

## 5.7: Lab Manual

---

University Physics I

Download the [Word Document Laboratory Manual file](#) here

Instructions for Presenting Laboratory Results

All numerical values either directly measured or based on measurements must be reported with an appropriate uncertainty and unit. For example:

Carefully note that:

- The uncertainty has no more than 2 significant digits
- The decimal place of the uncertainty is consistent with the decimal place of the value
- The uncertainty and value are raised to the same power-of-ten, preferably a multiple of 3

In order to determine the uncertainties associated with best-fit parameters, most graphs will need to be constructed using LoggerPro. Use the file “Graphing” in the PHY 262 M-drive folder to construct graphs.

Carefully note that:

- Axes are labeled by variable name and unit
- Data points are not connected and may display appropriate error bars
- The best fit parameters are clearly displayed with uncertainties

**Laboratory reports that do not comply with these instructions may not be accepted.**

CC licensed content, Original

- University Physics I Laboratory Manual. **Authored by:** Paul D'Alessandris. **License:** [CC BY-NC-SA: Attribution-NonCommercial-ShareAlike](#)

---

This page titled [5.7: Lab Manual](#) is shared under a [CC BY-NC-SA 4.0](#) license and was authored, remixed, and/or curated by [Lumen Learning](#).