

Routing and Switching (Cisco) Certificate of Achievement - Active

Department: Computer Networking & Information Technology

Approval: September 2016

Effective Semester: Fall 2017

This certificate includes instruction and practice in the theory, design, configuration, and operation of simple Local and Wide Area Networks. Students completing this certificate program will be qualified for employment in entry-level positions in network administration and be able to prepare for the Cisco Certified Entry Networking Technician (CCENT) and the Cisco Certified Network Associate (CCNA) certification exam.

Learning Outcomes

Upon completion of this program, students will be able to:

- Compare and contrast the OSI and TCP/IP networking models and their related protocols
- Explain the importance of addressing and naming schemes of various layers of data
- Compare and configure various internal routing protocols
- Analyze, configure and troubleshoot switch configurations including LANs and VLANs
- Describe and configure a variety of WAN protocols in routers
- Define basic network security issues and possible solutions

Students must complete each course with a grade of "C" or higher.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Routing and Switching (Cisco)

Course	Units
Required courses:	
CNIT 103 - Computer Hardware	3.00
CNIT 201C - Introduction to Cisco Networks	3.00
CNIT 202C - Routing and Switching Essentials	3.00
CNIT 203C - Scaling Networks	3.00
CNIT 204C - Connecting Networks	3.00
CNIT 120 - Network Security	3.00
CNIT 411 - Administering Windows Server	3.00
Total:	21.00
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