**ECE 108 Signals and Systems**
**Spring 2008, Instructor: Tiffany Li**
**Course Syllabus**

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1. **Time and Room:** Lecture MWF 9:10-10:00am, Maginnes 112
   Recitation R 8:20-9:10am, 9:20-10:10am, 10:45-11:35am, Rauch 050

2. **Instructor:** Tiffany Li, x83305, 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) ISBN: 0-19-521917-1

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. **Withdrawl:** 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 9-12 homeworks (25%), 4-5 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 & 9: Discrete Time Signals and Systems
- Chapter 10: Fourier Analysis of Discrete-Time Signals and Systems
- Chapter 11: Discrete-Time System Analysis Using Z-transforms and Z Transforms

12. **Safety Issues:**

    - All Lehigh members are encouraged to register their contact information by going to http://www.lehigh.edu/lu-alert and then following the instructions for registration. Cell phone numbers collected through this process will be stored in a secure database and will only be used in the event of an emergency.
    - Please access and become familiar with the information regarding an emergency: http://www.lehigh.ed
    - Additionally, students should be aware of all classroom exits and the telephone numbers of the appropriate authorities as listed below:
        - Lehigh Police Department (610) 758-4200
        - Bethlehem Police 9-911 (On Campus Telephone) or 911
        - Emergency Medical Services (LUEMS) (610) 758-4200
        - Lehigh University Hotline (610) 758-NEWS (6397)
        - Environmental Health and Safety (610) 758-4251

13. **Accommodations for Students with Disabilities:** If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center C212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.