

ECE 220 SIGNALS & SYSTEMS I  
**Laboratory Project Report Guidelines**

Fall 2006

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ECE 220 lab reports must include all analytical (*i.e.*, pencil/paper) work, Matlab plots and code, relevant explanations, and answers to any questions contained in the lab assignment. A list of specific guidelines for preparing lab reports are given below.

- Reports should contain at least the following sections:
  1. Introduction: This section contains an overview of the lab and a statement of what you expect to learn from it. (This section can be brief, *i.e.*, 2-3 sentences.)
  2. Results: This section is the main part of the report. It contains a discussion of your results for each section of the lab assignment. Your results should be more than just a collection of plots. You need to provide an interpretation of those plots and a description of any relationships or equations you have discovered. You should also answer any questions that were posed in the lab assignment.
  3. Conclusions: This section summarizes what you learned from the lab.
  4. Appendix: This section contains your Matlab code.

You may add additional sections as necessary.

- Reports must be typed, and all pages must be numbered.
- All plots must be neatly annotated with x-axis and y-axis labels and a title. Any graph not labeled will be considered not handed in.
- The grader will not spend time trying to determine which graphs are for which problems. You should number all the graphs (figures) in your report. Use these figure numbers when describing your results. For example, “Figure 1 is a plot of the signal  $x(t)$ .”
- Include your Matlab code as an appendix at the end of your project report. Please note that all Matlab code must be well-documented. You should use descriptive variable names and include comments in your code. There should be a comment at the top of each section of code that indicates what part of the lab that code goes with. For example, the following comments indicate the author of the code, the date it was written, and that it is for Section 2.1.

```
%%% ECE 220 Lab Project 1
%%% Author:  Ratbert
%%% Date:    9/15/06
```

```
%-----Section 2.1 -----
% 2.1b:  plot of exponential signal
```

```
%-----
```

- Your lab report should be your own work. It is an honor code violation to submit another’s work as your own or to allow your work to be submitted as another’s work. You may ask other students or the teaching staff for advice, but you may not copy their work directly. As stated in the guidelines given in the ECE 220 course information packet, you should identify any students you talk to about the project.