

**CS 6385-001: Algorithmic Aspects of
Telecommunication Networks – Spring, 2007
Jan. 9, 2007**

Instructor

Prof. S.Q. Zheng

Office Hours: 1:00 - 2:00 pm, Thursday; 8:00 - 9:00 am Friday. Additional office hours by appointment.

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Teaching Assistant

Myung-Ah Park

Office Hours: Tuesday 9 - 11 am in room ECSS 2.104A; Thursday 2 - 4 pm in room ECSS 4.705.

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Prerequisites

CS 5333, CS 5343 and a first course on probability.

Textbook

Wide Area Network Design, by Robert S. Cahn, Morgan Kaufmann Publishers, 1998.

The lectures are based on lecture notes, which are derived from the textbook. Some material in the notes are additional; it is not in the textbook.

Reference

Planning Telecommunication Networks, by T.G. Robertazzi, IEEE Press, 1998 (Can be found in Library reserve section).

Lectures

11:30 am - 12:45 pm, TR, ECSS 2.305

Material Covered

The focus of this course is the algorithmic aspect of design and analysis of telecommunication networks. Network design problems and solutions to these problems as algorithms will be presented. Techniques for network analysis in the context of the design and planning of networks will be discussed.

Homeworks

There will be several homeworks. Some of the homeworks will be graded. Homework grades are not counted in the course grade. Solutions will be provided.

Projects

There will be one programming project. Each student is expected to do the projects independently.

Webpage

You can use direct link <http://www.utdallas.edu/~sizheng/CS4349-001-07-spring.html> or WebCT to access class material (lecture notes, homework and project assignments, homework solutions, and other information).

Exams

There will be three exams, to be held in classroom ECSS 2.305.

Test I: Thursday, Feb. 15, during regular class time.

Test II: Thursday, March 15, during regular class time.

Final Exam: Tuesday, April 24, 11:00 am - 1:00 pm.

Grading

Grades will be based on the following components:

Test I: 25%

Test II: 25%

Final Exam : 40%

Project: 10%

Some General Comments and Rules

- There will be no make-up exams. Exceptional cases, such as illness or accidents, will be handled on an individual basis (Instructor must be notified prior to the exam and proof presented - otherwise a score of zero will be given).
- Students will have one week from the result of the midterm exam is returned to seek corrections on the grading. After that, no changes will be made to scores.
- No project report is accepted after April 24, 2007.