



## CIS 163, Cisco CCNA Discovery 2

Spring 2014, 4 semester units

**Instructor:** Gordon Bailey

**Phone:** 355-6150 (with voice mail)

**Text: Optional**, the course text is entirely online

Working at a Small-to-Medium Business or ISP

CCNA Discovery Learning Guide

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### Course Description:

This course prepares students for jobs as network technicians. It also helps students develop additional skills required for computer technicians and help desk technicians. It provides a basic overview of routing and remote access, addressing, and security. It also familiarizes students with servers that provide e-mail services, Web space, and authenticated access. Students also learn about soft skills required for help desk and customer service positions. Network monitoring and basic troubleshooting skills are taught on context. This is the second course in the four course series preparing students for the CISCO Certified Network Administrator certification. Semester Hours 4.

**How the class works:** Relevant PC and networking topics will be discussed during the lecture class and hands-on exercises will be assigned for the lab session. Homework and periodic quizzes will be based on the Cisco site course work, lectures, and videos. Some of the practical assignments may use a simulator program (Packet Tracer). There will be 1 final exam; in addition there will be a quiz for each of the 10 chapters.

### Student Learning Outcomes

#### Upon completion of this course, the student will be able to:

Describe the structure of the Internet and how Internet communications occur between hosts; install, configure, and troubleshoot Cisco IOS® devices for Internet and server connectivity; plan a basic wired infrastructure to support network traffic; implement basic WAN connectivity using Telco services; monitor network performance; isolate failures; demonstrate proper disaster recovery procedures; perform server backups; and use the OSI and TCP/IP models and the process of encapsulation to troubleshoot problems using an organized, layered procedure.

Students will be able to:

1. Subnet a Network
2. Configure Network Devices
3. Configure an ISR with SDM Express
4. Configure Basic Router Settings with the Cisco IOS CLI
5. Configure DHCP with SDM and the Cisco IOS CLI
6. Manage Router Configuration Files Using HyperTerminal
7. Manage Router Configuration Files Using TFTP

8. Plan a WAN Upgrade
9. Configure the Cisco 2960 Switch
10. Create a Network Diagram from Routing

<b>Grading:</b>	Chapter Exams.....	.....	30%
	Lab Assignments and projects .....		20%
	Skills Based Assessment.....		25%
	Final .....		25%

The grading scale is:

90 to 100% = A	70 to 79% = C
80 to 89% = B	60 to 69% = D

To receive full credit, work must be turned in on time, at the beginning of class. **No credit** will be allowed for late work. Tests must be taken on-time (or early); there are no make-up tests. If an emergency prevents you from attending class, it is your responsibility to obtain notes and work assignments from a classmate and study them for understanding. If class notes and the text do not provide sufficient explanation, please call or see the instructor..

Interaction with the instructor and other students is an integral part of the learning process. However, you must personally use the keyboard and mouse in completing the assignments. All work submitted for grading must be your own. Cheating will result in an 'F' for the assignment or an 'F' for the course. Ethical conduct is an absolute requirement in the IT profession.

Need for Assistance: If you have any condition, such as a physical or learning disability, for which you need extra assistance, please provide me with information regarding your special needs as soon as possible so that appropriate accommodations can be made. You should also meet with DSP&S support staff and counselors. “Any student with a documented disability who may need educational accommodations should notify the instructor and/ the Disabled Students Programs and Services (DSP&S) office as soon as possible:

DSP&S  
 Room 2117 (Health Sciences Building)  
 760-355-6312 “

Class attendance, tardy, student conduct, and withdrawal policy follows the regulations in the IVC catalog. You may be dropped if your absences exceed the number of days a class meets per week. Three tardies equal one absence. Early departure is unacceptable and will be counted as an absence. If your plans change and you decide not to continue in this class, please drop yourself through WebStar; do not automatically assume the instructor will do this for you.

I recommend that you retain all of the class work that I return to you during the semester until after you receive your final grade.

The above schedule and procedures are subject to change in the event of extenuating circumstances (including meetings and seminar obligations).