ECEN 3300
Linear Systems
Class Meeting 1

Course Preliminaries
Today’s Topics

• Course Overview
  – Instructor/grader, website and grading
• Course Objectives
• Course Outline
Instructor, Grader, office hours

- **Instructor – Alan Mickelson**
  - alan.mickelson@colorado.edu
  - Office: ECEE 130 - Office Phone: (303)492-7539
  - Office Hours
    - M 9:00 – 9:50 a.m.
    - Th 3:00 – 3:50 p.m.

- **Grader – Keyon Janani**
  - Keyon.janani@gmail.com
  - Office hours
    - M 12:00 – 1:50 p.m.
    - Th 2:00 – 2:50 p.m.
On the Website
ecee.colorado.edu/~ecen3300/

- [http://ecee.colorado.edu/~ecen3300/](http://ecee.colorado.edu/~ecen3300/)
- Syllabus/Schedule
-Homeworks are posted
- Powerpoint lecture slides will be posted as pdf’s after class
- Other useful material will be posted such as class announcements
Grading

• Grading
  – 10 homeworks (20%)
    • Due dates are 1/25/16, 2/1/16, 2/8/16, 2/15/16, 2/29/16, 3/7/16, 3/14/16, 4/4/16, 4/11/16, 4/18/16
  – 4 midterms (80%)
    • 2/19/16, 3/18/16, 4/15/16 and final exam period
Course Objectives

After taking this course students will be able to recognize and use the following concepts, ideas, and/or tools:

• Linearity and time-invariance, including impulse response, step response, and convolution.

• Continuous-time (CT) versus discrete-time (DT), including CT and DT signals and systems, differential and difference equations, and sampling and interpolation.

• Time domain versus transformed domain, including Laplace and z-transforms, system functions, Fourier transforms, frequency response, and filter analysis/design.
Course Outline and Schedule

• Linear Systems (6 weeks)
  – Chapters 1 and 2

• Convolution and Fourier Transform (5 Weeks)
  – Chapters 3 and 4

• Sampling of Waveforms (5 Weeks)
  – Chapters 5 and 7