

EE 205

Signals and Systems

Spring 2014

Instructor: M. Soumekh
Office: 220 Davis Hall
Office Hours: Tuesdays & Thursdays 5:00 PM – 5:50 PM

Teaching Assistants: Amir Daneshmand, Borui Chen, Paolo Scarponi

Textbook: *Continuous and Discrete Signals and Systems*, Soliman & Srinath, Prentice Hall, 1998

Tentative Schedule and Reading Materials:

Chapter 1: Introduction to Signals

- 1.6 Elementary Signals (1.6.1-1.6.4)
- 1.3 Periodic/Aperiodic Signals
- 1.4 Energy and Power Signals
- 1.5 Time Transformations (1.5.1-1.5.3)

Chapter 2: LTI Systems

- 2.2 Continuous-Time Systems (2.2.1-2.2.4, 2.2.6)
- 2.3 Linear Time-Invariant Systems: Convolution Integral
- 2.4 Properties of LTI Systems

Chapter 3: Fourier Series

- 3.3 Fourier Series Representation of Periodic Signals
- 3.5 Linearity and Shift Properties of Fourier Series (3.5.3, 3.5.7)
- 3.6 Output of an LTI System for a Sinusoidal/Periodic Input

Chapter 4: Fourier Transform & Applications

- 4.2.1 Fourier Transform Representation of Aperiodic Signals
- 4.2.3 Examples of Fourier Transform
- 4.3 Properties of Fourier Transform
- 4.4.1 Amplitude Modulation
- 4.4.3 Sampling

Course Web Site:

<http://www.eng.buffalo.edu/Courses/ee205> (to be updated)

All information with regard to the course, for example,

- Homework Assignments
- Computer Laboratory/Problem Solving Sessions
- Exams

will be posted at the above web site. Homeworks will not be collected and graded; homeworks have no contribution towards the final grade. The homework problems will be reviewed and solved in the recitations.

Tentative Schedule for Exams & Contribution to Final Grade:

Exam #1	March 6th	50%
Exam #2	May 8th	50%

The problems in the exams will be from the homework assignments and examples that are solved in the lecture. Computers, calculators with memories, class notes, and the course textbook are not allowed. It is required to have your student ID at each exam.

Grading Policy:

Final letter grades are determined based on the percentage of the total grade. The letter grades are based on the following:

A	91-100 percent
A-	86-90 percent
B+	81-85 percent
B	76-80 percent
B-	71-75 percent
C+	66-70 percent
C	61-65 percent
C-	56-60 percent
F	0-55 percent