CS 6543 - Spring 2011
Computer Networks

Class Web Page

http://www.cs.utsa.edu/~korkmaz/teaching/cs6543

Time and Location

MW 8:30--9:45pm
SB 1.02.08

Instructor

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Office Hours

MW 10:30am—12:00pm (or by appointment)
MW after the class

Class Materials

- ***Required:*** For Part I: *Computer Networking: A top-down approach featuring the Internet*, Kurose and Ross, 5th edition, Addison Wesley, 2010. www.awl.com/kurose-ross
- ***Optional:*** For Part II: Mobile Communications by Jochen Schiller, Ad Hoc Wireless Networks by Murthy and Manoj, and Wireless Communications and Networks by William Stallings.
- ***Assigned Readings:*** A list of articles from the literature will be assigned through the semester.

Prerequisite

Programming experience in C or Java, and working knowledge of Unix operating system.

Course Objectives and Outline

Using the Internet as a vehicle, this course first introduces the underlying concepts and principles of modern computer networks, with emphasis on protocols, architectures, and implementation issues. Students learn how/why these protocols and architectures work while understanding the principles and tradeoffs involved in building such protocols and architectures. Secondly, the course covers advance topics including wireless networks, quality-of-service (QoS).
Students will also gain experience in performing research through reading, implementing and evaluating research papers. This year, Term projects will be about Wireless Sensor Networks. You may be asked to use sensor network kit from Crossbow Technology and learn TinyOS and program sensor nodes as part of project.

Grading

- Midterm 1: 25% EXAM DATE: TBD
- Midterm 2: 25% EXAM DATE: TBD
- Assignments: 30% (including programming and problem solving) ! NO LATE HW !
- Term projects: 20% (class presentations, demonstrations and final report)

Make-up examinations will be given if you have an officially acceptable excuse.

Final Grade Assignment

90-100	A
80-89	B
70-79	C
60-69	D
below 60	F

Note: I reserve the right to lower the grading scale if necessary to match the degree of difficulty of the tests.

Class Rules:

1. Class attendance is mandatory, students are responsible for content of the course and class notes. Reading of material prior to the lecture is highly encouraged.
2. Under NO circumstances make-up exams will be given. Unless evidence of serious incidents is presented. (Flat tires, driving the neighbor to hospital, etc… will NOT be accepted).
4. Programming homework should be submitted using WebCT (BB) on the due date before the lecture. Under no circumstances will late homework be accepted.
5. Final grade will be based on student's performance and instructor's discretion, NOT on class average (i.e., no drastic curves).
6. Instructor is open for exam scores discussion; however, bargaining will not be tolerated.
7. Discussion of homework solutions among fellow students is highly encouraged. Experience has proven that carbon copies of homework will only guarantee failure in the course.
8. Eating, drinking, smoking, and sleeping are not allowed during lecture time.
9. Late comers will be welcomed only if no more than 15 minutes of class lecture have elapsed. The student should take the first seat available closest to the entrance.
10. It is the student's responsibility to take care of any personal needs before exam time. No one will be allowed to leave the room after exam begins.

Academic Dishonesty:

As an entity of The University of Texas at San Antonio, the Department of Electrical Engineering is committed to the development of its students and to the promotion of personal integrity and self-responsibility. The assumption that a student's work is a fair representation of the student's ability to perform forms the basis for departmental and institutional quality. All students within the Department are expected to observe appropriate standards of conduct. Acts of scholastic dishonesty such as cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designated to give unfair advantage to a student, or the attempt to commit such acts will not be tolerated. The Coordinator for Student Judicial Affairs or faculty may initiate disciplinary proceedings against any student accused of scholastic dishonesty. Consequences of academic dishonesty may be as severe as dismissal from the University. See the website for the Students Code of Conduct at http://www.utsa.edu/infoguide/appendiceb.cfm for more information.

Information on the QEP for Course Syllabi

The Quality Enhancement Plan (QEP) is a course of action designed to enhance student learning and is a required component of the accreditation process conducted by the Southern Association of Colleges and Schools (SACS).

The UTSA QEP *Quantitative Scholarship: From Literacy to Mastery* provides you with the skills needed to evaluate and interpret data, understand risks and benefits, and make informed decisions in your personal and professional lives. The plan focuses on integrating quantitative reasoning and communication skills in **existing** courses across the undergraduate curriculum.

Disclaimer:

"This Syllabus is provided for informational purposes regarding the anticipated course content and schedule of this course. It is based upon the most recent information available on the date of its issuance and is as accurate and complete as possible. I reserve the right to make any changes I deem necessary and/or appropriate. I will make my best efforts to communicate any changes in the syllabus in a timely manner. Students are responsible for being aware of these changes."