

Lone Star College - Tomball CCNP Switching – ITCC2455 Spring 2012: Tentative Schedule

Wk	Date	Торіс	Exams
1	1/23	Chapter 1: Analyzing the Cisco Enterprise Campus Architecture	
2	1/30	Chapter 2: Implementing VLANs in Campus Networks	Mod 1
			Exam
3	2/6	Chapter 2: Implementing VLANs in Campus Networks	
4	2/13	Chapter 3: Implementing Spanning Tree	Mod 2
			Exam
5	2/20	Chapter 3: Implementing Spanning Tree	
6	2/27	Chapter 4: Implementing Inter-VLAN Routing	
7	3/5	Chapter 4: Implementing Inter-VLAN Routing	Mod 3
			Exam
8	3/12	Spring Break	
9	3/19	Chapter 5: Implementing High Availability and Redundancy in a Campus Network	Mod 4
			Exam
10	3/26	Chapter 5: Implementing High Availability and Redundancy in a Campus Network	
11	4/2	Chapter 6: Securing the Campus Infrastructure	Mod 5
			Exam
12	4/9	Chapter 6: Securing the Campus Infrastructure	
13	4/16	Chapter 7: Preparing the Campus Infrastructure for Advanced Services	Mod 6
			Exam
14	4/23	Chapter 7: Preparing the Campus Infrastructure for Advanced Services	
15	4/30	Final and/or Skills Final	Mod 7
			Exam
16	5/7	Final and/or Skills Final	





Computer Information Technology

CCNP Switch-Implementing IP Switching ITCC 2455

CATALOG DESCRIPTION:

How to implement, monitor, and maintain switching in converged enterprise campus networks. How to plan, configure, and verity the implementation of complex enterprise switching solutions. How to secure integration of VLANs, WLANs, voice and video into campus networks.

Course Title:	CCNP Switch-Implementing IP Switching
Course Number	ITCC 2455
Credit/Contact Hours:	4 semester credit hours/96 contact hours 16 week class
Prerequisites	Exploration/Discovery 1-4 or CCNA Certification
Instructor	Willie May
Class/Lab Days and Times	January 23 – May 7 Monday 6:00pm – 11:00pm
Class Room Location	East 253
Office Hours:	M W 1p – 5p or by appointment
E-mail	Willie.May@Lonestar.edu
Phone:	281.401.1844
Division Contacts	Dean: Dr. Cindy Casparis – 281.351.3339 <u>Cynthia.A.Casparis@lonestar.edu</u> Chair: Lindell Chapman – 281.357.3756 Lindell.Chapman@lonestar.edu Director: Willie May – 281.401.1844 Willie.May@lonestar.edu

LEARNING OUTCOMES:

Implement, monitor, and maintain switching in an enterprise campus network Iimplement appropriate spanning tree protocols in campus networks Implement VLANs in campus networks Configure and optimize high availability and redundancy on switches Describe and implement LAN security features Plan and prepare for advanced services in a campus infrastructure.

REQUIRED MATERIALS:

- 1 package of laser printer paper (prefer 3-hole punched)
- Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide: Foundation learning for SWITCH 642-813, Richard Froom, Balaji Sivasubramanian, Erum Frahim, Published by Cisco Press, series: Foundation Learning Guides, Published: Jun 21, 2010, Copyright 2010, Edition: 1st, ISBN-10: 1-58705-884-7

Optional Materials

 CCNP SWITCH 642-813 Official Certification Guide (842-813), By David Hucaby, Published by Cisco Press, Series: Exam Certification Guide, Published: Feb 9, 2010, Copyright 2010, Edition: 1st, ISBN-10: 1-58720-243-3

LETTER GRADE ASSIGNMENT:

Final letter grades will be assigned after computing individual final averages in percent as follows:

Final Average in Percent	Letter Grade
90 - 100	А
80 - 89	В
70 - 79	С
60 - 69	D
Below 60	F

Grades will be determined as follows:

Labs & Assignments	20%
Chapter Exams	20%
Case Study	10%
Skills Based Final	25%
Final Exam	25%

Total 100%

ATTENDANCE AND PARTICIPATION POLICY:

The maximum number of absences allowed before a reduction in the final grade average is 4. After the

Fourth absence, 5 points will be deducted from the final grade average for each additional absence. A student will be considered absent if he is not present when the roll is called BOTH at the beginning of class (even if he should show up later) and at the time of dismissal of class. The student should realize that an excessive number of absences will prohibit the completion of course objectives. If a student should miss a class lecture, it is the student's responsibility to contact another student to obtain the lecture notes and any assignments. Students are expected to assume the responsibility for learning. Your instructor will assist you, but the actual responsibility rests with you. Students are expected to devote their energy to attaining the skills and knowledge required for their particular career goals. The Lone Star College -Tomball Policy and Procedure Manual [Student Conduct Section 562.01d] states, "Disruptive activity that hinders other students' learning or deters an instructor from effective teaching will not be tolerated under any circumstances."

To provide an equal-opportunity learning situation for all students enrolled in this class, children are not allowed in the labs or classrooms.

ASSIGNMENTS:

All assignments are to be completed and submitted to the instructor on the scheduled due date. No late assignments will be accepted. You must demonstrate mastery of all **Basic Skills** for each section of the lab to earn credit for the course. Your instructors will supply detailed testing and grading procedures. Homework assignments will be made by the instructor. They may consist of exercises in the textbook or lab exercises. Five points will be deducted from the homework grade for each class day the homework is turned in late. Homework is due at the start of class on the day it is due. Homework may be turned in early but must be turned in at the start of the class when it is due.

MAKE-UP EXAMS:

Students should contact the instructor prior to missing a scheduled examination by phone, in-person, by email, or by voice mail. An opportunity to take an alternative examination will be offered to those who make **prior** contact with the instructor. All make-up exams will be administered during normal class time.

WITHDRAWAL POLICY:

Withdrawal from the course after the official day of record and prior to "W" day (see current catalog) will result in a final grade of "W" on the student transcript and no credit will be awarded. . If you stop attending class, you must withdraw at the Registrar's office before the official drop date. Failure to do so will result in an "F" for the course.

Should a student decide to drop this course, it is the student's responsibility to officially withdraw from the course.

ACADEMIC INTEGRITY:

The Lone Star College is committed to a high standard of academic integrity in the academic community.

In becoming a part of the academic community, students are responsible for honesty and independent effort. Failure to uphold these standards includes, but is not limited to, the following: plagiarizing written work or projects, cheating on exams or assignments, collusion on an exam or project, and misrepresentation of credentials or prerequisites when registering for a course. Cheating includes looking at or copying from another student's exam, orally communicating or receiving answers during an exam, having another person take an exam or complete a project or assignment, using unauthorized notes, texts, or other materials for an exam, and obtaining or distributing an unauthorized copy of an exam or any part of an exam. Plagiarism means passing off as his/her own the ideas or writings of another (that is, without giving proper credit by documenting sources). Plagiarism includes submitting a paper, report or project that someone else has prepared, in whole or in part. Collusion is inappropriately collaborating on assignments designed to be completed independently. These definitions are not exhaustive. When there is clear evidence of cheating, plagiarism, collusion or misrepresentation, a faculty member will take disciplinary action including but not limited to: requiring the student to retake or resubmit an exam or assignment, assigning a grade of zero or "F" for an exam or assignment; or assigning a grade of "F" for the course. Additional sanctions including being withdrawn from the course, program or expelled from school may be imposed on a student who violates the standards of academic integrity.

SOFTWARE PIRACY:

Law strictly prohibits unauthorized copying of software purchased by Lone Star College - Tomball for use in laboratories. Lone Star College - Tomball administration will take appropriate disciplinary action against anyone violating copyright laws.

COMPUTER VIRUS PROTECTION:

Computer viruses are, unfortunately, a fact of life. Using the diskettes on more than one computer creates the possibility of infecting computers and diskettes with a computer virus. This exposes the computers of the college, your personal computer, and any others you may be using to potentially damaging viruses. The college has aggressive anti-virus procedures in place to protect its computers, but cannot guarantee that a virus might not temporarily infect one of its machines. It is your responsibility to protect all computers under your control and use and ensure that each electronic removable device you use, whenever or wherever you use it, has been scanned with anti-virus software. Since new viruses arise continually, your anti-virus software must be kept current. And, since no anti-virus software will find every virus, keeping copies of data (backups) is extremely important.

EQUAL OPPORTUNITY STATEMENT:

It is the policy of the Lone Star College System to provide equal employment, admission and educational

opportunities without regard to race, color, religion, national origin, sex, age, or disability. Lone Star Colleges strive to provide an excellent learning environment free from harassment or intimidation directed at any person's race, color, religion, national origin, sex, age, or disability. Any form of harassment will not be tolerated

ADA STATEMENT:

The Lone Star Colleges are dedicated to providing the least restrictive learning environment for all students. The college district promotes equity in academic access through the implementation of reasonable accommodations as required by the Vocational Rehabilitation Act of 1973, Title V, Section 504 and the Americans with Disabilities Act of 1990 (ADA) which will enable students with disabilities to participate in and benefit from all post-secondary educational activities.

If you require reasonable accommodations because of a physical, mental, or learning disability, please notify the instructor of this course as soon as possible and preferably before the end of the first two weeks of class to arrange for reasonable accommodations.

INTERNET AND E-MAIL:

The District provides computing and network resources to students. Students are encouraged to use the computers, software packages, and electronic mail (e-mail) for educational or District-related activities and to facilitate the efficient exchange of useful information. However, the equipment, software, and network capacities provided through the district computer services are and remain the property of the District. Use of the equipment and networks is to comply with the policies and procedures of the District and access may be denied to any student who fails to comply with the District's policies and procedures regarding its use.

Access to the District's e-mail and similar electronic communications systems are a privilege and certain responsibilities accompany that privilege. District users are expected to demonstrate the same level of ethical and professional manner, as is required in face-to-face or written communications. Anonymous or forged messages will be treated as a violation of this policy.



Statement of Workplace and Foundation Competencies (SCANS Skills)

The Lone Star COLLEGE is committed to prepare you with the knowledge and skills you need to succeed in today's dynamic work environment. Towards this end, the following workplace competencies and foundation skills have been designed into the curriculum for this course:

SCANS

The Secretary's Commission on Achieving Necessary Skills (SCANS) has researched and listed the skills and competencies that employees will need for workplace success. The SCANS skills that are found in the course learning outcomes are:

1. Resource Allocation

Students who commit themselves to take this course display a level of skill at allocating time and money in the pursuit of a goal. They learn to take advantage of available resources, human (instructor, librarians) as well as material (laboratory hardware, network applications, publications, Internet). This is further enhanced during the semester, as students must apply their knowledge to life-like laboratory experiments, study for tests, and prepare for technical exams.

- Information Collection and Gathering Class attendance, note taking and research develop the students' ability to collect data and extract information. The skill developed is necessary for understanding the course material and working on laboratory assignments.
- 3. Interpersonal Communication

The instructor routinely quizzes students both during lecture and in the form of take home essay exams, to develop verbal and written communication skills. They are also encouraged to work in groups, participate in class discussion, and share their knowledge of system software.

- **4.** System Understanding This course is highly technical and teaches students the concepts of personal computer operating system installation and management.
- Technology Understanding This course teaches students technology concepts, which include the nature of personal computer operating systems, control of PC systems through commands, file handling, back-up/restore features, system tuning and utilities.
- 6. Basic Skills

A course of this level requires listening and speaking, reading and writing skills, and comprehension, for traditional or Internet class attendance as well as for the research and conduct of laboratory assignments. A solid background in mathematics gives the students the analytical and logical training required for troubleshooting such a complex environment as a personal computer operating system with both graphical and command line utilities.

7. Thinking Skills

Class discussions, tests, and assignments are designed to enhance students' thinking skills rather than emphasize rote memorization.

8. Personal Qualities

Responsibility, self-esteem, sociability, self-management, integrity and honesty are emphasized and developed in the course of the semester as students learn to apply the skills they are practicing in the classroom, on the Web and in laboratory experiments..





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Lone Star College - Tomball ITCC 2455 – STUDENT PROFILE

I have viewed the syllabus for this course.				Yes	No		
Name	:						
Addre	ess:						
City &	& Zip:						
Phone	Day		Evening				
THOIR	Cell Phone/Other						
	Tell me about your semester:						
	A. How many hours are you taking?						
1.	B. What other courses are you taking (if any)?						
	C. Are you working?		If so, how many	hours?			
	Where & doing what	?					
	How many hours have you c	completed in college?					
2.	A. What certificate or de	egree are you working towards?					
	B. Would you like information on the degrees and certificates offered in Computer information Systems?						
3.	Do you have any special needs that you wish your instructor to know about?						
	Why are you taking this class? Check all that apply.						
4.	Personal knowledge		Required course				
	Building skills for present jo	b	Building skills for future job				
We will develop a list for student reference of our class phone numbers. If you wish to participate, please fellow students to use to contact you.				h to participate, please wri	te the number you want		
5.	Phone:						
6.	If you have an Internet e-mail address you check frequently, please indicate the address. (If you are interested in obtaining a free e- mail address through the college, ask your instructor for directions or visit http://www.lonestar.edu and follows applying for email instructions.)						
	E-mail address:						
7.	Alternative Contact	Please provide a name and addr not be located with the information Name	ion you have provi	ded with this document.	_		
		Phone #					