

ENEE 426 – Communication Networks

University of Maryland, Spring 2009

General Information

- **Prerequisite:** ENEE 326, Engineering Probability
- **Schedule:** Mon/Wed, 3:30pm to 4:45pm
- **Location:** CHM 1224 (Chemistry Building)
- **Textbook:** Peterson & Davie, Computer Networks: A Systems Approach, 4th Edition
- **Instructor**
T. Charles Clancy, Adjunct Professor, ECE
Office Hours: 5-6pm Mon/Wed, 1357 AVW
Contact: tcc@umd.edu
- **Teaching Assistant:**
Kiran Somasundaram, Grad Teaching Fellow, ECE
Office Hours: 10-11am, Wed
Contact: kirans@umd.edu
- **Website:** <http://ece.umd.edu/~tcc/enee426>

Grading Policy

ENEE 426 is made up of two major sections: low-level networking and internetworking. The first portion will be covered primarily before spring break, and the second portion will be covered after spring break. Each section will involve a non-cumulative exam worth 30% of your course grade. Additionally, problem sets during both sections will be worth a total of 30%. Class participation will be worth 10%.

Attendance at all exams is mandatory – no makeup exams will be administered. Homework will typically be due at the start of class on Wednesdays. Homework turned in the following Monday will be accepted, but with only 60% of the points possible. Homeworks turned in the following Wednesday can only receive 40% of the possible points. Homeworks later than one week will not be accepted.

Tentative Course Topics

- Introduction (Ch 1)
- Communications Links; LANs (Ch 2)
- Medium Access Control (Ch 3)
- Wireless Networks (Section 2.8)
- Queueing Theory
- Packet Switching Performance
- Internet Protocol (Ch 4)
- Routing; Mobility (Ch 4)
- UDP & TCP (Ch 5)
- Congestion & Flow Control (Ch 6)
- Communication and Compression (Ch 7)
- Network Security, Access Control (Ch 8)

Course Resources

A list of resources, including the latest version of this syllabus, will be made available on the course web page. Additionally, a course email list will be used for corrections, clarifications, or additional discussions.

Academic Dishonesty

You may discuss homework problems and general solution strategies with classmates, but when it comes to formulating and writing solutions you must work alone. If you make use of other sources in coming up with your answers you must cite these sources clearly. This includes papers or books in the literature, friends or classmates, and information downloaded from the web. Instances of academic dishonesty will be dealt with harshly, will usually result in a hearing in front of a student honor council, and may result in a failing grade.