

# **SYLLABUS FOR ECE 306L - INTRODUCTORY DSP LAB**

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**OFFICE HOURS** Announced in class

## **COURSE DESCRIPTION**

ECE 306L is a lab that makes use of simulation software, spectrum analyzers and DSP hardware to find the spectrums of signals, to reconstruct signals from their samples and to implement digital and active filters. The writing of good, clear, easy to follow lab reports is stressed. Labs will cover the following topics

- Fourier Series Of Continuous Periodic Signals
- Transition From Continuous To Discrete Systems
- Introduction To Digital Filters

**PREREQUISITE** ECE 306

## **LAB MATERIALS**

Every student is required to obtain . . . . .

## **PRELABS**

Prelabs are due at the beginning of the lab.

## **LAB WORK**

You are encouraged to discuss the labs with your partner and others in the lab as well as the instructor. But everyone is required to take their own measurements.

## **LAB REPORTS**

Lab reports are due at the beginning of the next lab period. Organization and neatness count a lot. In particular be sure to describe what you're doing, draw pictures and label all graphs.

## **NOTEBOOKS**

Keep all lab handouts and returned lab reports in an accopress binder (Senior Project Binder). These notebooks will be due at the end of the quarter and will be graded on organization, neatness, completeness and your correcting of returned lab reports (in red ink). These notebooks must contain the following items in the following order with dividers as indicated -

- Title Page with your name
- Syllabus
- Divider
- Your class notes
- Divider
- List of Experiments
- Printed copies of Labs handed out in class
- Divider
- Returned Lab Reports with dividers between sections indicated in the List of Labs

## **GRADING**

Points will be given for work done as follows:

- Prelabs - 5 points
- Quizzes - 5 points
- Lab Demos - 10 points each
- Lab Reports - 10 points each
- Lab Notebook - 25 points
- Lab Final - 100 points

## **DROPPING**

Note that Engineering students cannot drop classes after the third week unless there are documented extenuating circumstances. See the College of Engineering policy.