ECE 220 Lab Report Rubric

Each lab is worth 25 points total

**Data: 15 points**

In order to receive credit for your data, you MUST turn in your data sheet with your lab report. It is REQUIRED that you print out the data sheet from the course website and bring it in to the lab to record your data. When you have finished a section of the lab, your work will be checked by the TA and you will receive an initial/signature from the TA. These signatures are what will earn you the 15 points. If you do not have the printed data sheet and only turn in a handwritten data sheet, even with signatures, you will lose credit.

**Report: 10 points**

Each lab will require that you do a write up that describes the information that you should learn from the lab. The lab report is not overly formal, but it does require some work. The lab reports should not just be a copy/paste of the lab procedure and descriptions of the experiments, they should be a qualitative analysis of the work that you have been doing. An important question that you should want to answer is: why? Why are we getting this data? Why is it the same as the pre-lab? Etc. (Formulas are essential to answering this question). Error is another important topic that must be considered in both a qualitative and a quantitative way. What types of error do we get? Why do we get this error? How much error is there from our expected values?

The weight of the expected material in the 10 points is different for every lab. Typically, error and the qualitative analysis for each section is weighted equally. This means that depending on the number of sections in a given lab, each part of your report will be worth a different number of points. A typical breakdown for a lab with three sections would look like:

- Error: 2.5 points
- Qualitative analysis section 1: 2.5 points
- Qualitative analysis section 2: 2.5 points
- Qualitative analysis section 3: 2.5 points

This will be a bit different depending on the lab that we are on, but you can expect a consistent grading scale for all of the labs. If you have any questions about the lab reports, you can speak with the TA during your lab section, or during office hours.