Paper Layout

Your paper should include the following sections in the same order. The weight of each section along with a similar description is given in the Lab Guidelines page. The lab guidelines are how I will grade but the paper should have the following sections in the order they are listed below.

Each section should not be a list or set of lists but should use complete sentences and paragraphs.

**Title Page** – Title of your paper with your name underneath. You should come up with your own title that describes the lab not just the name of the lab.

**Abstract** – Written last but appearing first, this is a summary of your paper with a sentence about each section with a few more on the results and conclusions. This should be no longer than 7-8 sentences.

**Introduction** – Introduction to the concepts and object and why it is important. This section should not contain any details about the procedure or the analysis of this lab but should be more of a history of the object studied (look at the lab handout introduction for an example but be sure to write it in your own words).

**Procedure** – States what you needed to complete the lab and what observations you made during the lab. Justify why and how you used the tools. I should be able to reproduce the lab without any previous knowledge of the lab or the lab hand out.

**Analysis** – States what equations and other analytic tools were used and should also justify why those tools were chosen. Data should be included in this section. This section includes all results, including intermitted results between data and final results.

**Error Analysis** – State and discuss the sources of error in the data and how you can quantitatively take the errors into account. Include the result of error analysis tools and equations. Discuss errors that cannot be quantified and why they cannot be quantified.

**Discussion/Conclusion** – Compare the results to actual results that you can find in the literature. Show how the results relate to the important concepts from the introduction and how you could continue to study the concept.