

Inver Hills Community College

ITC 1480: Linux Essentials

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Covers the fundamentals of the Linux operating system, command line interface, and essential open source software concepts. This course is designed for students new to Linux and takes a hands-on approach to exploring the day-to-day operation of a command line Linux system and is aligned to the LPIC Linux Essentials industry certification.

Course Note: Contact department or instructor about how to complete free pre-requisite 8-hour self-study course before beginning this course.

B. COURSE EFFECTIVE DATES: 01/11/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Intro to Linux, Open Source, and Licensing 12%
 - Getting Started with Linux, and Basic Command Line Skills 13%
 - Getting Help within Linux 6%
 - Working with Files, Directories, Archiving, and Compression 13%
 - Pipes, Redirection, Regular Expressions, and Basic Scripting 13%
 - Understanding Hardware, and Managing Packages and Processes 12%
 - Network Configuration, and System and User Security 12%
 - Managing User, Groups, and File Ownership and Permissions 13%
 - Special Permissions, Links, and File Locations 6%

D. LEARNING OUTCOMES (General)

1. Students will:
 - Understand Linux as an operating system
 - Explain some of the considerations for choosing an operating system
 - Understand some of the basics of open source software and licensing
 - Acquire basic knowledge of working with Linux
 - Demonstrate basic Linux command line skills
 - Demonstrate how to use help commands and navigate help systems when using Linux
 - Demonstrate how to work with Linux files and directories
 - Search and extract data from Linux files
 - Understand the basic concept of scripting
 - Describe the components of desktop and server computers
2. Describe where data is stored on a Linux system
 - Query vital network settings for a Linux computer on a Local Area Network
 - Identify various types of users on a Linux system
 - Create users and groups on a Linux system
 - Manage Linux file permissions and ownership
 - Understand special Linux directories and files
 - Practice business soft skills including written, active listening, and oral presentation.
 - Document evidence of business skill practice in an electronic portfolio.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted