

Date Adopted: August 2015
Date Reviewed: August 2015
Date Revised:

CIS 272 CISCO CCNA III

I. CIS 272 CISCO CCNA III – 3 Semester Hours

II. Course Description

This course is the third part of a four part curriculum leading to Cisco Certified Network Associate (CCNA) certification. The content of this course is based on current requirements from the Cisco Networking Academy certification standards. Students will comprehend foundational knowledge in obtain a solid background in basic Cisco networking concepts. Students are first introduced to theory-based concepts, which are followed-up with practical hands-on labs.

III. Prerequisite

CIS 271 Cisco CCNA II

IV. Textbook

Textbook: Cisco CCNA ICND2 200-101 Academic Edition

Publisher: Cisco Press

Author: Odem, Wendell

V. Course Objectives

1. Explain LAN Switching
2. IPv4 Routing
3. IPv4 Routing Protocols

VI. Course Outline of Topics

1. Explain LAN Switching
 - a. Spanning tree protocol concepts
 - b. Spanning tree protocol implementation
 - c. Troubleshooting LAN switching
2. IPv4 Routing
 - a. Troubleshooting IPv4 routing
 - b. Creating redundant first-hop routers
 - c. Virtual private networks
3. IPv4 Routing Protocols
 - a. Implementing OSPF for IPv4
 - b. Understanding EIGRP concepts
 - c. Implementing EIGRP for IPv4
 - d. Troubleshooting IPv4 routing protocols

VII. Evaluation and Assessment

Evaluation and assessment will be determined by the instructor and specified on the instructor's class syllabus. Grades will be based upon following scale: A = 90 – 100%, B

= 80 – 89%, C = 70 – 79%, D = 60 – 69%, and F = below 60%.

VIII. Attendance

Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from that class before poor attendance interferes with the student's ability to achieve the objectives required in the course. Withdrawal from class can affect eligibility for federal financial aid.

IX. Statement on Discrimination/Harassment

The College and the Alabama State Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Such harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment or discrimination will not be tolerated.

X. Americans with Disabilities

The Rehabilitation Act of 1973 (Section 504) and the Americans with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. The ADA Accommodations Office is in FSC 305 (205-856-7731).