2013

CHEM 105-03 Chemistry: Life and Health Lab

Roy Cohen
cohen@xavier.edu

Follow this and additional works at: http://www.exhibit.xavier.edu/chemistry_syllabi_spring_2013

Recommended Citation
http://www.exhibit.xavier.edu/chemistry_syllabi_spring_2013/7

This Restricted-Access Syllabus is brought to you for free and open access by the Chemistry Syllabi 2013 at Exhibit. It has been accepted for inclusion in Chemistry Syllabi Spring 2013 by an authorized administrator of Exhibit. For more information, please contact exhibit@xavier.edu.
Overview of Course: This laboratory course has several objectives: 1) to introduce the student to good laboratory techniques and safe work in lab (2) to enable a student to see the application of theoretical concepts (3) To help the student learn to observe physical and chemical phenomena, record data, perform calculations, and make sound conclusions based on the lab (4) to help students synthesize written lab reports based on observations and data.

Each Lab report is worth 50 points, and lab exams are worth 75 points.

Grading Scale: A = 93-100%  A- = 90 - 92%  B+ = 87-89%  B = 83-86%  B- = 80-82%  
C+ = 77-79%  C = 73 -76%  C- = 70-72%  D+ = 67-69 %  D = 63-66%  D- = 60-62%
F = <60%

It should be noted that according to the Xavier University Catalog, a grade of “A” is earned for EXCEPTIONAL performance. This is the grading policy of the faculty of the Chemistry Department as well. Refer to the Chemistry Department web site for more information: www.xavier.edu/chemistry/dept_policies_grading.cfm

Class Policies

Academic Misconduct Policy: A grade of zero will be given to any student violating the University Academic Honesty Policy. The student may appeal according to normal university procedures as stated in the University Catalog.

Special Accommodations: It is the responsibility of the student to inform the instructor of any individual medical or other conditions that may require special attention or accommodations at the
beginning of the semester. Reasonable consideration will be given for these conditions. Please visit the LAC for assistance and further information.

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 brief written laboratory reports that are clear, concise, and accurate.

Student Learning Outcomes
1. Students will become proficient at recording data and observations.
2. Students will develop critical thinking skills through the answering of pre- and post-lab questions.
3. Students will develop good laboratory report writing skills.
4. Students will be able to draw parallels between classroom concepts and laboratory investigations.

Due Dates: Lab reports are due one week after the lab is performed. Late Labs are accepted only one week late, and with a 20-point penalty.

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. The pre-lab includes completion of the pre-lab questions found in your lab manual (or on the class web site) for most experiments.

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. Finally, a statement about if and how you met your learning goal is required. A word about correcting errors: If you make an error, place a single line through the error- do not obliterate the entry. As an example: The thermometer read 35 degrees F  40 degrees C. Initial and date the correction as well.

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.

Absences: As a rule, missed labs cannot be made up, unless you know several days in advance that you will be absent. In that case, you may join one of the other two lab sections that meet during the day. In the case of an emergency or other documented absence, you may make up one lab at the discretion of the instructor if time permits. Even if you miss a lab, if you hand in the pre-lab the next week, you will receive 30 points for the lab. Otherwise, a zero will be assessed.