J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITN 170   Credits: 3

Course Title: Linux System Administration

Course Description : Focuses instruction on the installation, configuration, and administration of the Linux operating system and emphasizes the use of Linux as a network client and workstation. Lecture 3 hours per week.

General Course Purpose: Prepares students to manage Linux computers in a networked environment. Can lead to industry certification. Serves as either a requirement or elective for designated Information Systems Technology programs.

Course Prerequisites and Co   -requisites:
None

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Install common Linux distributions;
b. Automate the installation of Linux through the use of "kick start" scripts;
c. Modify and maintain system configuration files and startup scripts;
d. Install and maintain software applications;
e. Administer user and group accounts;
f. Configure and control hardware devices;
g. Integrate Linux as a client within an existing network;
h. Configure TCP/IP network parameters;
i. Configure client software;
j. Configure and use the X-Window system;
k. Perform basic troubleshooting;
l. Configure basic host security;
m. Compile and install a custom Linux kernel;
n. Describe and identify the run levels 0-6; and
o. Configure printing (local and network).

Major Topics to B e Included:
a.