2015

CHEM 163-08 General Chemistry Lab II

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Overview of course: This is a laboratory course, which will serve to exemplify concepts that are covered in the lecture class. The student will learn to recognize and manipulate basic laboratory equipment, observe, record and interpret data, and prepare written laboratory reports that are clear, concise, and accurate.

**Class Policies**

**Attendance:** Attendance is mandatory for all class meetings. Only documented illness and family / personal emergencies will be considered excused absences. 5 points will be deducted at the end of the term for each unexcused absence. In general, missed labs cannot be made up, but, in rare circumstances, a lab may be made up at the instructor’s discretion within 7 days. Alternately, you may take the lab with another instructor with their permission. However, if you cannot take the lab with another instructor, you may hand in the pre-lab and ASA within the next week, and you will receive 25 points for the lab. Otherwise, a zero will be assessed.

**Due Dates:** Lab reports are due one week after the lab is performed. Late Labs are accepted up to one week late, and with a 5-point penalty for each day the lab report is late. After 7 days, you will receive NO credit for lab reports.

**Pre-Labs:** Before coming to class, please prepare a pre-lab. The pre-lab consists of a short summary of the objectives of the lab, a summary of the procedure (NOT a rewrite of the steps), and what you expect to learn from the lab (personal learning goal). The pre-lab is due at the beginning of the class. The pre-lab will serve as the cover page to your formal lab report. Please complete the Advanced Study assignment (ASA) as well before you arrive at lab. This is found in your lab manual. Failure to complete these pre-lab requirements will result in a deduction of up to 20 points from your total possible score (usually 50 points).

**Lab reports:** The lab reports must include the pre-lab, all observations, measurements, calculations, conclusions, and answers to any post-lab questions. Any data tables required by the text are also required. A word about erroneous entries: If you make an error, simply place a single line through the erroneous entry, and write the correct entry next to it. Example:

The thermometer read 35 degrees F 40 degrees C. Initial and date the corrected entry.

The post-lab section of the report must contain the following components:

- A summary of your results; if numerical, provide your answer. If qualitative, identify the unknown.
- Justification of your results- how do you KNOW your results are correct? Use your data and observations to justify your results.
- Errors that could or did occur: Discuss THREE possible sources of error and the effect(s) they may have had on your results. Discuss direction of bias for quantitative results.
- Finally, a statement regarding if and how you met your personal learning goal is required.

Lab reports are due ONE WEEK after the lab is completed.

**Attire and Lab Safety:** Laboratory safety is very important. Safety glasses/goggles, long pants and fully covered feet (shoes or sneaks only) are required. Please tie back long hair. No food, drink, or gum is permitted in lab. Lab aprons are available, as are gloves. You will not receive credit for any lab in which a safety infraction is committed.

**Please note:** the schedule and procedures in this syllabus are tentative and are subject to change if conditions warrant. Reasonable notice will be provided.