EE 110A Signals and Systems
Department of Electrical Engineering, University of California at Riverside, Fall 2013
Lectures: TR 02:10 PM - 03:30 PM at SPTH 2200

Instructor:
Dr. Hamed Mohsenian-Rad
Office: WCH 436
E-mail: hamed@ee.ucr.edu
Office Hour: Tuesday 10:30 – 11:30 AM

TAs:
Tian Lang and Shu Zhang
Office: WCH 109
E-mails: tian.lang@email.ucr.edu, shu.zhang@email.ucr.edu
Office Hour: Tian Lang: Mon 1:00 – 2:15 PM
Shu Zhang: Wed 3:00 – 4:15 PM

Textbook:

Prerequisites:
EE 001B with a grade of "D-" or better OR EE 020 with a grade of "D-" or better AND MATH046 with a grade of "D-" or better

Course Objective:
To provide an introduction to fundamental concepts & tools for analysis of signals and systems.

Weekly Schedule (Estimate):
- Weeks 1-2: General Concepts of Signals and Systems (Chap. 1): Typical class of signals, typical class of systems, important concepts and properties.
- Weeks 5-7: Fourier Analysis (Chap. 3, Chap. 4): Frequency response of LTI systems, Fourier series, Fourier transforms and their properties, convolution theorems.
- Weeks 8: Frequency domain analysis (Chap. 6): Magnitude-phase representation, first order systems, basics of frequency selective filters.
- Weeks 9-10: Laplace Transformation (Chap. 9): Laplace transform, region of convergence, properties of Laplace transforms, typical Laplace transform pairs, inverse Laplace transformation, application to system analysis.
Course Material:
Course handouts, assignments, and all other course materials will be posted on iLearn.

Labs:
M 06:10 - 09:00 PM, or W 08:10 - 11:00 AM, or W 11:10 AM - 02:00 PM.

Assignments:
Homework assignments are due in one week to be returned at the beginning of the class.
Lab assignments are due in one week to be returned at the beginning of your Lab session.

Exams:
Mid-term exam will be on October 9, 2013 from 2:10 PM to 3:30 PM in Class.
Final exam will be on December 13, 2013 from 11:30 AM to 2:30 PM.

Grading:
Mid-term Exam: 20%  Final Exam: 40%  Homework: 20%  Lab: 20%

Quizzes:
Pop-up quizzes will be given during some lectures. Each quiz should not take more than five to ten minutes to complete. This will be bonus credit added to your grade (total 5%).

Academic Dishonesty:
Every member of the UCR community is expected to practice honorable and ethical behavior both inside and outside the classroom. Any actions that might unfairly improve a student’s score on homework, quizzes, labs, or examinations will be considered cheating and will not be tolerated. Please check relevant policies on academic integrity posted on the EE department website at http://www.ee.ucr.edu/current-students/academic-integrity.html. At the professor’s discretion, cheating on an assignment, quiz, lab report, or examination will result in a failing grade for the entire course, or a reduced grade, or a zero score for the particular assignment, quiz, lab report, or exam. All occurrences of academic dishonesty will be reported to the corresponding UCR officers. If there is any question as to whether a given action might be construed as cheating, please see the professor or the TA before you engage in any such action.