Requirements for Lab Reports

Below are the guidelines by which your ECE 182 lab report should be modeled. It is important to organize your report in such a way that the reader can easily view and understand your purpose and experimental technique.

1) For this class, all experimental data lab reports will be recorded in your lab notebook. The lab notebook must be bound and should contain at least 50 numbered pages with grid-lines preferably.

2) Set aside the first 3 pages of your notebook for the table of contents. Use this space to write the page numbers of the experiment performed.

3) Make sure to write the date that the experiment was performed on each page in the top right or left hand corner.

4) For each experiment all of the following are required:
   - Title of the experiment
   - Purpose of the experiment
   - Experimental Procedure
   - Data
   - Results
   - Summary and Conclusion

Explanation of Lab report components:

- **Title:** Copy the title of the experiment from the lab handout
- **Purpose:** This part can be one or two sentences in which you state your overall objective and hypothesize why you are performing this experiment.
- **Procedure:** In this section, it is important to write down every detail of how the experiment was performed in such a way that someone can repeat your experiment to verify the results.
- **Data:** This is the place where all the experimental measurements and observations are recorded while performing the experiment.
- **Results:** In this part, the experimental data is analyzed and examined by organizing the data into tables and graphs that clearly show the outcome of the experiment.
- **Summary and Conclusion:** The summary is one of the most important parts of the lab report. The summary is the area in which the results are reviewed to see if the purpose or objective of the experiment was satisfied. If the results are in contradiction to the hypothesis, it is important to note if there were any conditions or erroneous measurements that affected the outcome. Finally conclude by stating how the experiment may be performed better in the future.