Course Content Summary

Course Prefix and Number:  ITN 170  
Credits:  4

Course Title:  Linux System Administration

Course Description

Focuses on the installation, configuration, and administration of the Linux operating system and emphasizes the use of Linux as a network client and workstation. Prerequisite: ITN 171 or school approval. Lecture 4 hours per week.

General Course Purpose

The course will provide training for configuring and administering a Linux Server. The course will include the installation, configuration, troubleshooting, networking, Internet connectivity, security, and monitoring of a UNIX/Linux server.

Course Prerequisites/Co-requisites

ITN 171 or school approval

Course Objectives

Upon successful completion of the course, the student will be able to:
  a. install and configure Linux operating system
  b. deploy and test client and server services for peer sharing applications.
  c. demonstrate an understanding of device driver, memory, and peripheral configuration options.
  d. use operating system utilities and scheduling software to configure automatic and manual maintenance.
  e. implement security and data integrity measures such as firewalls and anti-virus.
  f. plan and maintain a network infrastructure.

Major topics to be Included

CONTENT:
  a. Install and Configure Linux Server
  b. Integrate technical skills to develop business solutions
  c. Gather, organize, and classify data in order to solve complex networking issues
  d. Develop network configuration to meet business needs
  e. Installation and configuration of networking protocols
  f. Monitor and Troubleshoot Linux Server
  g. Install and configure firewall

Course Effective Date:  9/24/2008