

Syllabus
EEL 3135: Discrete-Time Signals and Systems

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TA: Andy Lin

Class meeting: Tuesday, 8th and 9th periods, NEB 202; Thursday, 9th period, NEB 202.

Textbook:

James H. McClellan, Ronald W. Schafer and Mark A. Yoder, *DSP First: A Multimedia Approach*, Prentice Hall, Upper Saddle River, NJ, 1998. (ISBN 0-13-243171-8)

Note: Material in the textbook will be supplemented with extensive lecture notes and in-class computer demonstrations of applications; these materials as well as homeworks and solutions will be posted to the class web site on a regular basis.

Course objectives:

This course introduces signals and systems and the mathematical tools to design and analyze them; it lays the foundation for many, many other topics in electrical and computer engineering including circuits, control, communication and signal processing.

Grading:

- **Homeworks (30%):** Homework will be distributed and graded on a regular basis; at the end of the semester, your lowest homework grade will be dropped. As such, *late homeworks will not be accepted*.
- **Exams (70%):** There will be three exams in the class: (1) exam #1 (approx. 6th or 7th week), (2) exam #2 (approx. 13th or 14th week), and (3) the final exam (5/2, 12:30pm - 2:30pm). At the end of the semester, your lowest exam grade will be dropped; each of the remaining two exams will constitute 35% of your grade. Note that if you do well on the first two exams, this means that you will not have to take the final exam!

Class e-mail:

Many class announcements, clarifications and answers to student questions will be distributed primarily via e-mail. To get on the class e-mail list, you should send an e-mail to [<nechyba@mil.ufl.edu>](mailto:nechyba@mil.ufl.edu) with the *subject* of the e-mail being **EEL3135**.

Mathematical software:

Some of the homework assignments will require the aid of a computer and mathematical software package. While you may choose to use any of the following in your homework — Mathematica, MATLAB, MathCad or Maple (all available at student prices), I will only support the first two — Mathematica and MATLAB in class. Mathematica will frequently be used in class for simulations and examples, as it is the most sophisticated general purpose mathematical software package available, allowing text, equations, graphics, numerical and symbolic mathematics to be seamlessly integrated into notebooks. Tutorials on Mathematica and MATLAB will be demonstrated early in the semester, highlighting the advantages and disadvantages of each.

Academic honesty:

All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action.

This statement is a reminder to uphold your obligation as a student at the University of Florida and to be honest in all work submitted and exams taken in this class and all others.