

## Lecture 1 – 08/24/2015

- Forward
  - Signals and Systems
  - Time is an independent variable
- Discrete-time and Continuous-time signals
- Signal Energy and Power
  - Voltage-Current-Resistance Example
  - Definition of Energy and Power
- Classification of Signals
  - Signals with finite energy
  - Signals with infinite energy and finite power
  - Signals with infinite power
  - Scaling of energy
- Transformations of the independent variable
  - Time shift
  - Time reversal
  - Time scaling
  - Figures 1.8 – 1.12
  - Example 1.1
- Reading Assignment
  - Examples 1.2 & 1.3