



CPC 172: CCNA3-Switching Basics & Intermediate Routing



Catalog Number: CPC 172

CCNA3: Switching Basics & Intermediate Routing

Credits: 5

Textbooks: Discount Pack consisting of: CCNA 3 and 4 Companion Guide, CCNA 3 & 4 Lab Companion, CCNA 3 & 4 Engineering Journal and Workbook - Third Editions *Cisco Press* ©2003 ISBN 1-13121-712-7

Catalog Description: Third course in 4-course sequence to prepare for Cisco Certified Network Administrator certification. Learn the concepts and how to configure advanced routing protocols like OSPF and EIGRP. Learn switching concepts and how to configure switches and VLANs. Learn about classless routing and the spanning tree protocol. Combination of hands-on labs, lectures, and demonstrations.

Prerequisites or Corequisites: CPC171

Course Objectives: The student will be able to: 1) Describe classless routing, 2) Configure advanced routing protocols like OSPF and EIGRP 3) Describe switching concepts and perform basic switch configuration 4) Describe the spanning-tree protocol, and 5) Describe and configure virtual labs and VLAN trunking protocols.

Attendance Policy (from the Student Handbook): The student is considered excessively absent when he/she has missed more times than the credit value of the class (6 hours). Discontinued attendance of class without securing a "drop" form does not constitute an official drop, and may result in receiving a grade of 'F'. It is each student's responsibility to officially withdraw from the class if that becomes necessary.

Course Requirements

1. Weekly attendance is required.
2. Students should have reviewed the On Line curriculum prior to class each week.
3. The Engineering Journal & Lab Manual must be filled out and submitted on the last day of class
4. All lab equipment must be treated with care!

Dropping Out of the Course or Changing Between Audit and Credit: If for some reason you decided to discontinue class attendance, please take a few minutes to fill out the proper form to officially drop the course. If you do not, then I will be forced to give you a grade of F which goes on your record. Check with Admissions for the last day you may drop the course and receive a W for withdrawal and the last day to change between audit and credit.


Students With Special Needs: We all have channels through which we learn best. The College has an Office of Accessibility Services that guides, counsels, and assists students with disabilities. It is located in Room 1206 of the Academic/Administration building. It is your responsibility to discuss with the instructor during the first week of class anything needed to help you succeed. If you have special needs, please call Pam Bova (636-922-8247) in the Office of Accessibility Services so that your eligibility for services can be determined.

Class Policies: Do not install any software on the computers in the classroom or the lab. Do not copy any software from any of the computers in the classroom or the lab. Do not change the desktop or any of the default configurations of the computer unless it is part of a lab exercise. Any misuse of the equipment or unprofessional conduct will not be tolerated. **Routers and Switches:** Erase all startup-config files when finished. Make sure configuration register is set to 0x2102. Disconnect all serial & Ethernet cables unless otherwise instructed by the instructor. Clean-up when finished, including putting cables back where they belong. Do not erase or modify flash memory. Use *class* for privileged passwords (enable secret) and *cisco* for all other passwords. You are responsible for your router pod. All equipment within your pod is to be cleaned up and prepped for the next class.

Grading Policy

There will be exams for each module and a final exam taken online on Cisco's website. Also, there will be a skills-based exam at the end of the course. Your final grade will be based on the following and applied to the grading scale on the right:

Average of Chapter exams	20%	90-100%	A
Final exam	10%	80-89%	B
Skills-based exam	25%	70-79%	C
Lab manual	25%	60-69%	D
Engineering Journal	10%	Below 60%	F
Case Study	10%		

 TENTATIVE TIME TABLE CPC 172: CCNA3-Switching Basics and Intermediate Routing				
Date		Module	Exam	Topics To Be Covered
	Tuesdays			
1	1/13	1	-	Introduction to Classless Routing
2	1/20	2		Single Area OSPF
3	1/27	3		EIGRP
4	2/3	4 5 6		Switching Concepts Switches Switch Configuration
5	2/10	7 8		Spanning Tree Protocol Virtual LANs
6	2/17	9		VLAN Trunking Protocol
7	2/24	CS		Case Study
8	3/2	-		On Line Final Exam & Skills-based exam , Course Feedback, Lab Journal, Engineering Journal and Workbook due