

CHE 120-13L
GENERAL CHEMISTRY LABORATORY I
Spring 2004 W 2-5 p.m. ROOM 422

Instructor: Ms. Gini Vance

Office : 441

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Office hours: M 11:30-12:30 Other hours are available by appointment

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Corequisite:

General Chemistry I Lecture

Required Materials:

GENERAL CHEMISTRY I LABORATORY MANUAL, Padolik, L; Hicks, W.V;
Niewahner, J.H.

Equipment: Safety Goggles (OSHA approved ansi Z.87)

Other Required Materials

1) Lab record book, Hayden McNeil Publishing 2) Safety goggles 3) 3.25" disk or Zip 100™ disk

Calculators: Calculators will be necessary for tests and quizzes. Programmable and graphics calculators are not permitted during tests. Calculators may not be passed from one student to another during a test.

EMAIL: Students are required to email me a working email address within 7 class days.

Course Requirements:

1. Students are required to attend all scheduled labs. If a student misses a lab experiment with a good excuse (something beyond the student's control), a makeup lab may be scheduled by contacting the instructor within 2 days of the missed lab. The lab must be made up within one week of the missed lab. The student must obtain permission from the makeup lab instructor. Two make ups will be permitted. Failure to follow this policy will result in a grade of zero for the missed lab.
2. Safety glasses will be worn, correctly, at all times in the lab. You will not wear sandals or shorts to lab. Food and drink are not allowed in the lab. These and other safety procedures (including proper disposal of waste), along with upkeep of the lab area will comprise a substantial portion of your grade. Failure to follow procedures will result in my requesting you leave the lab and a zero for that lab. Students who repeatedly fail to follow policy will be withdrawn from lab.
3. Students are expected to come to class with a thorough understanding of the principles involved in the experiment, the goals of the experiment and the procedures to be followed. This requires you to read the experiment ahead of time and complete the lab record book.

4. The lab record book will be used to write the protocol for each experiment and to record changes to procedure and data collected in each experiment. The protocol must be complete before you are allowed to carry out the experiment. Each record book entry should contain the title, date and purpose of the experiment (in complete sentences) along with procedure and data. Copies of the protocol and data are to be handed in after the lab is completed. Students will be expected to follow the protocol in their record book without referring to the lab manual. All data and calculations must be recorded to the proper number of significant figures.
5. Unannounced quizzes will be given periodically. If you are late, no extra time will be given.
6. For most experiments the lab report consists of data sheets and post-lab questions at the end of the experiment. Pre-lab questions will be turned in for all experiments that have them. In addition to the usual report there will be formal introductions for Chromatography and Copper Cycle. Formal discussions will be typed for Zinc Iodide and Alum in addition to the usual lab report. Each report is due at the **beginning** of the lab following completion of the experiment. Reports handed in after this time are considered late and will be penalized 10% for each day the report is late. Lab reports later than five days late will not be accepted. Due dates are subject to change. Incomplete write-ups (missing pages, graphs, etc.) or write-ups greater than one week late will not be graded.
7. All written work must be legible and grammatically correct. A zero will be given to anything I can not read.
8. You may work together to complete the lab assignments. However, you are expected to turn in your own not an identical copy of someone else's work.
9. There are two tests given on. There will be a written portion and a practical portion. The practical portion will be worth 20 to 35 % of the overall test grade. There will be **no** make-up tests given.
10. All students are expected to follow the Student Honor Code.

Important Dates:

- Feb. 1 Last day to drop a course without a grade appearing on transcript
Mar 3-18 Submission of mid-term grades by faculty
Mar. 10 Spring Break – no Lab
Mar 26 Last day to drop a course with a W (Mar. 27 using Norse Express)

Grading:

Experiments, Quizzes, Pre-labs	70% of overall score
Tests	30% of overall score

Overall score	Letter Grade
100-90.0	A
89.99-80.0	B
79.99 – 70.0	C
69.99 – 60.0	D
59.99 –0	F

Tentative Schedule

Date	Experiment
Jan. 14	Check-in, Safety, Diagnostic Test
Jan. 21	Laboratory Measurements
Jan. 28	Nomenclature
Feb. 4	An Introduction to Chromatography (FI)
Feb. 11	Empirical Formula of Zinc Iodide (FD)
Feb. 18	Chemical Reactions
Feb. 25	Titration
Mar. 3	Test 1 (Experiments thru Titrations)
Mar. 10	No Class
Mar. 17	Ideality of Hydrogen
Mar. 24	Calorimetry and Hess's Law
Mar. 31	Cycle of Copper Reactions (FI)
Apr. 7	Absorption Spectroscopy
Apr. 14	Synthesis of Alum (FD)
Apr. 21	VSEPR
Apr. 28	Test 2 (Experiments from Oct. 28 thru Dec. 2)

Other:

If you withdraw from the lecture, you **must** withdraw from the lab.

Students are required to read and understand the contents of this syllabus. Any questions must be brought to the instructor's attention by Jan.21. Instructor reserves the right to modify the syllabus at any time during the semester.