ECE 174 COMPUTER ASSIGNMENTS

General Instructions

Computer assignments must be completed by the indicated due dates. *Matlab code plus a report must be turned in for each separate assignment by the designated date.*

The computer assignment reports will be rigorously graded and this grade will make up 20% of the overall course grade.

Any number of students can work together to discuss the assignments, however each student must turn in code that has been *individually* written, compiled, and run, and an *individually* written report.

If two or more reports are obviously the same (or have significant overlap), a grade of *zero* will be assigned to *all* of these reports. If a report is determined to be recycled from a previous year (random copies of previous year reports have been photocopied and are on file), a grade of *zero* will be assigned to that report.

Report Format

Each assignment must be written up as a *very* brief (no more than 4-8 pages, excluding plots) "Internal Technical Memorandum". The reports should be written as if you are to give it to your (hypothetical) Group Supervisor/Manager of a (hypothetical) company that you work for.

Imagine that your Supervisor is a very busy (probably overworked) person who demands a brief, no nonsense, unambiguous technical synopsis which can be read quickly. Your Supervisor wants to know if precious time, money, and resources should be invested further pursuing the technology you are describing in your report. Thus your report must show your clear understanding of the assignment and its outcomes as your Supervisor is likely to grill you closely about any unclear aspects of your report in front of your colleagues in a technical group meeting.

Therefore, each report should be crisp and clear, and should: (1) State the problem and goals; (2) Describe the proposed technical procedure/solution; (3) Describe and interpret the results of the procedure/solution; and (4) Have a brief conclusion.

UCSD Engineering Portfolio

Your reports should be written clearly and neatly. *Show pride in your work and hard-earned accomplishments and technical prowess!* If you should so desire, you can assemble your reports into a mini-portfolio and present them at job interviews as representative of your accomplishments and knowledged gained at UCSD. If your reports look good enough you can even hand out copies to interviewers. In past student job interviews, companies have responded very positively to the computer projects, and several students have been hired specifically because of the knowledge they have demonstrated in the project reports.