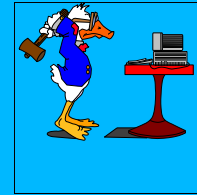


ITNW 1425.8001/8470
Introduction to Networking
Fall 2007 (08/27/07 - 12/13/07)
Professor: Zoltan Szabo
Class Room: D111(lec)/S133 (lab)

Time: MW 8:15AM – 9:40AM / 9:50AM – 11:05AM



CATALOG DESCRIPTION:

Introduction to the fundamentals, basic concepts, and terminology of networks. Topics include the access and use of the Internet and networking hardware and software, including current developments in networking. This course may be repeated if topics and learning outcomes vary.

LEARNING OUTCOMES:

Describe various network topologies and network operating systems; access and use network services; identify hardware and software network components and their functionality; and explain public and private communication infrastructures.

COURSE OBJECTIVES:

The goal of this course is to provide an introduction to networking technologies and prepare students to pass CompTIA's broad-based, vendor –independent networking certification exam, Network +. This course covers a wide range of material about networking, from careers in networking to local area networks, wide area networks, protocols, topologies, transmission media, and security. It not only introduces a variety of concepts, but also discusses in-depth the most significant aspects of networking, such as the TCP/IP protocol suite. In addition to explaining concepts, the course uses a multitude of real world examples of networking issues from a professional's standpoint, making it a practical preparation for the real world.

COURSE PREREQUISITES: None. It is recommended, however that students know how to type, use Microsoft Windows© and have completed a computer literacy course.

TEXTBOOK and MATERIALS:

- Network+ Guide to Networks, Fourth Edition
- Lab Manual for Network+ Guide to Networks, Fourth Edition
- Three high-density computer diskettes (3 ½ inch), IBM formatted, labeled with your name.
- Richland College Student picture ID, to allow use of the drop-in computer labs.

Institution Policies	
ADA statement	If you are a student with a disability and/or special needs who requires accommodations, please contact 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.

Academic dishonesty	<p>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.</p> <p>As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the <u>DCCCD Code of Student Conduct</u> published in the DCCCD Catalog.</p> <p>https://www1.dcccd.edu/cat0506/ss/code.cfm</p>
Withdrawal policy (with drop date)	<p>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 (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.</p>
Repeating this course	<p>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. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 Semester.</p>
Disclaimer reserving right to change syllabus	<p>The instructor reserves the right to amend this syllabus as necessary.</p>

SCANS COMPETENCIES (Secretary's Commission of Achieving Necessary Skills)

Foundation Skills

- Read, write, perform arithmetic and mathematical operations, listen, and speak effectively.
- Think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.
- Display responsibility, self-esteem, sociability, self-management, integrity, and honesty .

Workplace Competencies

- Identify, organize, plan, and allocate resources effectively.
- Acquire and use information.
- Work with others effectively.
- Understand complex interrelationships.
- Work with a variety of technologies

ATTENDANCE POLICY: It is expected that students will attend class regularly. Class attendance is 5% of the course grade. Students who will be absent from class for the observance of a religious holiday will be allowed to makeup examinations or assignments missed that day IF their instructor was notified not later than the 15th day of the semester. Please refer to the college catalog Student Obligations- Attending Classes section.

WITHDRAWAL (DROP) POLICY: To drop a class or withdraw from the College, students must obtain a drop or withdrawal form and follow the prescribed procedure. Students are strongly urged to contact their instructor if situations occur that might require withdrawal from this course. However, it is the student's responsibility to drop or withdraw. Failure to do so will result in receiving a performance grade, usually a grade of "F." Should circumstances prevent a student from appearing in person to withdraw from the College, the student may withdraw by mail by writing to the Registrar. No

drop or withdrawal requests are accepted by telephone. Students who drop a class or withdraw from the College before the semester deadline receive a "W" (Withdraw) in each class dropped. The deadline for receiving a "W" is indicated on the academic calendar and the current class schedule. This semester the drop date is **Thursday, November 15, 2007**. The deadline for dropping without a "W" is **Monday, September 10, 2007**.

DISABILITY SERVICES/SPECIAL SERVICES:

Student with a disability and/or special needs that requires ADA accommodations should contact the Richland College Disability Services Office, T120, (972) 238-6180.

COMPUTER/INTERNET POLICY:

Richland College students, have access to the Del Rio computer labs for educational and instructional purposes. You are required to show your Richland Student ID when requested by lab personnel. You are expected to follow lab policies as well as the Student Code of Conduct specified in the catalog. Richland Computer Lab cannot provide any software for outside use.

TUTORING AND OTHER ASSISTANCE POLICIES:

Tutoring is available through the Center for Teaching and Learning Connections ((972) 238-6226, Medina 216) and the Del Rio lab D229 ((972) 238-6317, large counter center of second floor). Generally, one hour per week is free.

SAFETY POLICY: It is important for students to participate in this class in a safe, appropriate manner. We occasionally have to step over cords for the multimedia cart and/or computer equipment. We also need to watch out for boxes and paper, students' backpacks, etc. During the first few labs, you will be encouraged to build good computing habits, designed to prevent eyestrain, carpal tunnel syndrome, etc.

CAMPUS FOOD AND DRINK POLICY: No eating or drinking is allowed at the computer tables

in the lab rooms. Students, who wish to eat or drink in the lecture room, must sign the Statement of Responsibility, an agreement to be responsible for removing cans, bottles, and trash, from the learning environment.

TESTING: There are two testing elements; short Unit Quizzes and three Major tests. All quizzes and tests will be Closed Book, unless notified in advance. **No make-up quizzes or exams will be given!!!!!!**

DUE DATES: Unit quizzes for this material will be given during the first ten minutes of a class meeting. **DE#** indicates the opportunity to present a "Discovery Event" reports for that discovery period.

LABORATORY ASSIGNMENTS: There are 15-17 Laboratory Assignments (**LA**). Laboratory Assignments will be completed in the lab and nomakeup will be allowed. Labs are for your own benefit. You can simulate some of the labs using TestOut software in the open lab (on your own time). The default login id and password is your student id. First, you need to login to the network as ITCC and no password to use the software. Make sure you change your password after your first login.

DISCOVERY EVENTS: Extra credit. This option involves classroom presentation of any current event related in the computer networking field to the subjects learned prior to the upcoming DE. Each student required to choose 2 dates to present 2 independent findings about new technology, improvement to existing technology or PC component. Each presentation should not exceed 10 minutes and presentation style chosen individually. A written presentation must be handed in by each student for each presentation to earn a grade. Valued at 10% of the final grade.

Important: These requirements are cumulative. There are three scheduled periods, as indicated on the *Assignment Schedule*, to make up the two **DE's**. A missed chance for a discovery period is lost and may not be recovered.

Supplementary information: Available on campus, in D257 computer lab by accessing G:\Data\Szabo\Network+. The folder contains class notes, PowerPoint slides, class announcements, the course syllabus, test dates, and other information for the course.

GRADING ELEMENTS:

A	90-100	Attendance	5%
B	80-89	Unit Quizzes	15%
C	70-79	Major Tests (3)	75%
D	60-69	DE (optional)	(10%)
F	Below 59	Labs	5%

INSTRUCTOR DATA: Zoltan Szabo

Office Location: Del Rio Building, D112
Office Hours: By appointment only
Division Office: B101, Phone: 238-6074

Office: (972) 238-6059
E-Mail: zszabo@dcccd.edu
Lab: D257; (972) 238-6317

COURSE OUTLINE and/or ASSIGNMENT SCHEDULE:

LAST DAY TO DROP WITH A ``W`` Monday, September 10, 2007.

Topics	Home Work	Notes
Week 1 Aug 27, 29 Introduction Chapter 1 – An Introduction to Networking		
Week 2 Sept 3, 5 Sept 3rd – NO CLASS Chapter 2 - Networking Standards and the OSI Model		
Week 3 Sept 10, 12 Chapter 3 - Transmission Basics and Networking Media		
Week 4 Sept 17, 19 Chapter 4 - Network Protocols		Sept 17, DE1 Sept 19, DE2
Week 5 Sept 24, 26 Chapter 5 – Networking Hardware		
Week 6 Oct 1, 3 Chapter 6 - Topologies and Access Methods		Midterm 1 Oct 3
Week 7 Oct 8, 10 Chapter 7 – WANs and Remote Connectivity		Oct 8, DE 3 Oct 10, DE 4
Week 8 Oct 15, 17 Chapter 8 – Network Operating Systems and Windows Server 2003-Based Networking		
Week 9 Oct 22, 24 Chapter 9 – Networking with UNIX and Linux		
Week 10 Oct 29, 31 Chapter 10 – NetWare-Based Networking		
Week 11 Nov 5, 7 Chapter 11 – Networking with TCP/IP and the Internet		
Week 12 Nov 12, 14 Chapter 12 – Troubleshooting Network Problems		Midterm2 Nov 14

Week 13 Nov 19, 21 Chapter 13 – Ensuring Integrity and Availability		
Week 14 Nov 26, 28 Chapter 14 – Network Security		Nov 26, DE 5
Week 15 Dec 3, 5 Chapter 15 – Implementing and Managing Networks Plan/implement a network on your own		
Final week Dec 10 - 13 Final Week	Comprehensive final	