



CSTP 1104: Computer Systems Administration

EFFECTIVE DATE

September 2019

DEPARTMENT

Computer Systems Tech Diploma

DESCRIPTION

This course introduces students to the computer (PC) as a system, both hardware and software. Students learn PC hardware and peripheral components: their role, how to connect, install, configure, and troubleshoot issues. This also includes basic safety and operational procedures. For software, students will gain knowledge of the fundamentals of Operating Systems (OS). They will acquire the skills needed to install and configure desktop computers and other devices in a business environment. Topics include OS architecture, file and disk management, BIOS and UEFI, multi-boot, virtual machines, software installation/removal, performance tuning, backing up and protecting data, and troubleshooting. The basics of networking, security, virus protection, and firewalls are also covered. Students will be introduced to the basics of other major OS such as Linux and Apple's iOS. Theoretical knowledge will cover the Microsoft 70-698 Installing and Configuring Windows 10 course.

CREDITS

5.0

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

Admission to the Computer Systems Technology diploma program

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Install and configure Computer components and peripherals
- Practice the maintenance of hardware
- Explain the fundamentals of Operating Systems in general
- Plan and install an operating system

- Configure an operating system
- Performance tune a Windows computer
- Configure storage and data access
- Install and configure a Virtual Machine
- Configure security settings
- Perform file and disk management
- Setup multi-boot system
- Configure a Linux desktop operating system
- Configure an Apple desktop operating system
- Use Windows System Restore capabilities to recover the Windows OS
- Customize BIOS and UEFI settings
- Use Windows PowerShell for basic PC management operations
- Start, stop, and disable Windows services
- Manage the PC using the Windows Control Panel

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 50

Lab: 50

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
Lab Work	40	4 assignments in form of lab work, each 10%
Midterm Exam	30	A mixture of Microsoft test questions and OS setup work, to be done in lab.

Final Exam	30	A mixture of Microsoft test questions and OS setup work, to be done in lab.
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COURSE TOPICS

- Computer hardware components
- Operational and Safety procedures
- Operating system
- Operation system configuration
- Storage and data access
- Application management
- Security setting
- Linux desktop operating system
- Apple desktop operating system
- Computer network and firewall configuration

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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Generated at: 6:29 pm on Apr. 10, 2021