

# Ridgewater College

## CST 2608: Linux Server 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 provides the core foundation for supporting the Linux operating system in a server environment. The goal of this course is to provide support professionals with the skills necessary to install, configure, customize, optimize, network, integrate, and troubleshoot Linux.

**B. COURSE EFFECTIVE DATES:** 08/24/2015 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Install Linux server.
2. Describe TCP/IP networking.
3. Install, configure, and use Dynamic Host Configuration Protocol (DHCP).
4. Perform server administration via remote methods.
5. Describe the Domain Name System (DNS).
6. Install, configure, and use the Berkely Internet Name Domain (BIND) system.
7. Describe the role of a file server and methods of sharing files.
8. Implement file sharing using the Common Internet File System (CIFS) with Samba.
9. Describe Linux/Windows integration.
10. Install, configure, and use web hosting services such as Web Server, SSL, and database.
11. Install, configure, and use FTP services.
12. Install, configure, and use eMail services.
13. Describe server security.
14. Explain the balance between security and convenience.
15. Describe the difference and dependencies between service and data security.
16. Monitor server and service health and performance.
17. Describe cloud computing, fault tolerance, rescue, recovery, and virtualization.
18. Upgrade a Linux server.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted