SYLLABUS

ITCC 2408

CISCO SEMESTER 3

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Course Number: ITCC 2408
Section Number: 63475, 63476
Class Meeting Time: 5:30 – 8:10 Monday and Wednesday
Credit Hours: Four (4)

PREREQUISITES: Cisco Semester 2
COURSE DESCRIPTION:

A course focusing on advanced topics including IP addressing techniques, intermediate routing protocols, CLI configuration of switches, Ethernet switching, VLANs, Spanning Tree Protocol, and VLAN Trunking Protocol. Licensing/Certification Agency: Cisco Corporation

This is the third of a four semester Cisco Networking Academy curriculum. The four semester program is designed to teach students the skills needed to design, build and maintain small to medium sized networks, to interconnect networks and WAN’s, and to program inter and intranetworking devices. This program provides the student with the opportunity to enter the workforce and/or further their education and training in the computer networking field. The program prepares students for industry standard career certifications such as the Cisco Certified Networking Associate (CCNA).

CREDIT HOURS

This course includes three hours of classroom work (lecture and discussion) and 4 hours of practical experience in the laboratory per week for 4 credit hours.

PREREQUISITES: Cisco Semester 2

Lab Safety: Electrical and electronic labs are inherently dangerous. For obvious safety reasons, no one will be permitted to work in the labs unless an instructor is present. Unsafe lab practices will not be tolerated.

COURSE LEARNING OUTCOMES:

The student will configure router for networks in the IP environment; describe and implement local area network (LAN) segmentation bridges, switches, and routers; identify and solve network congestion problems.

Learning outcomes/objectives are determined by local occupational need and business and industry trends. The outcomes in this course are related specifically to Semester 3 of the Cisco Systems Networking Academy program.

SPECIFIC COMPETENCIES

Configure switch MAC addresses.
Configure switch port security.
Manage switch configuration files.
Manage switch system operating system files.
Perform password recovery on a switch.
Configure Spanning Tree protocol on a switch.
Configure and manage static VLANs.
Configure VLAN trunking with ISL and 802.1q.
Configure VTP client and server functions.
Configure inter-VLAN routing.
Describe the advantages of LAN segmentation.
Describe LAN segmentation and benefits of the segmentation using bridges, switches and routers.
Describe full and half duplex Ethernet operation.
Describe network congestion problems in Ethernet networks.
Describe the benefits and features of fast Ethernet.
Describe the guidelines and distance limitations of fast Ethernet.
Distinguish between cut-through and store and forward LAN switching.

COURSE OBJECTIVES:
The general course objectives are to provide the student with a thorough knowledge of the terminology related to networking and connecting networks, the creation and operation of small to medium sized networks, and the knowledge and skills needed to apply structured cabling guidelines as related to the CCNA exam topics included in the semester 3 curriculum of the Cisco Systems Networking Academy program. Practical skills and safety practices directly related to the theory topics are provided in the laboratory sessions.

For specific objectives and the level at which you are expected to perform to demonstrate your competence, you are encouraged to refer to the chapter introduction and objectives sections of each chapter in the text and the online materials and the chapter review questions in the text and engineering journal and workbook. Please take the time to read through these objectives before starting a new lesson or lab. It is so much easier to learn something if you know up front what it is that you are expected to learn.

In your written exams, you will be given questions of the same type and level of difficulty as the review questions. If you can answer questions of this type and level within a reasonable period of time and without the use of additional notes or reference material, your success in this course is assured and your competence will be so demonstrated.

Conversely, if you cannot answer the questions, your failure is assured. You are expected to read every sentence in every paragraph of the online materials, view all of the graphics, listen to all of the audio topics, take the pretests for each lesson, complete all of the review questions for each lesson of the online materials and chapter in the text and journal before taking a test on any lesson. If you cannot answer the review questions, you are expected to notify your instructor before testing. If you give the instructor sufficient notification, an attempt will be made to help you. However, it is very difficult to justify your inability to work the problems because of an
unexcused absence.

Credit by Exam: Cisco does not provide credit by exam options for any semester except Semester 1.

Articulation: Those who have completed an equivalent course in high school should ask the instructor for a package of materials describing the articulation process.

COURSE CALENDAR/SCHEDULE/OUTLINE

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<th>Topic</th>
<th>References</th>
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<td>1</td>
<td>LAN Design</td>
<td>Ch. 1</td>
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<td>1</td>
<td>Basic Switch Concepts and Configuration</td>
<td>Ch. 2</td>
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<td>2</td>
<td>VLANs</td>
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<td>2</td>
<td>Virtual Trunking Protocol</td>
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<td>Spanning-Tree Protocol</td>
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<td>Spanning-Tree Protocol (part 2)</td>
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<td>5</td>
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<td>Practical Final</td>
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<td>7</td>
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The course calendar will vary from course to course to meet the special topic and time requirements of the course and students.

Please note that this calendar is tentative and may vary dependent upon the progress of the class. Online examinations will be made available either by scheduled activation, at the instructor’s discretion or by the email request of the students. The material contained within this chapter will be testable on the final.

BOOKS/PRINTED and ONLINE MATERIALS/SUPPLIES:

Online Materials: Cisco Networking Academy Semester 3 Online program


Because the primary sources of information for the Cisco courses are online, a personal computer at home, an email address and an internet connection are required.

GRADING PROCEDURES/SCALE:
To receive a passing grade in this course all lab assignments and all weekly assignments must be completed. A decrease of one letter grade of the semester grade for each non-completion will be assessed when final grades are assigned.

If all labs and special assignments are completed, the final grade will be determined by averaging the average end of chapter online exams with the final course online exam. A final grade will be assigned as described below.

90 - 100 = A  
80 - 89 = B  
70 - 79 = C  
Below 70 = F

For example: if the average of the end of chapter online exams is 78 and the online final grade is 84, the average of the two grades is 81, and the final grade will be a B.

Because retesting may be permitted on the chapter tests and a minimum proficiency is expected, there are also limitations on component grades. Specifically, a minimum average of 70 must be obtained on the chapter exams, and a minimum score of 60 on the final exam is acceptable.

The final exam schedule is published in the calendar of the schedule for the current semester. For flex entry courses, the professor will inform you of the final exam time and date.

ATTENDANCE POLICY

Class attendance is very important in the Cisco curriculum. Attendance at the first class meeting is mandatory (online students exempt). Among other important topics, the guidelines for using the equipment are discussed with the class at this time. The equipment used in the classroom and lab is expensive. Misuse of the equipment on the job could result in being fired. Misuse of the equipment in the classroom or lab is grounds for dismissal from the Cisco class. Also keep in mind that missing the first class meeting could result in losing your position to someone waiting for a slot in the class.

Being on time is also very important. Most of the lectures will be given at the beginning of the class periods.

It is absolutely necessary that you complete assignments in a timely manner. If your testing schedule is not current, you may not be able to take some chapter exams.

Lab equipment is limited. If you miss your assigned lab periods, you may not be able to complete some lab assignments, and that could result in a failing course grade.

The attendance policy published in the catalog for the current year is the official attendance policy for this course.

Please review the Withdrawal Policy and Drop Date section later in this syllabus.

MAKEUP WORK/RETESTS

All assignments are due no later than the final exam date. Of course, uncompleted work has a value of 0 points. Retests are at the discretion of the professor.
PLEASE REQUEST IMMEDIATE CLARIFICATION ON ANY PART OF THE SYLLABUS THAT YOU DO NOT UNDERSTAND

Disclaimer Reserving the Right to change Syllabus
The instructor reserves the right to amend this syllabus as necessary.

Withdrawal Policy (with drop date)
If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by the semester’s drop date. Failure to do so will result in your receiving a performance grade, usually an “F.”

If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (withdraw) in each class dropped.

The official drop date will be listed in the college schedule and on the receipt that you received at registration. Please enter this date on the front page of this syllabus.

Repeating this Course
Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. This class may/may not be repeated for the third or subsequent time without paying the additional tuition. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 semester. More information is available at:
https://www1.dcccd.edu/cat0506/ss/oep/third_attempt.cfm

Financial Aid
Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

The Texas Success Initiative (TSI)
The Texas Success Initiative (TSI) is a statewide program designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student’s basic academic skills in reading, writing, and math. Passing the assessment is a prerequisite for enrollment in many college level classes. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher. Additional information is available at https://www1.dcccd.edu/cat0506admiss/tsi_requirements.cfm
Academic Honesty
Academic honesty is expected and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD catalog. More information is available at https://www1.dcccd.edu/cat04006/ss/code.cfm.

ADA Statement
If you are a student with a disability and/or special needs who requires accommodations, please contract the college Disability Services Office.

Religious Holidays
Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to take a make-up examination or complete an assignment within a reasonable time after the absence.

Inclement Weather Statement
If weather conditions are extreme, please listen to local radio stations, listen to your local television stations or check the DCCCD web site at http://www.dcccd.edu for campus closings.

STOP BEFORE YOU DROP
For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedrops