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Course Objectives

CCNA 3 – LAN Switching and Wireless:

The primary focus of this course is on LAN switching and wireless LANs. The goal is to develop an understanding of how a switch communicates with other switches and routers in a small- or medium-sized business network to implement VLAN segmentation. This course focuses on Layer 2 switching protocols and concepts used to improve redundancy, propagate VLAN information, and secure the portion of the network where most users access network services.

This course will go to great lengths to explain the underlying processes of the common Layer 2 switching technologies. The better the underlying concepts are understood, the easier it is to implement, verify, and troubleshoot the switching technologies. Each switching concept will be introduced within the context of a single topology for each chapter. The individual chapter topologies will be used to explain protocol operations as well as providing a setting for the implementation of the various switching technologies.

The labs and Packet Tracer activities used in this course are designed to help you develop an understanding of how to configure switching operations while reinforcing the concepts learned in each chapter.

CCNA 4 – Accessing the WAN:

The primary focus of this course is on accessing wide area networks (WAN). The goal is to develop an understanding of various WAN technologies to connect small- to medium-sized business networks.

The course introduces WAN converged applications and quality of service (QoS). It focuses on WAN technologies including PPP, Frame Relay, and broadband links. WAN security concepts are discussed in detail, including types of threats, how to analyze network vulnerabilities, general methods for mitigating common security threats and types of security appliances and applications. The course then explains the principles of traffic control and access control lists (ACLs) and describes how to implement IP addressing services for an Enterprise network, including how to configure NAT and DHCP. IPv6 addressing concepts are also discussed. During the course, you will learn how to use Cisco Router and Security Device Manager (SDM) to secure a router and implement IP addressing services. Finally, students learn how to detect, troubleshoot and correct common Enterprise network implementation issues.

The labs and Packet Tracer activities used in this course are designed to help you develop an understanding of how to configure routing operations while reinforcing the concepts learned in each chapter.

Required Textbooks and Materials

LAN Switching and Wireless, CCNA Exploration Companion Guide
by Cisco Press (Optional)

LAN Switching and Wireless, CCNA Exploration Labs and Study Guide
by Cisco Press

Accessing the WAN, CCNA Exploration Companion Guide
by Cisco Press (Optional)

Accessing the WAN, CCNA Exploration Labs and Study Guide
by Cisco Press

Course Operation

The class will consist of Cisco's online multimedia curriculum, in-class lectures and demonstrations, and hands-on lab time.

Semester Grade, Attendance, & Withdrawal

Percentage	From
25%	Skills Exam
25%	Online Final
25%	Online Chapter Exams
25%	Labs

Final Average	Final Grade
90-100	A
80-89.99	B
70-79.99	C
60-69.99	D
Below 60	F

No incomplete grades will be given for failure to attend and participate. If you must quit, you should initiate an official withdrawal in the Admissions Office prior to the last date to drop courses: **Friday, April 17, 2009**. Your punctual attendance and your participation are required for successful completion of the course. You may be dropped from the course without notice after a total of two weeks of class absences (3 times tardy counts as one absence). Only currently enrolled students are allowed to attend classes and labs. Any student who officially withdraws from the course before the drop date and before the instructor has dropped the student from the course will receive a grade of "W" unless instructor drops student with an "F" for cheating. The student is responsible for work missed because of illness, school business, or other circumstances.

Texarkana College Policies

Students are not allowed to bring food or drinks into the classroom, lab, or the Testing Center. The cost of damage to computer equipment, carpet, and furniture can be significant due to a minor mishap. Students are not allowed to bring a cellular phone, pager, or other wireless communication device for use in a classroom, lab, or the Testing Center without prior written approval from the Dean of Students. The Testing Center is under camera surveillance.

The viewing of pornography is prohibited and will result in being dropped from class with the grade of "F", and the Dean of Students will take disciplinary action. The use of student e-mail for obscene or pornographic purposes is prohibited. Any form of harassment will result in dismissal from class with the grade of "F", and the Dean of Students will take disciplinary action. The Computer Lab is under camera surveillance.

Academic Honesty

The College catalog states:

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an “F”.

This policy applies campus wide, including the TC Testing Center, as well as off-campus classroom or lab sites. Students are furnished this information during Freshman Orientation with the TC Student Handbook.

Cheating will not be tolerated. The instructor will drop any student caught cheating from the course with a grade of “F.” All assignments must represent the student’s own work. A student may discuss assignments with other students to gain a better understanding of the problem. However, copying projects or assignments, in whole or in part, from ANY source, without explicit instructor direction, is considered plagiarism and will result in a failing grade for the course and possible college disciplinary action as outlined in the Student Handbook section: **ACADEMIC DISHONESTY**. Students are required to originate, complete, and maintain their project assignment documents in the network folders assigned to them using Texarkana College computer equipment.

It is expected that students will conduct themselves with integrity. If you cheat or assist others in cheating, you violate a trust. Cheating includes but is not limited to the following:

- copying files or lending your storage device to another student
- copying answers on exams or glancing at nearby exams
- printing work for someone else
- turning in assignments that have been used in other classes
- purchasing or selling assignments or exam materials
- using another student’s username and password.

Classroom Rules of Conduct

- You are to be respectful of your instructor and fellow classmates at all times.
- As a courtesy, please do not talk, type, or print while the instructor is talking to the class or when a student is asking a question which pertains to the class.
- You are to refrain from “surfing” the Web during class, unless directed by your instructor.
- You are to turn off cell phones, pagers, and any type of audio players.
- You are to remove headphones.
- You are encouraged to work together to solve problems. However, you must complete your own work. Cheating will result in an F for all involved in the act even if the person is in another class or previous semester.

Lab Assignment Redo's

Lab Assignments unsatisfactorily completed will be returned with corrections indicated. If your lab assignment has errors, then you must make the necessary corrections and resubmit both the corrected version and the incorrect version to receive credit. To be graded, the corrected version must be stapled **on top** of the incorrect version. For partial credit and to avoid a zero for those assignments that were not corrected, the projects or labs must be turned back in “as is”.

Computer Lab

Time will occasionally be given in class to work on lab projects. Students are strongly encouraged to familiarize themselves with the lab work by using Cisco's eLab simulations and router simulator **BEFORE** attempting to complete the work on the actual equipment.

A computer lab is available for working through the online curriculum and lab simulations outside of class. You may also review the curriculum from a location of your choice using your supplied username and password. Tentative hours for the lab are:

Monday - Thursday	8:00 am - 9:00 pm
Friday	8:00 am - 4:00 pm

The Computer Lab is not open on weekends and college holidays/breaks.