

Lab Notebooks

The following should be in your lab notebook(s):

1. Front of notebook
 - name
 - course section
2. Inside front cover
 - table of contents
3. For each experiment
 - title
 - record of experiment
 - diagram of equipment and how it was used
 - notes on experiments tried
 - raw data
 - list quantities used throughout expt. and estimates of error if any
 - data taken during expt. including estimates of error
 - comments about experimental conditions/ discoveries
 - names of data files where data is stored
 - data analysis
 - plots of data (you may glue or tape into notebook; no loose paper!)
 - all plots/printouts/etc. should have a careful description
 - formulae used to extract measured quantities
 - uncertainty analysis
 - sources of error
 - methods of error assignment
 - uncertainty propagation
 - systematic vs. statistical
 - discussion of results
 - final results with uncertainty
 - identification of predominant source of uncertainty
 - discussion of ways to improve measurement
 - discussion of other possible measurements