University of Florida  
Department of Electrical and Computer Engineering  
Course Outline  

**EEL 3135 (Section 0100) — Discrete-Time Signals and Systems**  
**Fall, 2004**

**Pledge:** We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.


**Grading:**

- Quizzes 30 %
- Exams (10/07/04, 12/02/04, and 12/15/04) 70 %
- Final Exam (12/15/04, 5:30 - 7:30 pm)

At the end of the semester, your lowest quiz grade will be dropped. Your lowest exam grade will also be dropped. Each of the remaining two exams will constitute 35% of your grade. Note that doing well on the first two exams means that you will not have to take the final exam.

**Content:** The primary focus of this course is on the fundamental aspects of discrete-time and continuous-time signals and systems. Topics include spectrum representation, sampling theory, Z-transform, FIR and IIR filters, and Fourier series and Fourier transform.

**Prerequisite:** Prereg: MAC 2313, CGS 2425 or CIS 3020; Coreq: EGM 3311 or MAP 2302.

**Instructor:** Dr. Jian Li

**Office:** 437 EB;  Phone: 392-2642;  Email: li@dsp.ufl.edu

**Office Hours:** 3rd Period on Tue. and Thur., 4th Period on Fri., or by appointment.

**TA:** David O’Steen (Email: dosteen81@yahoo.com).

**TA Office:** 222 EB TA Office and EB PC Lab
**TA Office Hours:** Mon: 10:40 am – 12:30 pm; Wed: 10:40 am – 11:30 am.

**Topics:** Tentative:

1. Introduction to MATLAB – 1 lecture.
2. Sinusoids and Phasors – 3 lectures.
4. Sampling and Aliasing – 5 lectures.
5. FIR Filters, Convolution, and LTI Systems – 5 lectures.
8. IIR Filters – 5 lectures.

**Course URL:** http://www.sal.ufl.edu/eel3135/eel3135.htm

**Miscellaneous:** Homework problems and laboratory projects will be assigned and discussed on a regular basis. You are responsible for all assignments, changes of assignments, announcements of exam and quiz dates, and other course-related events which occur in class.

MATLAB will be used in this class. You should buy a student version MATLAB and install it on your computer. MATLAB is a wonderful tool for learning the material in this course.

Try www.varsitybooks.com for cheaper books.