ECE538 Digital Signal Processing I
Fall 2006
Information Sheet

Lecturer: Professor Michael D. Zoltowski
Office: MSEE 356
Telephone: (765) 494-3512
FAX: (765) 494-xxxx
E-mail Address: mikedz@purdue.edu or michael.d.zoltowski.1@purdue.edu
Course web site: http://shay.ecn.purdue.edu/~ee538/
Office Hrs: TBA – watch web site
Mailing Address: Professor Michael Zoltowski
School of Electrical and Computer Engineering
Electrical Engineering Building
465 Northwestern Ave.
Purdue University
West Lafayette, IN 47907-2035

TA : TBD
Office: TBD
Telephone: TBD
FAX: TBD
e-mail Address: iTBD
Office Hrs: TBD


Reference: Mathworks, Student Edition of Matlab, Version 5 or higher, Prentice-Hall, NJ.

Scheduled Class Time (Live Lecture): T Th 12:00-1:15 pm in POTR Studio A

Grade Breakdown:
3 Hour Exams: 60% (20% each)
Computer Projects: 20%
Final Exam: 20%

Examination Dates: TENTATIVE
Test 1: TBA
Test 2: TBA
Test 3: TBA
Final: TBA
Labor Day Break: Sept. 4
October Break: Oct. 9-10
Thanksgiving Break: Nov. 22-24

Homeworks:
Regular homework will be assigned but not collected. Your main homework is to work through my exams from past semesters. Solutions will be scanned in and posted at the course web site. Note: it is important that you attempt the problems assigned, as homework
is an integral part of the learning process and aids immensely in helping you keep abreast of lecture material. Homework also serves as an integral part of the examination preparation process.

**Computer Projects**

There will be 3 assignments involving the use of a computer to simulate signals, perform digital filtering, spectral analysis, adaptive filtering, etc. Successful completion of these assignments will be worth 20% of your final grade. The assignments are not intended to be difficult from a programming standpoint, nor are they intended to be time consuming. Use of the Matlab software package greatly facilitates execution of these assignments. Note that I will do Matlab-based computer demos in-class on a regular basis.

New **On-Campus** graduate students should see the ECN site specialist as soon as possible to get an account on the Engineering Computer Network (ECN) at Purdue. For **Off-Campus** students, if you do not have access to Matlab at work, you may consider purchasing the student PC version of Matlab which you can purchase on-line at The Mathworks Web Site.

**Course Web Site**

The course web site is http://shay.ecn.purdue.edu/~ee538/ There will be a variety of useful material and information posted at the course web site, including:

- general course information and announcements including syllabus, office hours, contact info., etc.
- scanned versions of the handwritten lecture notes in acrobat pdf format posted right after each live lecture
- Matlab script files used for in-class demos and accompanying audio or video files
- homework assignments in html and acrobat pdf format along with accompanying solutions scanned in acrobat pdf format
- Matlab script files facilitating the computer projects along with solutions to the computer mini-projects

**Office Hours:**

My tentative office hours are listed on the front page but are subject to change; they will be finalized by the end of the first week along with the office hours of the Teaching Assistants. Note that if I am on the telephone talking to another student, your call will be transferred to my secretary’s office after several rings. If you wish, you may leave a message with her for me to return your call or you may hang up after the third ring and call me back in a few minutes. You are encouraged to send questions by e-mail to either myself or the TA and we will respond as quickly as we can.
Make-Up Policy:

There will be three fifty minute examinations and a final two hour examination. The dates for the three hour exams are fixed as indicated on this sheet and the Course Syllabus. For logistical reasons and in the interest of fairness to all students enrolled in the course, we must adhere to a strict policy regarding make-up examinations. If you miss an examination for any reason without my having agreed in advance to excuse you from it, assumed that missing the exam was due to extreme extenuating circumstances, you will not be allowed to make it up. Instead, your final exam score will count for that portion of your grade. **On-Campus** students who are enrolled as full-time students will not be allowed to make up an exam for any reason.

Relative to the above policy, it is assumed that a missed exam is the result of extenuating circumstances. If you miss an exam and were not able to contact me prior to the exam, you should get in contact with me as soon as possible and let me know why you were not able to take the exam. It is not acceptable to simply not take an exam and assume that the final will count for that portion of your grade. If you simply do not show up for an exam and do not have any valid reason for such, you will be given a zero for that examination.

Grade Disputes:

If you dispute your grade on any exam or computer assignment, you have one week from the date that the graded paper was returned to you to request a regrade. Please attach a brief note of explanation to your paper when you return it. Please hand all regrade requests to me.

Lecture:

I would like to encourage active participation from the class as much as possible. Therefore, I encourage you to ask questions during the lecture. I will also be asking you some questions to stimulate your thinking at various points during the lecture.