

San Jose State University
Department of Electrical Engineering

EE283

High-Speed Computer Communication Networks

Spring 2008

Course:

Credit Hours: 3,

Time: Monday - Wednesday, 4:30pm-5:45pm,

Place: ENG 345

Prerequisites: First undergraduate or graduate course in networking or communications

Instructor and Office Hours:

Instructor: Nader F. Mir

Office: E251

Office Hours: Mondays: 11:45-1:00, and 3:30-4:30pm, and Wednesdays: 3:30-4:30pm

(Note: For questions, please come during office hours and please do not use email to contact me)

Text Book (Required):

“Computer and Communication Networks,” By Nader F. Mir, Prentice-Hall Publishing Co., ISBN: 0131747991, 1st edition Nov. 2006.

(Note: The text book can be obtained either from campus bookstore or through online stores such as: www.amazon.com.)

Course Topics:

1. Review of Computer Networking Fundamentals (Chapters 1, 2, and 3).
2. Packet Queues and Delay Analysis (Chapter 11)
3. Quality of Service in Advanced Networking (Chapter 12)
4. Architecture of High Speed Switches and Routers (Chapter 13)

Exam 1

5. Optical Networks (Chapter 14)
6. Multicasting Techniques and Protocols (Chapter 15)
7. VPNs, Tunneling, and Overlay Networks (Chapter 16)
8. Compression and Packetization of Voice and Video (Chapter 17)
9. Multimedia Networks and VoIP Protocols (Chapter 18)

Exam 2 (final)

Grading & Exams:

Homework/Project:	20%, Due in class.
Mid-term exam:	40%, (Wed. March 19th)
Final Exam:	40%, To Be Announced.
Attendance:	5% (bonus points based on random attendance check)

Total: 105%

Problem Solving Sessions:

Homework problem solving sessions will be conducted before each exam.

Exam/Dishonesty Policies:

Exam Policy: All exams including the final exam will be closed book and closed notes.

Exam Dates Policy: Except for extraordinary, documented situations, make-up exams will not be allowed. Therefore, at the beginning of the semester make sure that you have no exam or work conflicts. Students having disabilities which require special exam conditions are urged to consult the Disabled Students Office immediately and inform the instructor of any special needs within two weeks before any exam.

Honor Code - Dishonesty Policy: Cheating will not be tolerated. Students involved in cheating will receive grade "F". Students are strongly discouraged to leave the classroom during exams. Students must bring picture ID during all exams. The program will enforce the following EE Dept Honor Code that must be read and accepted by all students:

"I have read the Honor Code and agree with its provisions. My continued enrollment in this course constitutes full acceptance of this code. I will NOT:

- *Take an exam in place of someone else, or have someone take an exam in my place*
- *Give information or receive information from another person during an exam*
- *Use more reference material during an exam than is allowed by the instructor*
- *Obtain a copy of an exam prior to the time it is given*
- *Alter an exam after it has been graded and then return it to the instructor for re-grading*
- *Leave the exam room without returning the exam to the instructor."*

Measures Dealing with Occurrences of Cheating:

- *Department policy mandates that the student or students involved in cheating will receive an "F" on that evaluation instrument (paper, exam, project, homework, etc.) and will be reported to the Department and the University.*
- *A student's second offense in any course will result in a Department recommendation of suspension from the University.*