OAKTON COMMUNITY COLLEGE
GENERIC COURSE SYLLABUS

I.

COURSE PREFIX	COURSE NUMBER	COURSE NAME	CREDIT	LECTURE	LAB
CNS (Formerly CNA 113)	143	CISCO Advanced Routing and Switching	4	3	2

II. PREREQUISITE:

CNS 142 (Formerly CNA 113); a passing grade must be registered on the Cisco Assessment Server

III. COURSE (CATALOG) DESCRIPTION:

This is the third course in the Cisco Networking Academy program. The course will concentrate on networking switching and more advanced routing concepts.

IV. LEARNING OBJECTIVES:

The student should be able to do very basic switch programming on the Cisco 2900 series and write access lists. The student will be able to program the access lists and be able to do more complex router programming than in the previous course. The student will also be able to program networks with IGRP and Novell IPX as the routing and routing protocols.

V. ACADEMIC INTEGRITY

Students and employees at Oakton Community College are required to demonstrate academic integrity and follow Oakton's Code of Academic Conduct. This code prohibits:

- cheating
- plagiarism (turning in work not written by you, or lacking proper citation)
- falsification and fabrication (lying or distorting the truth)
- helping others to cheat
- unauthorized changes on official documents
- pretending to be someone else or having someone else pretend to be you
- making or accepting bribes, special favors, or threats, and
- any other behavior that violates academic integrity.

There are serious consequences to violations of the academic integrity policy. Oakton's policies and procedures provide students a fair hearing if a complaint is made against you. If you are found to have violated the policy, the minimum penalty is failure on the assignment and, a disciplinary record will be established and kept on file in the office of the Vice President for Student Affairs for a period of 3 years.

Details of the Code of Academic Conduct can be found in the Student Handbook.

VI. OUTLINE OF TOPICS:

- Review: OSI and Routing
- LAN Switching
- Virtual LANs (VLANS)
- LAN Design
- Interior Gateway Routing Protocol (IGRP)
- Access Control Lists (ACL'S)
- Novell IPX routing
- Network Management
- Washington School study

VII. METHODS OF INSTRUCTION:

A combination of lectures, lab, and on-line activities will be used to master the material.

VIII. COURSE PRACTICES REQUIRED:

All Cisco lessons and chapter tests must be completed as well as the assigned laboratories. Reading material from supplemental sources as assigned must be read and a structured journal is kept.

IX. INSTRUCTIONAL MATERIALS:

Course Technology CCNA books.

X. METHODS OF EVALUATING STUDENT PROGRESS

All assigned work must be completed and the Cisco on-line final examination must be passed. Failure to pass the Cisco final exam will keep the student from being able to register for the next course in the sequence.

XI. OTHER COURSE INFORMATION:

The student will be expected to work outside of class on the Cisco on-line material. Instructor contact will be available via e-mail and Webboard.

If you have a documented learning, psychological, or physical disability you may be entitled to reasonable academic accommodations or services. To request accommodations or services, contact the ASSIST office in the Learning Center. All students are expected to fulfill essential course requirements. The College will not waive any essential skill or requirement of a course or degree program.