

Chemistry 228

General Chemistry Laboratory

SYLLABUS - Summer 2007

Text: Bauer, Birks, Sawyer, Laboratory Inquiry in Chemistry, 2nd edition, Brooks--Cole, and **Lab Packet** (available from Clean Copy, On Broadway).

Prelab Exercises: Prelabs are included in the lab packet. You should answer these questions before coming to lab. Pre-labs are due at the **beginning** of the lab period. You must prepare prior to coming to lab.

Materials: You will need chemical splash safety goggles. These are available from the stockroom (a \$6.50 package) or the bookstore. You will need a notebook (not loose paper) for recording data. *You are responsible for all laboratory equipment checked out to you.* You are responsible for all the equipment in your lab drawer. If you break any equipment you will need to replace it. Upon return of broken parts you will pay the cost of the equipment up to \$5.00. Your laboratory fee pays the cost of equipment broken, after that \$5.00 deductible.

Grading: The laboratory is graded on a Pass/No Pass basis. An average of 75% is required to pass. Credit will be given for all parts of project work. Grade will be based in part on individual work and in part on group work. Pre-labs will be worth 10% of the total grade.

Laboratory reports are due at the beginning of the lab period following completion of the experiment. Lab reports should be typed. Late reports will be docked 15 points per day late. **Failure to complete the CPR assignment will result in a NP grade. Contact Dr. Cooper to discuss makeup work.**

Attendance: **Attendance in this lab is mandatory.** There are no make-up labs. If you have to miss a lab for some valid reason you should inform your TA. **If you have more than one absence your grade will be a NO PASS.** *An incomplete grade is not possible in laboratory courses where registration is required to reserve a space to work.*

NOTE: If you are more than 15 minutes late to lab you will be marked late. Two late arrivals during the term will be counted as a missed lab. If you are chronically late you will be given a NO PASS.

CPR dates:

Text entry begins: July 13th

Text entry ends/reviews begin: July 20th

Reviews/assignment ends: July 27th

Note: The summer schedule is somewhat fluid through Ch 227, 228 and 229. Lab instructors may adjust the schedule forward , please note any changes announced

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Labs labeled "Exp #" are in the lab packet. Lab labeled "Investigation #" are in the lab manual.

It is possible experiments will be moved up by one day. This reflects the extra day not needed to check in.

Lab 1: July 12

Check In

Announcements and registration adjustments.

Lab 2: July 16 (*cpr alert*)

Hess's Law - Mg Experiment - (Packet)

Lab 3: July 17 **Hess's Law Questions Due**

Investigation 10: Are All Neutralizations the Same?

Lab 4: July 19 **Report 1 Due**

Exp. 5,6,7: Gas Laws - Graphical Analysis of Data

Lab 5: July 23 **Gas Law Questions/Report Due** (*cpr alert*)

Exp. 10: Vapor Pressure of Liquids

Lab 6: July 24 **Vapor Pressure Questions/Report Due**

Investigation 14: Who Wrote the Ransom Note?

Lab 7: Aug 1 **Report 2 Due**

Estimation of Molecular Weight by Freezing Point Depression - (Packet)

Lab 8: July 26 **Freezing Point Calc/Questions due** (*cpr alert*)

Investigation 27: Which Alcohol in the Barrels?

Lab 9: July 30 **Report 3 Due**

Investigation 29: What is the Rate Law?

(Check out if necessary)

July 31st Report 4 Due

Labs experiments will be done in pairs. **Lab reports MUST be written individually.** Information about the specific requirements for each lab report is in the lab packet.

Late Work: Reports are due at the **beginning** of the indicated laboratory period. Reports will be docked 15 points for each calendar day they are late.