Alexandria Technical and Community College

CVNP 1604: Networking Essentials

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 2
Lab Hours/Week: 2
OJT Hours/Week: *, *
Prerequisites: None
Corequisites: None
MnTC Goals: None

This course provides learners with a broad foundational understanding of networking. It is suitable for anyone interested in a career in Information and Communication Technology (ICT). The primary emphasis is on introductory networking knowledge. This course introduces basic skills that are useful for a home or a small office home office (SOHO) network. This course includes hands-on activities that expand on the course material presented. Required hardware: Windows-based PC required with the operating system Windows 10 or higher. Chromebooks or other Apple devices are not compatible. Required software: Office 365 or Office Professional 2019.

B. COURSE EFFECTIVE DATES: 01/26/2022 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Communications principles in a connected world.
2. Network devices and design principles.
3. Features of internet addressing schemes.
4. Modern internet and Local Area Network (LAN) connection types.
5. Network security considerations and threats.
6. Create, configure, and secure a simple network.

D. LEARNING OUTCOMES (General)

1. Demonstrate an understanding of ICT and describe the importance of standards and protocols.
2. Demonstrate an understanding of ICT by applying troubleshooting techniques to resolve basic network connectivity.
3. Explain how to deploy basic network security best practices to mitigate attacks.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted