applicable to information systems security and computer crime. Assess security policy practices for windows and Linux platforms.

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