Week 7: Experimental design, and collecting and managing data (II) – Analysis and presentation:
A discussion of how to recognize statistically significant trends in data and the importance of error analysis. A discussion of case studies will demonstrate the importance of critical reasoning in data analysis. A presentation and discussion will explore effective methods for visually presenting data.

Reading/Homework Assignment

Read Experimental Techniques and the Treatment of Data, page 4, in the booklet On Being A Scientist Responsible Conduct in Research

Also Read:

Method and Scenarios (from The Responsible Collection, Retention, Sharing, and Interpretation of Data http://www.onlineethics.org/reseth/mod/data.html

  o Struggle over Data
  o Data Reduction Techniques
  o Confidentiality and Data Access
  o Data in a Press Release
  o Data Sharing and Intellectual Property
  o A lie or Just "a Way of Speaking"?
  o Data and Collaboration

(Also turn in the writing assignment for week 8 – which was assigned last week)