Lectures:

TR 11:00 AM – 12:15 PM, ECSS 2.203

Instructor:

Jason Jue
Office: ECS 4.408
Office Hours: TR 12:15 – 1:30 PM, or by appointment
E-mail: jjue@utdallas.edu
Phone: (972) 883-4429
URL: http://www.utdallas.edu/~jjue/cs4390/

Prerequisite:

CS/SE 3345, programming skills in C/C++ and/or Java, and working knowledge of a UNIX-based operating system.

Required Text:


Course Description:

The design and analysis of computer networks. Topics include: the OSI reference model, transmission media, medium-access protocols, LANs, data link protocols, routing, congestion control, internetworking, and connection management.

Course Objectives:

Ability to understand the need for and structure of the OSI, TCP/IP network models
Ability to design and evaluate methods for the framing messages in transmission media
Ability to analyze and evaluate different error detection schemes
Ability to understand and evaluate stop-and-wait, sliding window protocols
Ability to understand and evaluate multiple-access protocols
Ability to design and evaluate routing protocols
Ability to design and evaluate flow control and congestion control protocols
Ability to understand the issues in internetwork design
Ability to understand the various Internet protocols (TCP/IP)
Ability to write networking protocols

Grading:

Homework: 15%
Project: 25%
Midterm: 30%, Thursday, February 23, 2006, in class
Final: 30%, Tuesday, April 25, 2006, 11:00 AM
Course Policies:

Homework will be due in class on the due date, and must be submitted in the section in which you are enrolled. Late homework will incur a penalty of 20% per day late up to a maximum of three days.

Exams must be taken during the section in which you are enrolled. Makeup exams will be permitted only for valid, documented reasons. Arrangements for makeup exams must be made well in advance of the exam dates.

Homework, projects, and exams are to be individual efforts. Copying of homework, projects, or exams, in whole or in part, from other students or from assignments from previous semesters will be considered to be an act of scholastic dishonesty. For projects, you are not to copy or distribute code from any other sources. In particular, you are not to share or copy code from other students or code from projects submitted in past semesters. Plagiarism detection software will be employed to detect copying of code on projects. If you are in doubt regarding the use of certain code, ask the instructor.

Students who violate university rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the university. Since such dishonesty harms the individual, all students and the integrity of the university, policies on scholastic dishonesty will be strictly enforced. In most cases of scholastic dishonesty, a grade of F in the course will be the recommended penalty. For further information on university policies, see: http://www.utdallas.edu/judicialaffairs/.