



CPC 171: CCNA2-Routers & Routing Basics



Catalog Number: CPC 171 - CCNA2-Routing and Routing Basics Credits: 5 Prerequisite: CPC 170

Required textbooks: [CCNA 1 and 2 Lab Companion, Revised \(Cisco Networking Academy Program\), 3rd Edition](#) by [Cisco Systems, Inc.](#) ISBN: 1587131498 and [CCNA 1 and 2 Engineering Journal and Workbook, Revised \(Cisco Networking Academy Program\), 3rd Edition](#) by [Cisco Systems, Inc.](#) ISBN: 158713151X Combo package ISBN: 0131530291

Optional textbook: [CCNA 1 and 2 Companion Guide \(Cisco Networking Academy Program\), 3rd Edition](#) by [Cisco Systems, Inc.](#), [Cisco Networking Academy Program](#) ISBN:1-25713-110-2

Catalog Description: Second course in 4-course sequence to prepare for Cisco Certified Network Administrator certification. Learn how to configure routers and how to manage the IOS software. Learn about distance vector and link state routing protocols. TCP/IP suite error and control messages and basic router troubleshooting. Set up access control lists. Combination of hands-on labs, lectures, and demonstrations. For more information visit www.stchas.edu/networking.

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.

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 or for 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.

Policy on Exams: Module exams should be completed prior to the next class meeting after the lecture on that module. The On Line exam and the skills-based exam must be completed on the last day of class. Exam results are provided immediately after completion of the exam. Exams must be taken on schedule. Makeup exams will be at the discretion of the instructor.

Course Requirements


1. Weekly attendance is required.
2. Students should review the On Line curriculum prior to class each week
3. Module assessment exams must be completed.
4. The On Line Final Exam must be completed.
5. The Engineering Journal must be filled out.
6. The Lab Journal must be filled out.
7. Course Feedback must be completed.
8. The Skills-Based exam on the last day of class is a requirement.
9. All lab equipment must be treated with care! Check-in and check-out procedures must be followed.

Course Objectives: The student will be able to...

- Describe the basics of the command line interface of the Cisco Internetworking Operating System
- Identify the components of a router
- Describe router startup and setup
- Configure basic settings on routers
- Describe routing protocols
- Design basic networks

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

 TENTATIVE TIME TABLE CPC 171 - CCNA2:Routers and Routing Basics		
Week	Chapter	Topics To Be Covered
1	1 -	WANs and Routers Equipment Orientation
2	2 3	Introduction to Routers Configuring a Router
3	4 5	Learning about Other Devices Managing Cisco IOS Software
4	6 7	Routing and Routing Protocols Distance Vector Routing Protocols
5	8 9	TCP/IP Suite Error and Control Messages Basic Router Troubleshooting
6	10 11	Intermediate TCP/IP Access Control Lists (ACLs)
7	-	Case Study: Routing
8		OnLine Final Exam & Skills-Based Exam (Also due are Lab Manual, Engineering Journal, all module exams, Case Study, Course Feedback)