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CSTP 1202: Introduction to Data Communication and Networking

EFFECTIVE DATE

September 2019

DEPARTMENT

Computer Systems Tech Diploma

DESCRIPTION

In this course learners will study the fundamentals of computer networking, protocols, components, major networking technologies and systems of modern networks, and will be able to configure, manage, and troubleshoot modern networks. The topics include TCP/IP protocol suite, multiplexing/switching techniques, basic error detection and correction, elementary data link protocols, flow control and an introduction to routing and congestion control issues, multiple access protocols, networking and inter-networking devices, LANs and WANs. This course presents content required in the objectives of the CompTIA Network+ certification exam. Basics of Cloud computing and network security will be presented as well.

CREDITS

3.0

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

CSTP 1104 Computer System Administration

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Describe computer networks and network media
- Identify major types of network implementations
- Configure the TCP/IP protocol
- Identify major TCP/IP services
- Describe WAN infrastructures
- Identify components of cloud computing and virtualization

- Describe methods of preventing security breaches
- Identify components of remote networking
- Identify methods of network management

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 20

Lab: 40

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	15	
Lab Work	20	
Midterm Exam	30	
Final Exam	30	
Participation	5	

COURSE TOPICS

- Computer networks and media
- Network implementations

- TCP/IP protocol and services
- WAN infrastructures
- Remote networking
- Network management and troubleshooting

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>.

Broadway campus

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Downtown campus

250 West Pender Street
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