

SYLLABUS
PART I
EDISON COMMUNITY COLLEGE
CIT 212S INTRODUCTION TO LINUX
3 CREDIT HOURS

COURSE DESCRIPTION

An in-depth course in the LINUX operating system. Taking a hands-on practical approach, this course guides the student through the basics of LINUX concepts, architecture, and administration. Students will use a combination of text readings, lectures, homework questions and hands-on lab problems and practical exercises to practice and master skills which include Using LINUX commands, shell programming, database management, text editing and utilities. Students will also be introduced to Perl, CGI, C/C++ programming, as well as the Xwindows session. Prerequisite: CIT 211S. Lab fee.

COURSE GOALS

The student will:

1. Continue to use and expand the usage of commands and skills mastered in CIT 211S as they relate to the LINUX environment and XWindow Interface, as well as use and master additional commands.
2. Develop in-depth, working knowledge of the LINUX operating systems.
3. Explain and be able to use shell scripting techniques.
4. Organize data on a computer system using files, subdirectories, and directories.
5. Use the LINUX, Perl, CGI, and C/C++ programming capabilities of the LINUX operating system.

CORE VALUES

The Core Values are a set of principles which guide in creating educational programs and environments at Edison. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

TOPIC OUTLINE

1. Introduction to LINUX
2. Exploring the LINUX file system
3. LINUX editors
4. LINUX file processing
5. Shell programming
6. LINUX utilities
7. Developing LINUX applications in C and C++
8. LINUX graphic user interface