North Hennepin Community College

CSCI 1180: Introduction to Linux Operating System

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces Linux, a popular open-source operating system and a variety of Unix. Topics include installing and using Linux, the architecture of Linux, using the command-line shell, the file system, common utilities (including text editors), and the basics of shell scripting. Hands-on work with Linux is a central part of this class. Some experience in computer programming is recommended.

B. COURSE EFFECTIVE DATES: 01/10/2011 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. The history of Unix and Linux
2. How to acquire and install Linux
3. Use of the Linux graphical user interface (GUI)
4. Common Linux applications
5. Fundamental Linux concepts
6. Organization and use of the Linux file system
7. Use of the command-line shell
8. Basic Linux utilities
9. Fundamentals of shell scripting
10. Brief Introduction to C Programming in Linux

D. LEARNING OUTCOMES (General)

1. Develop critical thinking skills applicable to general design of the operating systems. (NHCC ELOs 1, 2)
2. Effectively and appropriately use Linux and related tools, guided by knowledge of general Linux design principles. (NHCC ELOs 1, 2)
3. Employ appropriate techniques of shell scripting ¿a built-in programming mechanism found in Linux.(NHCC ELOs 1, 2)

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted