

## **PHYS328W: Guidelines for Log Books**

Your audience is your future self (and in this course, also me, since I am evaluating your log book). Your notes should be clear and detailed enough that when you read them later, as you're writing a paper on your work, you (and I) will be able to figure out what you did.

### **Experimental Work**

1. Use the available equipment effectively.
2. Collect enough data of good enough quality to extract credible results.
3. If things go wrong, make a reasonable effort to correct the problems.

### **Log Book Content**

#### **Experiment**

1. Entries include date and time and who was present.
2. Describe the configuration of the apparatus is described in enough detail that a reader could reproduce comparable raw data.
3. Record any dimensions, settings, and other configuration parameters that might be needed to make sense of the raw data.
4. Include clearly-labeled circuit diagrams.
5. Record raw data in the log book if at all practical.
6. Include the units of all physical quantities.

#### **Analysis**

1. Perform your entire analysis in the log book.
2. Describe your methods of analysis in enough detail that a reader could perform the same analysis of your raw data and obtain the same results.
3. Include images of derivations of important equations.