

CYBER ENGINEERING, CERTIFICATE OF COMPLETION



COMPUTER AND INFORMATION TECHNOLOGY

Certificate of Completion: CCL 5149

42-46 Credits

Program Contact

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Program Description

The Certificate of Completion (CCL) in Cyber Engineering program is designed to focus on the necessary skills required to secure, protect and identify vulnerabilities in a network, including various operating systems and network devices. Emphasis is placed on developing the theoretical, legal, ethical and practical skills needed to maintain security on mission-critical networking and server systems. The program is designed to meet the training needs of government and industry employees. The program covers a variety of information security technologies and structured languages. The Cyber Engineering program also focuses on the skills needed for internationally recognized IT certifications and high demands in business, industry, and government. An Associate in Applied Science (AAS) in Cybersecurity is also available.

Program Notes

Students must earn a grade of "C" or better in all courses required within the program. Overall program minimum GPA = 2.00.

Courses within any of the following prefixes must be taken within five (5) years prior to completion of the program to be applied toward this award: AIM, BPC, CIS, CLD, CNT, CSC, ITS, and MST.

++ indicates any suffixed course may be selected.

Program Requirements

Program Prerequisites: None

Code	Title	Credits	Semester
Required Courses			
The following courses are required and included in the CCL in Cybersecurity Fundamentals			
Select one of the following:		3	
BPC270	A+ Exam Prep: Operating System Configuration and Support		
MST150++	Any Microsoft Windows course		
CIS105	Survey of Computer Information Systems	3	

CIS111	Ethics in Information Technology	3	
or ITS120	Legal, Ethical and Regulatory Issues		
CIS126DL	Linux Operating System	3	
or CIS126RH	Red Hat System Administration I		
CIS156	Python Programming: Level I	3	
CIS190	Introduction to Networking	3-4	
or CNT140AB	Introduction to Networks		
Select one of the following options:		3-6	
Option 1			
CIS270	Essentials of Network and Information Security		
Option 2			
CIS271DB	Information Security Essentials		
CIS272DB	Information Security Principles		
Option 3			
ITS110	Information Security Fundamentals		
ITS240	Ethical Hacking and Network Defense	3	
The following courses are required in the CCL in Cyber Engineering.			
Select one of the following:		3	
CIS119DO	Introduction to Oracle: SQL		
CIS276++	Any SQL Database course		
CIS162++	Any C Programming: Level I course	3	
CIS227	Assembly Language	3	
CIS238DL	Linux System Administration	3	
or CIS238RH	Red Hat System Administration II		
CIS250	Management of Information Systems	3	
CIS262++	Any C Programming: Level II course	3	
Total Credits		42-46	