2023-2024 Assessment Plan
Cybersecurity, Virtualization, and Networking

Academic year 2023-2024

Cybersecurity, Virtualization, and Networking Learning Outcomes

Cybersecurity Fundamentals

Identify basic cybersecurity terminology, types of cybercrimes, and risk strategies.

MEASURES	RESULTS	ACTIONS
Course Grade We will measure the course grade for students who are still enrolled after the second week of school, because students who are not able to complete for various reasons. don't always withdraw or get dropped right away. Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Security Fundamentals: CVNP 2615* **Target** 60% of students will earn a C grade or better.	*No results have been added.*	*No actions have been added.*
Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Security Fundamentals: CVNP 2615* **Target** 70% of students will score a 70% or better.	*No results have been added.*	*No actions have been added.*

Networking Fundamentals

Demonstrate an understanding of NICs, identify different physical and logical characteristics of network connections, demonstrate configuration of routers and switches, demonstrate use of remote access, and understand all types of wired and wireless communications.

MEASURES	RESULTS	ACTIONS
Course Grade We will measure the course grade for students who are still enrolled after the second week of school, because students who are not able to complete for various reasons don't always withdraw or get dropped right away. Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Cisco 1: CVNP 1603* **Target** 60% of students will earn a C grade or better.	*No results have been added.*	*No actions have been added.*

Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Cisco 1: CVNP 1603* **Target** 70% of students will score a 70% or better on the Final Exam for Cisco 1.	*No results have been added.*	*No actions have been added.*

Computer and Peripheral Hardware

Demonstrate an understanding of the function and design of computer hardware components and associated peripheral devices, including support of computers and peripherals.

MEASURES	RESULTS	ACTIONS
Course Grade We will measure the course grade for students who are still enrolled after the second week of school, because students who are not able to complete for various reasons don't always withdraw or get dropped right away. Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Computer Hardware: CVNP 2626* **Target** 60% of students will earn a C grade or better.	*No results have been added.*	*No actions have been added.*
Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Computer Hardware: CVNP 2626* **Target** 70% of students will score a 70% or better.	*No results have been added.*	*No actions have been added.*

Desktop Operating Systems

Students will demonstrate understanding of Windows and Linux operating systems, including configuration and troubleshooting,

MEASURES	RESULTS	ACTIONS
Course Grade We will measure the course grade for students who are still enrolled after the second week of school, because students who are not able to complete for various reasons don't always withdraw or get dropped right away. Implementation Plan (timeline) Fall or Spring	*No results have been added.*	*No actions have been added.*

Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Supporting Windows Operating Systems: CVNP 1606* **Target** 60% of students will earn a C grade or better.		
Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Supporting Windows Operating Systems: CVNP 1606* **Target** 70% of students will score a 70% or better.	*No results have been added.*	*No actions have been added.*

Virtual and Cloud Computing

Demonstrate ability to create and manage virtual machines. Demonstrate ability to use Kubernetes to manage a cluster of containers. Troubleshoot and tune virtual machines for specific use cases.

MEASURES	RESULTS	ACTIONS
Course Grade Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Virtual Computing: CVNP 2601* **Target** 60% of students will earn a C grade or better.	*No results have been added.*	*No actions have been added.*
Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Virtual Computing: CVNP 2601* **Target** 70% of students will score 70% or better.	*No results have been added.*	*No actions have been added.*

Advanced Cybersecurity

This includes offensive security, defensive security and cyber forensics,and network based security controls and policies. Demonstrate ability to read logs, engineer detections in various cyber tools, collect and analyze endpoint data, and knowledge of the incident handling process

MEASURES	RESULTS	ACTIONS
Course Grade Implementation Plan (timeline) Fall or Spring	*No results have been added.*	*No actions have been added.*

Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Defensive Security: CVNP 2625* **Target** 60% of students will earn a C grade or better		
Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Defensive Security: CVNP 2625* **Target** 70% of students will score 70% or better.	*No results have been added.*	*No actions have been added.*

Linux Fundamentals

Demonstrate use of Linux command line and installing/configuring Linux systems.

MEASURES	RESULTS	ACTIONS
Course Grade We will measure the course grade for students who are still enrolled the after second week of school. Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Linux Administration: CVNP 1601* **Target** 60% of students will earn a C grade or better.	*No results have been added.*	*No actions have been added.*
Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Linux Administration: CVNP 1601* **Target** 70% of students will score a 70% or better.	*No results have been added.*	*No actions have been added.*

Python and Scripting

Demonstrate foundational knowledge of Python concepts. Create scripts to automate processes using Python. Leverage programming languages to script out repetitive tasks.

MEASURES	RESULTS	ACTIONS
Course Grade	*No results have been added.*	*No actions have been added.*

Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Python/JSON: CVNP 2646* **Target** 70% of students will earn a C grade or better.		
Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Python/JSON: CVNP 2646* **Target** 70% of students will score 70% or better.	*No results have been added.*	*No actions have been added.*

Network Systems Administration

Demonstrate ability to manage network level tools. Troubleshoot network based issues. Demonstrate knowledge of common network services and ports and protocols.

MEASURES	RESULTS	ACTIONS
Course Grade Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Indirect - Overall Course Grade *Advanced Network Operating System: CVNP 2603* **Target** 70% of students will earn a C grade or better.	*No results have been added.*	*No actions have been added.*
Final Exam - Written Implementation Plan (timeline) Fall or Spring Key/Responsible Personnel Cybersecurity Faculty Direct - Exam (Course) *Advanced Network Operating System: CVNP 2603* **Target** 70% of students will score 70% or better.	*No results have been added.*	*No actions have been added.*

Workplace Readiness

Students demonstrate the knowledge, skills, and abilities required to enter the workforce.

MEASURES	RESULTS	ACTIONS
Comprehensive CVN Program Exam	*No results have been added.*	*No actions have been added.*

Students will complete a comprehensive exam that covers objectives in the Cybersecurity, Virtualization and Networking program. This will occur in their last semester of the program.

Direct - Exam (Course)

Target

70% of students will score a 70% or better on the comprehensive program exam