

**MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE  
COURSE OUTLINE**

**DEPT:** Computer Support Technology

**COURSE NO:** CST1135

**NUMBER OF CREDITS:** 3

**COURSE TITLE:** UNIX Operating System

**CATALOG DESCRIPTION:**

This course is designed to familiarize students with Unix-based operating systems. The student will use the Linux operating system for this course. Basic UNIX system concepts, architecture and administration are covered. Students have the opportunity to use fundamental UNIX commands, explore the UNIX file system, use text editors, process and manipulate files, and use the UNIX shell as a programming language.

**AUDIENCE:**

Computer Support Technology, Networking Specialist students and anyone interested in learning how to install, configure and use the Linux/UNIX operating system

**FULFILLS MN TRANSFER CURRICULUM AREA(S):** (

Does not apply.

**PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:**

CST1111 File Structures or demonstrate a knowledge of a command line interface.

**LENGTH OF COURSE:** 2 lecture hours and 2 lab hours per week for 16 weeks.

**THIS COURSE IS USUALLY OFFERED:**

Every other year  FallX Spring  Summer  undetermined

Four goals are emphasized in course at Minnesota West Community & Technical College:

- 1) **ACADEMIC CONTENT:** The student will achieve an entry level of knowledge and skill needed for computer support personnel.
- 2) **THINKING SKILLS:** The student will accurately issue commands to the computer using the Linux command line and acquire an understanding of each command.
- 3) **COMMUNICATIONS SKILLS:** The student will demonstrate appropriate communication techniques while working with fellow students to complete assignments.
- 4) **HUMAN DIVERSITY:** The student will gain self-awareness regarding their feelings towards people of different cultures, educational backgrounds, value systems and socioeconomic status.

**TOPICS TO BE COVERED:** Installation and configuration of the Linux operating system, use of text editors, database file creation, manipulation and processing, programming and Linux administration.

**LIST OF EXPECTED COURSE OUTCOMES:**

1. Install Linux operating systems
2. Explore UNIX utilities
3. Perform text editing functions with various text editors
4. Demonstrate directory commands
5. Demonstrate file commands
6. Explore UNIX shells
7. Perform network administration duties

**LEARNING/TEACHING TECHNIQUES** used in the course are:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Collaborative Learning | <input checked="" type="checkbox"/> Problem Solving     |
| <input type="checkbox"/> Student Presentations             | <input type="checkbox"/> Interactive Lectures           |
| <input type="checkbox"/> Creative Projects                 | <input checked="" type="checkbox"/> Individual Coaching |
| <input checked="" type="checkbox"/> Lecture                | <input checked="" type="checkbox"/> Films/Videos/Slides |
| <input checked="" type="checkbox"/> Demonstrations         | <input type="checkbox"/> Other (describe below)         |
| <input checked="" type="checkbox"/> Lab                    |   |

**ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:**

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Reading                                   | <input checked="" type="checkbox"/> Tests      | <input checked="" type="checkbox"/> Individual Projects    |
| <input type="checkbox"/> Oral Presentations                                   | <input checked="" type="checkbox"/> Worksheets | <input checked="" type="checkbox"/> Collaborative Projects |
| <input checked="" type="checkbox"/> Textbook Problems                         | <input type="checkbox"/> Papers                | <input type="checkbox"/> Portfolio                         |
| <input type="checkbox"/> Group Problems                                       | <input type="checkbox"/> Term Paper            |  |
| <input checked="" type="checkbox"/> Other (describe below)<br>Practical Tests |  |  |

**STUDENTS NEEDING ACCOMMODATIONS FOR A DISABILITY MUST NOTIFY THE INSTRUCTOR.**

To receive accommodations for a documented disability, please contact the campus Student Services Advisor as soon as possible. Students are also encouraged to notify his/her instructor.

**This document can be made available in alternative format by contacting Student Services, the Campus CEOs or calling Minnesota Relay Service at 1-800-627-3529. Reasonable accommodations will be provided upon request for documented disabilities. An Affirmative Action Equal Opportunity Educator/Employer. ADA Accessible.**

*The information in this course outline is subject to revision.*