

CHE 120-13L
GENERAL CHEMISTRY LABORATORY I
Spring 2005 W 2-5 p.m. ROOM 422

Instructor: Ms. Gini Vance

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Office hours: W 11:30-12 R 12:30-1 Rm. 422 W 5-5:30 Rm. 423 7:30-8 Other hours are available by appointment

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Corequisite:

General Chemistry I Lecture

Required Materials:

GENERAL CHEMISTRY I LABORATORY MANUAL, Hicks, W.V; Padolik, L; Niewahner, J.H., 2003.

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.

Internet: The NKU Blackboard website is used on this course

(<http://learnonline.nku.edu>) for course announcements, grades, etc. You are responsible for all posted material. Try to take advantage of all the posted material (especially the discussion board). Please post questions to me on the discussion board if possible instead of emailing me. You may want to utilize the NKU General Chemistry website (http://www.nku.edu/~chemistry/general_chem/), where you can find a comprehensive schedule, handouts, etc.

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. Disruptive students will be asked to leave the 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 Students who repeatedly fail to follow policy will be withdrawn from lab.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 Chemical Reactions. Formal discussions will be typed for Cycle of Copper Reactions and Titration 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. Make sure you are familiar with this policy by checking the following website:
<http://www.nku.edu/~deanstudents/HonorCode.htm>

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. 12	Check-in, Safety, Diagnostic Test
Jan. 19	Laboratory Measurements
Jan. 26	An Introduction to Chromatography (FI)
Feb. 2	Nomenclature
Feb. 9	Empirical Formula of Zinc Iodide
Feb. 16	Alum
Feb. 23	Chemical Reactions (FI)
Mar. 2	Test 1 (thru Chem Rxns.)
Mar. 9	Spring Break - No Class
Mar. 16	Cycle of Copper Reactions (FD)
Mar. 23	Titration (FD)
Mar. 30	Calorimetry and Hess's Law
Apr. 6	Absorption Spectroscopy
Apr. 13	Titration of Bleach
Apr. 20	VSEPR
Apr. 27	Test 2 (Copper to VSEPR)

Other:

1. If you withdraw from the lecture, you **must** withdraw from the lab.
2. Students are required to read and understand the contents of this syllabus. Any questions must be brought to the instructor's attention by Jan 26. Instructor reserves the right to modify the syllabus at any time during the semester.
3. All pagers and cell phones must be turned off during lab or you will be asked to leave.