

ECE 108 Signals and Systems
Spring 2007, Instructor: Tiffany Li
Course Syllabus

1. **Time and Room:** Lecture MWF 9:10-10:00am, Maginnes Hall 102
Recitation R 8:20-9:10am, 9:20-10:10am, 10:45-11:35am, Rauch 050
2. **Instructor:** Tiffany Li, ext. 83305, office PL406B, jingli@ece.lehigh.edu
3. **Office Hours:** 10:10-11:00am (MWF) or by appointment
4. **Text:** *Signal Processing Linear Systems*, by B. P. Lathi, Berkeley-Cambridge Press (1998)
5. **Objectives:** Upon successful completion of the course, students will be able to
 - model continuous and discrete time signals
 - represent periodic signals using Fourier Series
 - represent aperiodic signals using Fourier transforms
 - analyze linear systems using Fourier and Laplace transforms
 - analyze digital systems using Z-transforms
6. **Honesty Policy:** Students are expected to adhere to the academic honesty guidelines outlined in the Student Handbook. Violators will be referred to the appropriate Dean's office.
7. **Withdrawal:** Please refer to the Student Handbook for college policy regarding withdrawals.
8. **Attendance:** Required. Students who know in advance that class will be missed are expected to make arrangements with me for homework assignments, class notes, etc.
9. **Grading:** Lecture grade is determined by 7-9 homeworks (25%), 5 short quizzes (25%), one midterm (15%) and a final exam (35%).
10. **Homework:** Weekly homework assigned every Monday, collected the next Monday before class, and graded and returned on Thursday during the recitation session. **No late homework accepted.**
11. **Topics:**
 - Chapter 1: Introduction to Signals and Systems
 - Chapter 2: Time Domain Analysis of Continuous-Time and Discrete-Time Systems
 - Chapter 3: Fourier Series and Periodic Signals
 - Chapter 4: Fourier Transforms and Aperiodic Signals
 - Chapter 5: Sampling and Discrete Fourier Transforms
 - Chapter 6: Laplace Transforms
 - Chapter 8-11: Discrete Time Signals and Z Transforms