ECE 53A Lab Report Format

1. Each report must have a front page that includes the following information: Lab name and number, Student names, Lab section, Date and time of the lab.
2. The reports must be concise. Not more than 10 pages (attached plots, PSPICE output, etc. not included in this count). DO NOT rewrite the lab instructions, but summarize what you did especially describing any procedures not in the lab instructions. Use diagrams, tables and graphs as much as possible to eliminate unnecessary writing.
3. They must be self-contained documents; the reader (eg another student in the class) should be able to repeat what you did, based on your description.
4. The instructions ask explicit questions. The answers to these should be part of the Results and Discussion section. Long discussion about them should be avoided.
5. Each report should have separate sections with the following titles:

   **Introduction** Short, description of the purpose, can be a restatement of the purpose given in the instructions

   **Theory** Necessary theory and results from PSPICE Simulation, PRELAB calculations by hand. Attach copies of any pre-lab simulation plots to the report.

   **Experimental Procedures** Summarize the procedures include necessary circuit diagrams including component values measured with the impedance bridge.

   **Results and Discussion** Tables of data, comparisons with theoretical results, etc. Here give the discussion of each part of the lab, following presentation of the measurements from that part. (do not have separate sections for Results and for Discussion) This is where you should include a discussion of the measurement errors, and state/explain whether there are differences between measurement and theory that is more than, e.g., twice the rms error. Answer the questions in the instructions where applicable.

   **Conclusions** This should be a short summary of what was learned or produced. Describe if the measurements agree with the theory within the experimental errors? If not, is the problem due to mistakes made in the measurement or is does the model not correctly describe the circuit? If so how should the model be altered?

**Cheating Policy:**

Plagiarism in the form of copying reports or measurements, putting your name on a report you did not contribute to, are serious offenses. All such cases will be reported to the dean of the college; the guilty party will receive no credit for laboratory work, and will risk ejection from the class and university.