

CYBER AND HOMELAND SECURITY CERTIFICATE

Program code: CYHM-CC

Location: Capital, Naugatuck Valley, Tunxis

Program Description

The Cyber and Homeland Security certificate will introduce students to the field of cybersecurity, homeland security and computer crime deterrence. Courses are designed to offer exposure to computing and criminal justice allowing students to begin exploring positions in industry or advancement of career. This certificate will also provide a foundation for continuation in two-year associate degree in Cyber and Homeland Security Certificate or Computer Information Systems.

Learning Outcomes

1. Explain the landscape, key terms, challenges, and concepts related to the many layers of Homeland and cybersecurity.
2. Explain fundamental architectures of networks and demonstrate an understanding of network security.
3. Demonstrate an understanding of the legal and ethical issues and concepts associated with cybersecurity responsibilities.
4. Apply counter measures that would secure network systems against threats.
5. Identify and discuss career opportunities and the necessary skills that will increase the likelihood of success in the field of cyber and homeland security.
6. Preparedness to advance one's career, or move on to more advanced study in the same or related fields such as MIS or CIS.

Certificate Requirements

Code	Title	Credits
Required Courses		
CIS 1001 or CIS 1141	Introduction to Computers Introduction to Management Information Systems	3
CJS 1010	Introduction to Criminal Justice	3
CST 1221	Networking I	4
CYS 2111 or CJS 2350	Network Security Information Warfare and Security	3
Directed Elective		
Choose one of the following:		3
CJS 2350	Information Warfare and Security	
CYS 1101	Practices in Security Management	
CIS 1143	Project Management	
CIS 1104	Introduction to Operating Systems	
Total Credits		16

- Cyber and Homeland Security, AS
- Cybersecurity Certificate
- Cybersecurity: Computer Science, AS
- Cybersecurity: Networking, AS