

## Grading Rubric for PS 315 – 2 Week Labs

All labs are out of 40 points. Labs must be well organized and detailed for full points in each section. Point deductions will be followed by some explanation, but please...

### **Ask if you have questions! Your success is our goal!**

- 15 pts: The student was present during all lab times associated with the experiment and actively participated in the experiment. All required sections of the log book must be complete (Introduction, Procedure, Questions, etc.). Standard laboratory notebook etiquette followed.
  - Figures, schematics, tables, and graphs are large and legible each having a brief description next to it.
  - Procedure is *detailed* and would allow a fellow student to reproduce the experiment exactly as it was executed
  - Data are recorded in real-time and with proper units and uncertainties clearly shown.
  - Uncertainties and systematic errors are discussed to determine where errors may have affected the final results. Uncertainties are **JUSTIFIED**.
  - A complete conclusion with results and corresponding errors is presented, how to improve experiment for greater precision/accuracy.
- 25 pts: Results are as accurate and precise as possible given the equipment and time constraints. The accepted results for the particular experiment will be used as a reference for determining the amount of points awarded. The following items will also be among those considered when evaluating your results.
  - Your results are relevant to the goals of the lab and reflect a good understanding of the physical principles involved.
  - Your log book reflects a good understanding of the physical principles involved.
  - You are careful in obtaining the data and the data you obtain are accurate and precise.
  - Your data is correctly analyzed and is used in conjunction with calculations, graphs and careful arguments to justify your results.