

## **Cybersecurity Administration – Proficiency Award Narrative**

### **Program Goal and Objectives**

As students begin pursuing the cybersecurity AS degree, these security courses will provide the fundamental training to continue pursuing training in cyber security and employment in a cybersecurity related career.

The Program Learning Outcomes and program assessments are as follows:

- Demonstrate the ability to use technical resources to solve security related threats. The following is the program assessment: Given a security related lab scenario students will use the Internet to mitigate the security vulnerability.
- Demonstrate proficiency to solve common networking security problems using products or strategies learned in the classroom to design and implement a workable solution. The following is the program assessment: Given a security problem requiring troubleshooting use varied software tools to recommend a solution to the security vulnerability.
- Build and maintain secure networks that includes varied systems such as windows system, Linux system, and a website on the cloud. The following is the program assessment: Given a varied network topology and addressing scheme, students will configure and secure the network and provide appropriate logging and monitoring.

### **Catalog Description**

The Cybersecurity proficiency award prepares students for entry-level cyber security jobs. Students who complete the award will be able to secure networks by performing penetration testing, security audits, assist with investigations, and oversee security policies. Course choices include network security, Windows and Linux security, web security and protocols. Students completing this 12-unit award can continue obtaining cybersecurity professional certification.

The Program Learning Outcome are as follows:

- Demonstrate the ability to use technical resources to solve security related threats.
- Demonstrate proficiency to solve common networking security problems using products or strategies learned in the classroom to design and implement a workable solution.
- Build and maintain secure networks that includes varied systems such as windows system, linux system, and a website on the cloud.

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### Program Requirements

The course requirements for the Cybersecurity Administration Proficiency Award include the following courses.

Proficiency Award: Cybersecurity Administration

<b>Requirements</b>	<b>Dept. Name / #</b>	<b>Name</b>	<b>Units</b>	<b>Sequence</b>
Required Core: (Four courses)	CNSE M31	MS Windows Network Server	3	Yr. 1, Fall
	CNSE M84	Certified Ethical Hacker	3	Yr. 1, Fall
	CNSE M100	Cybersecurity Analysis	3	Yr. 1, Spring
	CNSE M56	Linux System Security Management	3	Yr. 1, Spring

Required Core Units: 12

TOTAL UNITS: 12

### Master Planning

The attached Labor Market Data shows great demand for cyber security training in Ventura, California, and across the United States. Our Ventura County region is sponsoring meetings discussing strategies to increase course offerings in our Region as soon as possible due to recent studies indicating very strong demand for cyber professionals. The attachments provide support for the need for local cybersecurity training. This low unit certificate will introduce students to Cybersecurity basics and spark their interest to continue obtaining additional training and certification.