

430.306(.003): Signal and Systems

CONTACT INFORMATION

Lecturer) Prof. Byonghyo Shim (bshim@snu.ac.kr)

TA) Junhan Kim, Hyunkyu Joo, and Kwangjin Lee (#1117 Bldg. 301, {junhankim, hkjoo, kjlee} @islab.snu.ac.kr)

Class time and location) Tuesday and Thursday, 11:00am ~ 12:15pm in Bldg 301-201

Office hour) After class or by email appointment

TEXTS

Oppenheim, Willsky, and Nawab, *Signals and Systems*, 2nd edition, Prentice Hall.

Prerequisite courses: calculus (engineering math), basic electric circuits

GRADING POLICY

There will be **two midterms** and **final exam**. Exam is closed book but you can bring a cheating sheet (one A4 page for the midterm and final). You can use both sides of the paper to write your favorite formulae, definitions, homework solutions on the sheets. However, such tactics usually time-wasting and not so helpful.

- Homework[20%] : Weekly homework and irregular attendance check
- Two mid-terms [20% each] (In class @April and May, TBD)
- Final exam [30%] (In class @June, TBD)
- Quiz and attendance [10%] (At least two times in class, date might not be notified)

OVERVIEW OF THE COURSE AND TENTATIVE SCHEDULE

- Ch. 1 Basics of signals and systems
- Ch. 2 Linear time-invariant (LTI) systems
- Ch. 3 Fourier series representation of periodic signals
- Ch. 4 Continuous-time Fourier transform
- Midterm exam I
- Ch. 5 Discrete-time Fourier transform
- Ch. 6 Time and frequency characterization of signals and systems
- Ch. 7 Sampling
- Midterm exam II
- Ch. 8 Communication systems
- Ch. 9 Laplace transform
- Ch. 10 Z-transform
- Final exam