INFORMATION SHEET

Fall 2008

Lectures:
Tuesdays and Thursdays: 9:30 am – 11:00 am
Wang room, Cory Hall

Lecturer:
Professor A. Zakhor
ayz@eecs.berkeley.edu
507 Cory Hall
ext. 3-6777

Prof. Office Hours: Thursdays, 11 am to 12 pm.

Teaching Assistant:
Andrew Ma andrew.ma.email@gmail.com
Jimmy Tang jimmytang@gmail.com

Office Hours:
Jimmy Tang: Mondays 10:30 am to 11:30 am
Andrew Ma: Wednesdays 5 to 6 pm
Office location to be determined.

Discussion Section:
Wednesdays 3 to 4 pm and 4 to 5 pm.

Course Administrative Assistant:
Rosita Alvarez
253 Cory Hall
ext. 3-4976
Rosita@eecs.berkeley.edu

Course Handouts:
Handouts not picked up during lectures can be picked up from the course web site,
http://www-inst.eecs.berkeley.edu/~ee123, and graded problem sets can be found in 253 Cory from
Rosita Alvarez.

Prerequisite: EE120, graduate standing, or consent of the instructor.

Text:

Outline of Topics:

1. Fast review of LTI systems, DTFT, sampling.
4. Quantization, finite word length effects
5. FIR and IIR filter design techniques;
6. Filter banks, Wavelets
7. Applications: speech and video processing.

Homework:

1. Problem sets will be issued approximately once a week. They will contain matlab problems. Problem sets are due in class, either on Tuesday or on Thursday, at the beginning of the class.
2. Problem Sets handed in late will not be accepted unless consent is obtained from the teaching staff prior to the due date.

Note: Pdf version of the lecture notes will be on line at the class web page by the end of the day on which the lecture was given.

Midterms: (Date is tentative)
In class, Oct. 14th, December 9th

Grade:
Homework: 20 percent
Midterm 1 : 40 percent
midterm 2: 40 percent