

EECS 206: Introduction to Signals and Systems

Laboratory Syllabus

Fall 2001

Laboratory Sections:

Section 3:	Monday, 11:30AM - 1:30PM	3427 EECS	Bartsch
Section 4:	Monday, 3:30PM - 5:30PM	3427 EECS	Zeitz
Section 5:	Wednesday, 11:30AM - 1:30PM	3427 EECS	Poupard
Section 6:	Wednesday, 3:30PM - 5:30PM	3427 EECS	Zeitz
Section 7:	Tuesday, 9:30AM - 11:30AM	1301 EECS	Hsin
Section 8:	Tuesday, 11:30AM - 1:30PM	1301 EECS	Kragh
Section 9:	Thursday, 9:30AM - 11:30AM	1301 EECS	Hsin
Section 10:	Thursday 11:30AM - 1:30PM	1024 FXB	Poupard
Section 11:	Tuesday, 5:30PM - 7:30PM	3437 EECS	Kragh

Graduate Student Instructors:

Name	E-mail	Office Hours
Mark Bartsch	mbartsch@umich.edu	Wed 12-2
Fred Zeitz	fzeitze@eeecs.umich.edu	Th 12:30-3; Fri 1-2:30
Baptiste Poupard	bpoupard@umich.edu	Mon 5-7; Wed 4:30-6:30
Tom Kragh	tkragh@eeecs.umich.edu	Tue 1:30-5:30
Chih-fan Hsin	chsin@umich.edu	Mon 1-3; F 10-12

Office hours will be held in EECS 4338, phone #764-5206.

Laboratory Assignments

Laboratory assignments will be assigned roughly weekly. Unless otherwise noted, the laboratories will be due one week from the date on which they are assigned at the beginning of your laboratory section. Laboratory reports will typically not be assigned the week before class exams. A tentative laboratory schedule with topics follows:

Week of 9/10/01	Laboratory #1	MATLAB Introduction
Week of 9/17/01	Laboratory #2	Complex Numbers and Sinusoids
Week of 9/24/01	Laboratory #3	Basic Spectral Analysis: Fourier Series
Week of 10/1/01	No lab assigned	Exam #1 Review
Week of 10/8/01	Laboratory #4	Images, Coding, and Compression
Week of 10/15/01	Laboratory #5	FIR Filtering
Week of 10/22/01	Laboratory #6	Detection and Decoding
Week of 10/29/01	No lab assigned	Exam #2 Review
Week of 11/5/01	Laboratory #7	Speech Lab I
Week of 11/12/01	Laboratory #8	Speech Lab II
Week of 11/19/01	No lab meeting	Happy Thanksgiving!
Week of 11/26/01	Laboratory #9	Speech Lab III
Week of 12/3/01	Laboratory #10	Speech Lab IV
Week of 12/10/01	No lab meeting	

Laboratory Submission Guidelines

1. Laboratory reports will be submitted by laboratory groups of two (or, if necessary, three) students. Only one laboratory report needs to be submitted per group. The names of all group members must appear at the top of the report. All members of the group will receive the same grade on the submitted laboratory.
2. While students are encouraged to discuss the laboratories among themselves, each group's laboratory report should be the work of that group's members alone.
3. Hard copies of all laboratory reports must be handed in at the beginning of the laboratory section during which the reports are due. Late laboratory reports will not be accepted.
4. In general, laboratories must be typed. It is strongly recommended that a word processor that can handle figures, such as Microsoft Word, be used.
 - (a) Figures must include axis labels (including units, when appropriate) and a caption with a figure number. If figures are printed separately from the text of the report, they must be included at the end of the laboratory report and referenced in the text of the report.
 - (b) All code should be commented. Code should be printed with a fixed-width font such as Courier or Courier New.
 - (c) Analytic calculations and graph annotation may be performed by hand.
5. Laboratory reports for this course do *not* need to be formal laboratory reports. Instead, the reports will have two main sections. The first section contains "answers" to the numbered problems in the laboratory assignment. These may be numeric solutions, written explanations, analytic computations, plots and graphs, or whatever else is required. The second section is an appendix containing all of the MATLAB code needed to generate your answers for the first section. In general, you should write a MATLAB script that performs all of the required computation and generates the required graphs. Then, include this script as the second section of your laboratory report. Make sure you also include any and all functions that were written for the laboratory as well. It is *not* necessary to include MATLAB code that is provided to you on the course webpage.