SADDLEBACK COLLEGE
BUSINESS SCIENCE DIVISION
COURSE SYLLABUS
CIM-297 INTERCONNECTING CISCO NETWORK DEVICES

Instructor: Steve J. Korper  
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Semester: Fall 2009
Ticket No: 23105
Time & Day: 7:00-9:50pm Th
Room: BGS-233

COURSE DESCRIPTION:
Interconnecting Cisco Network Devices (ICND) includes both routing and switching concepts, covering both Layer 2 and Layer 3 technologies. Focuses on using Cisco Catalyst switches and Cisco routers connected in local area networks (LANs) and wide area networks (WANs) typically found at small to medium network sites. Upon completion of this course, students will be able to select, connect, configure, and troubleshoot the various Cisco networking devices.

COURSE OBJECTIVES:
Upon completion of this course, the student will be able to:
1. Use the available configuration tools to establish connectivity to the appropriate network device in order to complete the initial device configuration.
2. Execute an Add, Move, or Change so that the network functions in accordance with the new requirement, given a new network requirement.
3. Use the command-line interface to accurately determine network operational status and network performance.
4. Build a functional access switch configuration to support the specified network operational parameters, given a network design.
5. Use Cisco IOS commands to configure VLANs, VTP, IEEE 802.1Q trunking, and ISL trunking, given a functioning access layer switch.
6. Use show and debug commands to identify anomalies in VLAN, VTP, ISL trunking, and Spanning-Tree operation, given an operational access layer switch.
7. Describe the features and operation of static and dynamic routing, including RIP, IGRP, EIGRP, and OSPF.
8. Use show and debug commands to identify anomalies in routing operation, given an operational access layer switch.
9. Use Cisco IOS commands to configure standard and extended access lists, given a functioning router.
10. Use Cisco IOS commands to configure serial interfaces using HDLC and PPP encapsulation for leased line connections, given a functioning router.

STUDENT RESOURCES:
Text: Cisco CCNA Lab Activities, All-American Publishing, #09726-5181-0

ASSIGNMENTS AND TESTS:
Reading assignments are required each week. There will be a total of ten (10) quizzes, one (1) midterm and one (1) final exam. All testing will consist of a combination of multiple choice, fill-in, true/false, short-answer and performance tests. Quizzes CANNOT be made up.

POLICIES AND PROCEDURES:
Final grades will be determined on an exact percentage scale; there will be no deviation from this scale.
90-100% = A 50%-Quizzes
80-89% = B 25%-Midterm Examination
70-79% = C 25%-Final Examination
60-69% = D
Below 60% = F

Final grade percentage is determined through a weighted average of quizzes, homework, and tests. Students having the course CREDIT/NO CREDIT must receive 70% or above for CREDIT. It is the STUDENTS RESPONSIBILITY to officially withdraw (DROP) from the class. Students who no longer attend class but do not withdraw will receive a failing grade (F) at semester’s end.