

# ECE 352

## Signals and Systems II

Spring 2007

**Instructor:** Dr. Think Nguyen

**Credits:** 4

**Meeting Time:** 3 50-minutes per week

**Location:**

**Office Hour:** TR 9-10 AM

**Text:** *Signals and Systems, Simon Haykin and Barry Van Veen, Second Edition*

### Course Description:

This course covers analytical techniques for signal, system, and circuit analysis.

### Prerequisites:

ENFORCED PREREQS: ECE 351 OTHER PREREQS: ECE 112 or ECE 272 or ECE 375.

### Topics:

- Last part of Chapter 3: Fourier Representations of Signals and Linear Time-Invariant Systems
- Chapter 4: Applications of Fourier Representations to Mixed Signal Classes
- Chapter 5: Application to Communication Systems
- Chapter 6: Representing Signals by Using Continuous-Time Complex Exponentials: the Laplace Transform
- Chapter 7: Representing Signals by Using Discrete-Time Complex Exponentials: the z-Transform
- Chapter 8: Application to Filters and Equalizers

**Grading Policy:** 20% Lab assignments.

10% Homeworks

20% Midterm 1

20% Midterm 2

30% Final