



CIS 2165

Division: Career and Technical Education

Department: Computer Information Systems

Course: CIS 2165

Title: Cisco Internetworking Lab II

Catalog Description:

This lab is designed to compliment CIS 2162 Internetworking III and IV, and must be taken concurrently.

General Education Requirements: N/A

Semesters Offered: TBA

Credit/Time Requirement: Credit: 1; Lecture: 0; Lab: 2

Clock/Hour Requirements: 30

Offered for Non-Credit: No

Prerequisites: CIS 2152

Corequisites: CIS 2162

Justification:

This course will provide needed laboratory experience for students taking CIS 2162 Cisco Internetworking III & IV, which is the second of two courses which will prepare a student to take the Cisco Certified Network Associate (CCNA) certification exam.

Student Learning Outcomes:

This course will provide students with controlled opportunities to develop skills associated with CIS 2162 Cisco Internetworking III and IV.

Content:

Course objectives will be accomplished by providing students with learning experiences in the following subject areas:

- review - the OSI model, routing, and IOS update
- LAN switching
- VLANs
- LAN design
- routing protocols: IGRP
- access control lists (ACLs)
- Novell IPX
- WAN design
- Point-to-Point protocol
- integrated services digital network (ISDN)
- frame relay

- network management.

General Education Outcomes:

1) Read effectively, constructively, and critically.

Students will be required to read from the assigned text, reference manuals, and industry journals to retrieve, analyze, and synthesize information into design, repair, and troubleshooting situations.

4) Retrieve, evaluate, interpret, and deliver information through a variety of traditional and electronic media.

Students will research technical issues through the internet, industry journals, and reference manuals.

6) Apply computational skills to a variety of contexts.

Students will be required to utilize the binary, hexadecimal, and base-10 numbering systems in situations such as network addressing and screen display colors.

Key Performance Indicators:

In class:

- Student grades will be based on a combination of lab exercises (5-25%), quizzes (5-25%), tests (10-50%), and a final exam or project (20-50%).

Following class:

- Post evaluation will be measured by success in subsequent classes and by successful completion of the CCNA certification exam.

Representative Text and/or Supplies:

- *Cisco Networking Academy Program: Lab Companion Volume II*, current edition, or other equivalent text.

Optimum Class Size: 12

Maximum Class Size: 16

Signatures:

I hereby submit this course syllabus:

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I hereby find this course consistent with the goals and resources of the Computer Information Systems Department:

Michael P. Medley, MBA, Assistant Professor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)