CHEM122L  GENERAL CHEMISTRY LAB

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Sections 01/02: Mon  1:10-4 pm  Sections 03/04: Tues  8-10:50 am
Sections 05/06: Tues  1:10-4 pm  Section 07/08: Wed 1:10-4

LEARNING OUTCOMES:
Students will be able to acquire, handle and present experimental data.
Students will be able to relate experimental results to chemical principles.
Students will be able to write a clear summary of an experiment in a lab notebook.

MATERIALS:

  **STUDENT LAB NOTEBOOK** (100 CARBONLESS DUPL SETS)
  HAYDEN  ISBN:9781930882744

  You may use the notebook purchased for Chem 121

  **CHEM 122 LAB MANUAL** must be purchased at Lafayette College Store
  Safety Goggles that seal around the eyes for splash protection
  Calculator

Laboratory Safety standards can be found the lab web site [http://sites.lafayette.edu/salterg/](http://sites.lafayette.edu/salterg/)
A signed pledge to abide by laboratory safety standards will be kept on file.

ATTENDANCE:  Mandatory. You must contact the professor by voice mail or e-mail before
(sports, etc) or within 24 hrs after (sickness, etc.) a lab which is missed for ANY reason. A
Dean’s excuse or Health Center notice is useful, but it is still your responsibility to arrange for a
makeup. Failure to do so will result in points deducted from your final grade. If contact is not
made within a week, you will receive a zero for the lab. If you drop the course, be sure to turn in
your lab key to the stockroom or the professor in charge of the lab.

ACADEMIC INTEGRITY:  “Students are expected to be honorable, ethical, and mature in
every regard.” Academic integrity is of paramount importance to everyone associated with
Lafayette College. Academic dishonesty devalues the degrees earned at Lafayette and other
schools, including your own, and those of your instructors. No form of scholastic misconduct
will be tolerated. Academic dishonesty includes cheating, fabrication, falsification, plagiarism,
complicity, and copying homework. In summary, all graded work (in or out of class assignments
and exams) should be the result of your own effort. Violations will be handled in accordance
with the Procedural Standards in Disciplinary Proceedings stated in the *Student Handbook* and
can result in failure from the course (with reasons appearing on transcripts) or even expulsion.
FORMAT:

**Report Experiments** (shown in bold-face on Laboratory Schedule in your manual)
1. Each pair will collect data. Each student will do calculations and answer questions on the Report.
2. **Quizzes** will be given with questions related to the current subject under investigation.

**Notebook Experiments**
You will be working individually or in pairs. For these experiments, a lab notebook with double sheets is required. You will turn in duplicate sheets to be graded.

1. **Procedure** on duplicate sheets
   Each student should record an account of their work, observations and data in their notebook. It will be important to write down everything that you do, as you do it, in such detail that someone will be able to reproduce your experiment, without using the lab manual as a guide.

2. **Calculations** on duplicate sheets
   Each student should show requested calculations, final results and answer discussion questions. Remember to use correct significant figures and units. Extra time may be given for turning in this section. None will be accepted after one week from the date of the experiment.

3. **Accuracy and Precision** from notebook data
   Data from your notebook will be collected and used to determine if your data is reproducible and matches the accepted value.

**GRADING:**

Laboratory grade consists of -
- **20% Reports**
- **30% Quizzes**
- **30% Procedure and Calculations**
- **20% Accuracy and Precision**

Possible adjustment: Points can be subtracted from final grade for
- late to lab or does not contact TA professor when missing lab
- poor participation
- directions not followed
- not prepared for labs
- dressed incorrectly
- does not follow SAFETY PROCEDURES
-- does not checkout

Grades are posted on MOODLE.
Please check your grades periodically and contact me with any discrepancies.
NOTE: Check grades posted by the end of Spring Break. Let me know if you have questions during the first lab after break. These grades will NOT be changed after that time.