

# Alexandria Technical and Community College

## CVNP 1601: Linux Administration

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces the student to the Linux operating system. Students learn by using both basic and intermediate commands to navigate the file system and to use applications within the operating system. Students learn to install, configure, and troubleshoot the operating system in an enterprise work environment that may contain a mixture of operating systems.

**B. COURSE EFFECTIVE DATES:** 05/19/2014 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Managing files and directories.
2. Creating and editing files.
3. Creating shell scripts and displaying file contents.
4. Managing data with backup and recovery processes.
5. Managing users and groups.
6. Network communications.
7. Installing software packages.
8. Configure Apache web server.
9. Configuring a mail server.
10. Working with network file systems.
11. Linux file system management and administration.
12. Using Session Message Block (Samba) for interoperating Linux and Windows.
13. Securing Linux.

### D. LEARNING OUTCOMES (General)

1. The learner will exhibit understanding of the Linux operating system commands and functions.
2. The learner will exhibit the support functions of other users (installing, configuring, troubleshooting problems) in a work environment, including keeping their own lab personal computer (PC) operating properly in a multi-platform, networked environment.
3. The learner will exhibit the ability to add users and hardware to the existing operating system.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted