

**LAKE AREA TECHNICAL INSTITUTE
COMPUTER INFORMATION SYSTEMS
SYLLABUS**

Course: CIS 160 – UNIX Operating System

Credits: 3

Course Description: In this course, you will take an in-depth look at UNIX and Linux. You will examine theoretical concepts common to both operating systems, and use a practical hands on approach to explore these systems.

Goals: The goals of the course are that you will be able to use a typical UNIX or Linux workstation. You should also be able to master the typical UNIX commands and the UNIX file system. With the advanced topics, you will also be able to develop your own shell script files to aid in simplifying common tasks by placing UNIX commands and decision routines into a UNIX shell script file, similar to that of a DOS batch file. Finally, you will explore UNIX utilities that can be used to aid in maintaining a UNIX system.

Course Objectives: Upon successful completion of the this course, you will be able to apply the UNIX command and file system concepts to not only UNIX systems alone, but a variety of systems that use the UNIX style interfaces to interact, control and customize their functions for a variety of applications.

Course Content: The course covers fundamental UNIX commands, file system structure and management, command script file development and UNIX utilities. Specifically, the following topics will be included:

1. Fundamental UNIX and basic commands.
2. Explore the typical UNIX system structure and setup.
3. Usage of UNIX available editors.
4. Develop file system management skills using basic UNIX file management commands.
5. Explore the UNIX shell and script files to assist in common daily tasks.
6. Learn about a wide variety of UNIX utilities readily available.
7. Installation of a standard Linux workstation.

Resources and Instructional Materials:

Textbook: *Interactive Linux Tutorial and Reference*, by Edutrends Inc., Addison-Wesley

Software: *Linux Made Easy CBT*, from the companion CD-ROM included in above textbook

Practice Assessment Program: Found on companion CD-ROM in the above textbook

Miscellaneous Supplies: 1 or 2 high-density (HD) 3 ½ inch diskettes for backup and storage of projects and exercises.

Grading: Chapter exercises and projects as assigned will be given a specific due date. All work must be completed by this date. Late assignments will be deducted 10% of total possible points per class day late, up to 5 days. Work later than 5 days past due will not be accepted and counted as zero points.

Grading scale:

A = 94% - 100%

B = 87% - 93%

C = 80% - 86%

Attendance: Attendance is mandatory. Any student absent more than 6 hours will cause an automatic drop slip to be filed. The student may request an appeal and should attend the regularly schedule class, until the outcome of their appeal is known. Accumulated tardiness or early exists from a class period may count as an hour absent.

Absence for school related activities such as conferences, seminars and field trips are not included in these 6 hours. Likewise, guard or jury duty will not count as absenteeism, you need to give advanced notification to your instructor before being absent to arrange for missed assignments.