SAN JUAN COLLEGE
Success Matters

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: On Demand

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in…

Broad and Specialized Learning

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

Critical Thinking

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

Cultural and Civic Engagement

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

Effective Communication

Students will exchange ideas and information with clarity in multiple contexts.

Information Literacy

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

Integrating Technologies

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

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.

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Updated 12/14/18

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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.

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