Computer Technologies Department

INSTRUCTOR: Joseph Cheung

E-mail: jcheung@tmcc.edu

Website: http://classes.tmcc.edu/jcheung/

Office hours:

> Thursdays – 11:00 AM to 4:00 PM or by appointment

Office address: SIER 202-O

Office phone: 673-7889

CISCO NETWORKING ACADEMY DESCRIPTION

CCNA 3 Exploration v4.0 – LAN Switching and Wireless – Credits: 5

LAN Switching and Wireless is the third of four courses leading to the Cisco Certified Network Associate (CCNA) certification.* CCNA 3 focuses on LAN Design, initial switch configuration, VLANs, VLAN Trunking Protocol (VTP), Spanning Tree Protocol (STP), inter-VLAN routing, and wireless concepts.

*CCNA certification is not awarded by TMCC. Students wishing to be certified must pass the appropriate certification exam(s) offered by Cisco.

Prerequisite: CSCO 120 with a grade of "C" or better

COURSE OBJECTIVES

Successful students will demonstrate the ability to perform tasks related to:

- LAN Design
- Switch Configuration
- VLANs, Trunking, and Inter-VLAN Routing
- STP

LEARNING OUTCOMES

Students will demonstrate their knowledge of VLANs, trunking, interVLAN routing, and VTP.
Students will demonstrate their ability to manage the Cisco IOS file system, including both system Images and configuration files.

Students will demonstrate their ability to interpret the output of various show and debug commands to verify the operational status of a Cisco switched network.

COURSE OUTLINE

1. LAN Design

2. Basic Switch Concepts and Configuration
3. VLANs
4. VTP
5. STP
6. Inter-VLAN Routing
7. Basic Wireless Concepts and Configuration

METHOD OF INSTRUCTION

This class is a "hands-on" and "online" computer technology course. Lecture, hands-on exercises, class participation, and online instruction provided by Cisco will be the primary means of instruction. See the **late work policy** and the **class schedule** for details.

TEXTS

The following text is **required**:
Title: CCNA Portable Command Guide, 2nd Edition
Author: Scott Empson
Publisher: Cisco Press
ISBN: 1-58720-193-3
Pub. Date: July 18, 2007

The following text is **optional**:
Title: LAN Switching and Wireless: CCNA Exploration Labs and Study Guide
Author: Allan Johnson
Publisher: Cisco Press
ISBN: 1-58713-202-8
Pub. Date: April 22, 2008

The following text is **optional**:
Title: LAN Switching and Wireless: CCNA Exploration Companion Guide
Author: Wayne Lewis
Publisher: Cisco Press
ISBN: 1-58713-207-9
Pub. Date: April 28, 2008

ATTENDANCE

It is each student's responsibility to attend class regularly. The nature of this course makes successful completion difficult if a student has excessive absences. Students are responsible for exercises, projects, discussions, or announcements missed due to their absence.

Note: Students who do not attend the first class and fail to contact the instructor beforehand may be administratively withdrawn.

STUDENT EVALUATION

➤ The student evaluation components consist of online quizzes for each chapter, labs and activities, a final examination, and a practical examination (also known as a "skills test").

➤ Students are expected to read and complete the chapters before class and be prepared with questions during the class period. Some material covered in the reading may not be covered during lecture, but students are still responsible for knowing the material! Read and ask questions.

➢ Any homework assignments, projects, reports, exams, or other information given to the instructor become the property of the instructor. The instructor has the choice of retaining or returning anything turned in.

Assessment Item	Points
Online Module Quizzes	100
Challenge Labs	100
Labs and Packet Tracer Activities	100
Skills Test	100
Final Exam	100
Total =	**500**

Grades will be assigned based on total points using the following scale: A = 90 – 100%
B = 80 – 89%
C = 70 – 79%
D = 60 – 69%
F = < 60%

W's will be issued for students who officially withdraw in accordance with TMCC withdrawal policy. The deadline for withdrawal is **5:00 PM on October 21**.

Students choosing to audit the course have until **5:00 PM on September 2** to change their status from letter grade to auditing.

LATE WORK:
Late work will not be accepted for any reason. If you miss a deadline for any assignment, quiz, or exam, you will receive zero points for the grade. The reason for this policy: In a "real world" work environment, missing a deadline can mean lost revenue, the loss of a contract or client, and/or the loss of a job.

ADA STATEMENT
Qualified, self-identified students with documented disabilities have the right to free accommodations to ensure equal access to educational opportunities at Truckee Meadows Community College. For assistance, contact TMCC's Disability Resource Center at 775-673-7277, TTY 775-673-7888, come by the Red Mountain Building, room 315 B or visit www.tmcc.edu/drc.

TUTORING AND LEARNING CENTER
Study skills advice and tutoring are available. For more information, go to Red Mountain 115, call 673-7285, or visit http://www.tmcc.edu/tutoring/.

GENERAL POLICIES
It is assumed that all registered students are mature members of the college community who will adhere to the rules of academic integrity. Plagiarism and cheating will be subject to all disciplinary action as provided in the TMCC code. It is each individual's responsibility to meet scheduled deadlines. Due dates will not be waived for illness or technical difficulties.

Student feedback will be requested each semester to assist the instructor in evaluating the materials, methods of presentation, and pedagogy.

The instructor reserves the right to change this syllabus.

Course Schedule – CSCO 220 Fall 2012

Class	Date	Course Topic	Due Dates*
1	8/28	Course Introduction / Review	
2	8/30	Chapter 1: LAN Design	
3	9/4	Chapter 2: Basic Switch Concepts and Configuration	Chapter 1
4	9/6	CDP/Switch Configuration Challenge Lab	
5	9/11	Chapter 3: VLANs / Chapter 6: Inter-VLAN Routing	Chapter 2
6	9/13	VLAN Challenge Lab	
7	9/18	Chapter 4: VTP	Chapter 3/6
8	9/20	VTP Challenge Lab	
9	9/25	Chapter 5: STP	Chapter 4
10	9/27	STP Challenge Lab	
11	10/2	Chapter 7: Basic Wireless Concepts and Configuration	Chapter 5
12	10/4	Comprehensive Challenge Lab	Chapter 7
13	10/9	Review (Challenge Lab?)	
14	10/11	Review (Challenge Lab?)	
15	10/16	**Skills Test**	
16	10/18	**Final Exam**	

*Quizzes and Packet Tracer Activities must be completed **before class** on the date specified.

This schedule is subject to change at the instructor's discretion.

PDF to Word