Syllabus: ECE-S302 Transform Methods and Filtering
Winter 2007

Instructor: Professor Gail L. Rosen
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Office Hours:
Prof. Rosen: Tuesday 3:30-5 PM
Mr. Kalghatgi: Tue: 1-2 PM and Wed: 3-4:30 PM


Reference Texts:

Course Description: The goal of the course is to introduce students to the basic types of signals and systems encountered in engineering and the important properties of these systems. Methods for modeling and analyzing continuous-time and discrete-time signals and systems in the time domain and frequency domain will be introduced. Systems properties, such as linearity, causality, and time-invariance will be discussed, and system characterization via impulse response and general transfer functions will be covered.

Homeworks: Problem solving is an extremely important vehicle for mastering the material of this course. Many problems will be assigned, but only one or two problems will be randomly graded per assignment. It is in your best interest to master the homeworks to do well on the quizzes. You will also have an option to discard your homework grade in favor of using your whole quiz grade.

Quizzes and Exams: There will be about 8 quizzes (approx. 15 min. each on Thursdays). You will be allowed to drop the 3 lowest grades. There will be one midterm exam on February 8th, 2007. NO MAKE-UP QUIZZES WILL BE GIVEN. NO MAKE-UP EXAM WILL BE GIVEN WITHOUT PRIOR FORMAL EXCUSE WHICH MUST BE SUBMITTED TO THE INSTRUCTOR. The TA will grade the quizzes, and the instructor will grade the exams.

Final Exam: The Final exam is a comprehensive two-hour test. Final exam dates will be posted on Monday of the fourth week of the current term. Exam schedules can be located at:
http://www.drexel.edu/registrar/exam_schedules.asp. The location of the exam is announced on the ninth week.

Help-Sessions: The Friday class is a recitation where the instructor will work problems and expand upon concepts. Help sessions will be arranged upon request for reviewing problem solutions with the instructor prior to exams. Mock exams from a previous instructor will be provided, though my style may differ.

Grading: The course grade will follow one of two formulas. Those who like in-class quizzes:

\[ \text{Grade} = \text{Quizzes} \times 0.25 + \text{Midterm Exam} \times 0.35 + \text{Final} \times 0.45 (+ \text{class participation}) \]

and Those who like graded homework:

\[ \text{Grade} = \text{Homeworks} \times 0.1 + \text{Quizzes} \times 0.2 + \text{Midterm Exam} \times 0.3 + \text{Final} \times 0.45 (+ \text{class participation}) \]