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CSTP 2201: Linux Operating System and Networking

EFFECTIVE DATE

September 2019

DEPARTMENT

Computer Systems Tech Diploma

DESCRIPTION

This is a course for familiarizing students with Linux Operating System in detail. Students will learn to work with both the command line and graphical interfaces of the Linux operating system. In addition students will learn about the file system, shell programming, and system and network administration. Special emphasis will be placed on learning about Linux networking and telecommunication.

CREDITS

3.0

YEAR OF STUDY

2nd Year Post-secondary

PREREQUISITES

CSTP 1104 Computer Systems Administration

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Demonstrate competency in using Linux in both command Line and Graphical User Interface (GUI) mode
- Describe the Linux File System
- Perform administrative tasks with a scripting language
- Perform system administration
- Perform network administration
- Manage a network
- Manage Web content servers
- Perform socket-based communications
- Configure interoperability between Linux and Windows networks

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 30

Lab: 30

INSTRUCTIONAL STRATEGIES

Instructional strategies include classroom lectures, demonstrations, group discussions, computer lab and hands-on practical work.

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

C

EVALUATION PLAN

Type	Percentage	Assessment activity
Assignments	50	
Midterm Exam	25	
Final Exam	25	

COURSE TOPICS

- Competency in using Linux in both Command Line and GUI mode

- The Linux File System
- Scripting Language
- Basic System Administration
- Basic Network Administration
- Network management
- Web Content Servers
- Socket-based communications
- Linux and Windows Networks

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

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