





# BROWARD COMMUNITY COLLEGE

## COURSE OUTLINE

### **EVALUATION:**

Please provide a brief description (250 characters maximum) that details how students will be assessed on the course outcomes.

**Evaluation instruments will include written and/or skills-based examinations and individual in-class and/or take-home assignments. Evaluation methods may also include group in-class and/or take-home assignments.**



# BROWARD COMMUNITY COLLEGE

## COURSE OUTLINE

**Common Course Number: CET1620C**

### UNITS

#### Unit 1

##### **General Outcome:**

- 1.0 The student shall: learn about various WAN technologies**

##### **Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 1.1 Chapter Introduction
- 1.2 Providing Integrated Services to the Enterprise
- 1.3 WAN Technology Concepts
- 1.4 WAN Connection Options
- 1.5 Chapter Labs
- 1.6 Chapter Summary
- 1.7 Chapter Quiz



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### Unit 2

#### General Outcome:

**2.0 The student shall: learn how to configure and maintain PPP connections**

#### Specific Measurable Learning Outcomes:

**Upon successful completion of this unit, the student shall be able to:**

- 2.1 Chapter Introduction
- 2.2 Serial Point-to-Point Links
- 2.3 PPP Concepts
- 2.4 Configuring PPP
- 2.5 Configuring PPP with Authentication
- 2.6 Chapter Labs
- 2.7 Chapter Summary
- 2.8 Chapter Quiz



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### Unit 3

#### General Outcome:

**3.0 The student shall: learn how to configure and maintain Frame Relay**

#### Specific Measurable Learning Outcomes:

**Upon successful completion of this unit, the student shall be able to:**

- 3.1 Chapter Introduction
- 3.2 Basic Frame Relay Concepts
- 3.3 Configuring Frame Relay
- 3.4 Advanced Frame Relay Concepts
- 3.5 Configuring Advanced Frame Relay
- 3.6 Chapter Labs
- 3.7 Chapter Summary
- 3.8 Chapter Quiz



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### Unit 4

#### General Outcome:

**4.0 The student shall: introduced to basic security concepts**

#### Specific Measurable Learning Outcomes:

**Upon successful completion of this unit, the student shall be able to:**

- 4.1 Chapter Introduction
- 4.2 Introduction to Network Security
- 4.3 Securing Cisco Routers
- 4.4 Secure Router Network Services
- 4.5 Using Cisco SDM
- 4.6 Secure Router Management
- 4.7 Chapter Labs
- 4.8 Chapter Summary
- 4.9 Chapter Quiz



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## COURSE OUTLINE

Common Course Number: CET1620C

### Unit 5

#### General Outcome:

**5.0 The student shall: learn how to configure and maintain Access Control Lists**

#### Specific Measurable Learning Outcomes:

**Upon successful completion of this unit, the student shall be able to:**

- 5.1 Chapter Introduction
- 5.2 Using ACLs to Secure Networks
- 5.3 Configuring Standard ACLS
- 5.4 Configuring Extended ACLS
- 5.5 Configuring Complex ACLs
- 5.6 Chapter Labs
- 5.7 Chapter Summary
- 5.8 Chapter Quiz



# BROWARD COMMUNITY COLLEGE

## COURSE OUTLINE

Common Course Number: CET1620C

### Unit 6

#### General Outcome:

**6.0 The student shall: how to configure and maintain remote access technologies**

#### Specific Measurable Learning Outcomes:

**Upon successful completion of this unit, the student shall be able to:**

- 6.1 Chapter Introduction
- 6.2 Business Requirement for Teleworker Services
- 6.3 Broadband Services
- 6.4 VPN Technology
- 6.5 Chapter Summary
- 6.6 Chapter Quiz



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## COURSE OUTLINE

Common Course Number: CET1620C

### Unit 7

#### General Outcome:

- 7.0 The student shall: learn how to configure and maintain DHCP and NAT protocols on a Cisco Routers**

#### Specific Measurable Learning Outcomes:

**Upon successful completion of this unit, the student shall be able to:**

- 7.1 Chapter Introduction
- 7.2 DHCP
- 7.3 Scaling Networkings with NAT
- 7.4 IPv6
- 7.5 Chapter Labs
- 7.6 Chapter Summary
- 7.7 Chapter Quiz



# BROWARD COMMUNITY COLLEGE

## COURSE OUTLINE

Common Course Number: CET1620C

### Unit 8

#### General Outcome:

- 8.0 The student shall: learn how to monitor and troubleshoot networks based on Cisco technologies**

#### Specific Measurable Learning Outcomes:

**Upon successful completion of this unit, the student shall be able to:**

- 8.1 Chapter Introduction
- 8.2 Establishing the Network Performance Baseline
- 8.3 Troubleshooting Methodologies and Tools
- 8.4 Common WAN Implementation Issues
- 8.5 Network Troubleshooting
- 8.6 Chapter Labs
- 8.7 Chapter Summary
- 8.8 Chapter Quiz