Chemistry 161L
General Chemistry Laboratory
Spring 2008

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Required text: General Chemistry I – Chemistry in the Lab
Harwell/Larsen
Postma/Roberts/Hollenberg

WEEK OF LABORATORY

1/14  1. First-Day Instructions / Check-in
1/21  3. Separation of Food Dyes by Paper Chromatography
1/28  4. Observing the Reactions of Household Chemicals
2/4   2. Scientific Measurements
2/11  5. Determination of a Chemical Formula: The Reaction of
       Iodine with Zinc
2/18* 6. Concentrations and Spectroscopic Analysis of CuSO₄ Solutions
2/25* (ONLY MONDAY LABS [SECT. 1, 2, 3])
3/3   11. Synthesis of a Chemical Compound: Making Alum from
       Aluminum
3/10  8. The Heat Capacities of Metals
4/7   13. Models of Molecular Shapes
4/14  7. Charles’ Law
4/21  12. Reactivity of Metals with Hydrochloric Acid and Check-out

*2/25 (Monday labs) [Make-up lab missed on 2/18/08 due to holiday. Expt 6,
Concentrations and Spectroscopic Analysis of CuSO₄ Solutions]
Course Policies

Chemistry 161L is a general chemistry laboratory course. You will be expected to attend all meetings of the course and to complete all assignments on time. There will be no make up laboratories. You can only be excused from a laboratory period if you are ill and have a certificate that you were under a physician’s care. An unexcused absence counts as "ZERO" for that lab period.

During each lab period you will carry out an experiment. Before coming to lab you are expected to have read the description of the experiment and to be familiar with the general topic which will be investigated. A short written quiz will be given to you at the beginning of each lab period. The quiz will contain questions about the experiment which was performed the previous lab period and the one to be performed during the current lab.

Conduct of Lab:

1) **First 10 min:** Turn in completed *lab report* (from previous experiment) and take a short quiz.

2) **Second 15-20 min:** Prelab lecture presented by your teaching assistant to discuss specific points for that day's experiment.

3) **Remaining time:** Do the experiment and record data.

4) **Last 10 min:** Clean-up

**Lab Reports:** Completed lab reports covering the *previous* experiment must be turned in at the beginning of the following lab period. Teaching assistants will grade the reports and return them to students the next lab period.

**Final Grade:** Your lab grade will be based on the following distributions: 60% laboratory reports, 30% quizzes and 10% TA evaluation.

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