CMSC 417 — Computer Networks (Spring 1998)

Catalog Description
Computer networks and architecture. The OSI model including discussion and examples of various network layers. A general introduction to existing network protocols. Communication protocol specification, implementation, and measurement.

Prerequisites
CMSC 311, CMSC 330.

Administrative Information

When:	TuTh 11:00 a.m. - 12:15 p.m.
Where:	0405 PHY
Professor:	Leana Golubchik
Office:	4129 A.V. Williams Building
E-mail:	leana@cs.umd.edu
Office hours:	TuTh 1:30 - 2:30 p.m. or by appointment
Tel:	(301) 405-2751
TA:	Houman Alborzi
Office:	3136 A. V. Williams Building
E-mail:	houman@cs.umd.edu
Office hours:	Wed 3:00 - 4:00 p.m. and Fri 11:00 a.m. - 12:00 p.m. or by appointment
Tel:	(301) 405-2775
Class Web page:	http://www.cs.umd.edu/~leana/417/

List of topics covered in the course (as time permits):

- Introduction to data communication
- The physical layer
- Framing, error detection and correction
- Channel allocation
- Routing and congestion control algorithms
- Internetworking
- Transport protocols
- Network security and administration
- Applications (SMTP, HTTP, NNTP)

Required Text
Computer Network, 3^{rd} Edition, Tanenbaum, Prentice Hall, 1996.
Pthreads Programming, Nicols, Buttlar, and Farrell, O'Rielly & Associates, 1996.

Programming projects
The class will include a substantial programming project. The first two programming projects will be done individually. All of the remaining projects will be done in two person teams.

Grading

Final Exam	35%
Midterm	20%
Homework	10%
Programming Assignments	35%

Any schedule conflicts involving exam dates must be reported to Dr. Golubchik within one week of the announcement of the exam date.

Re-grade Policy
All requests to change grading of homework, programming projects, or exams must be submitted in writing (typed) within one week of when the assignment was made available for pickup. Requests must be specific and explain why you feel your answer deserves additional credit. A request to re-grade an assignment can result in the entire assignment being re-evaluated and as a result the score of *any* part of the assignement be increased or *lowered* as appropriate.

Academic Integrity
All work that you submit in this course must be your own; unauthorized group efforts will be considered academic dishonesty. See the Undergraduate Catalog for definitions and sanctions. Academic dishonesty is a serious offense which may result in *suspension or expulsion* from the University. In addition to any other action taken, the grade "XF" denoting "failure due to academic dishonesty" will normally be recorded on the transcript of students found responsible for acts of academic dishonesty. Sharing of code on programming assignements or solutions of homework assignments are forms of academic dishonesty.

Late Policy
50% off for being 1-24 hours late; 75% off for being 25-48 hours late; 100% off for being more than 48 hours late. If you are unable to complete a programming assignment due to illness or family emergency, please see Dr. Golubchik as soon as possible to make special arrangements.