

# **ITCT 116**-LINUX+ 3 CREDITS

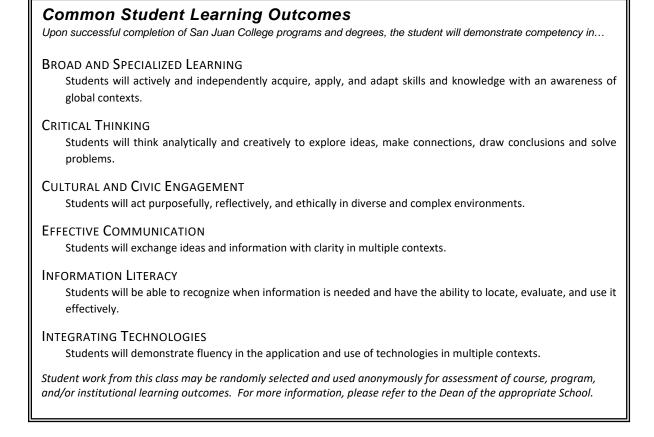
## **SYLLABUS**

### CATALOG DESCRIPTION

An introduction to the Linux operating system. A study of basic installation, operation, administration and troubleshooting services for the Linux operating system on workstations and servers. May be used as preparation for an industry certification exam.

Prerequisites: ITCT 111 or (ITCT 113 or ITCT 114)

Semester Offered: Spring



#### **Course Learning Outcomes**

Upon successful completion of the course, the student will be able to...

#### 1. Shells, Scripting and Data Management

1.1. Customize and use the shell environment.

- 1.2. Customize or write simple scripts.
- 1.3. SQL data management

#### 2. User Interfaces and Desktops

- 2.1. Install and configure X11.
- 2.2. Setup a display manager.
- 2.3. Accessibility

#### 3. Administrative Tasks

- 3.1. Manage user and group accounts and related system files.
- 3.2. Automate system administration tasks by scheduling jobs.
- 3.3. Localization and internationalization.

#### 4. Essential System Services

- 4.1. Maintain system time.
- 4.2. System logging
- 4.3. Mail Transfer Agent (MTA) basics.
- 4.4. Manage printers and printing.

#### 5. Networking Fundamentals

- 5.1. Fundamentals of internet protocols.
- 5.2. Basic network configuration
- 5.3. Basic network troubleshooting.
- 5.4. Configure client side DNS.
- 6. Security
  - 6.1. Perform security administration tasks.
  - 6.2. Setup host security.
  - 6.3. Securing data with encryption.