

CAREER PATHWAYS

Cyber Warrior Pathway

Core Courses

CompTIA Security+ |
72 hours

Certified Ethical Hacker (CEH) |
72 hours

Certified Information Systems Security
Professional (CISSP) | 72 hours

**Total Cyber Warrior Pathway
Clock Hours | 216**

Contact Us

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Program Prerequisites

4 years of Cyber Security experience and a college degree or
5 years of Cyber Security experience without a college degree.



Program Goal

The Cyber Warrior (CW) Career Pathway is a very technical, 108 clock-hour program with a cohesive and progressive set of learning outcomes. This program positions the individual for entry to mid-level positions as a cybersecurity professional. The cyber warrior engages in cyber warfare using information technology to better secure a system. The CW searches for and eliminates vulnerabilities through ethical hacking before hackers with malicious intent find and exploit them. Successful graduates will learn security fundamentals and explore technical subjects such as incident response, threat hunting and penetration testing, cryptography, and software assurance. In addition, students will have the option to pursue industry-recognized certifications and applicable skills in cybersecurity.



Educational Objectives

The objective of this program is to empower students to become Cyber Warriors and combine the skills of an ethical hacker with the mindset of a security professional. Over the course of the program, the students will develop the following skills:

- Identify network risk, threat and vulnerability
- Secure computer networks and build on defense fundamentals
- Combat network security threats, vulnerabilities, and attacks
- Implement network security controls and protocols on multiple devices
- Design and implementation of network security policy
- Maintain both physical and host security

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Learning Outcomes

Upon completion of the Cyber Warrior Program, graduates will be able to:

- Utilize tools like WireShark, Nmap, Metasploit and Kali Linux for ethical hacking
- Perform network surveying and port scanning to uncover loopholes
- Conduct vulnerability research and verification to thwart attacks
- Secure configuration and management for VPN, Firewall, IDS and IPS
- Participate in Red Team for offense and Blue Team for defense cyber operations
- Execute essential security technologies – TCP/IP Firewalls and VPN
- Minimize the threat of external attacks and viruses with successful countermeasures
- Harden networks and operating systems

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Professional Objectives

- Cyber Operations Specialist
- Cyber Incident Responder
- Cyber Security Manager/Administrator
- Systems Engineer
- Cyber and IT Auditor
- Cyber Forensics Analyst
- Security Operations Center (SOC) Analyst
- Cyber Security Engineer
- Cyber Security Analyst
- Network Engineer/Architect



Core Courses

- ISA 1002 CompTIA Security+ | 72 hours
- ISA 1005 Certified Ethical Hacker (CEH) | 72 hours
- ISA 1006 Certified Information Systems Security Professional (CISSP) | 72 hours
- Total Cyber Warrior Pathway Clock Hours | 216

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State Council of
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