

Introductory to Chemistry Laboratory
Chemistry 103

Senior Instructor: Dr. Mona F. Zady
Room 317 Chem. Bldg.
852-7229
mona.zady@louisville.edu
Office Hours: by appointment

Course Materials: **Chemistry for the Curious, 3rd edition**
Available from the University Bookstore or other local book outlets
Eye protection (either splash goggles or safety glasses)
Available from the Graduate Student Assn., the Bookstore or other outlets
A scientific calculator

Course Outline: This is an introduction to the laboratory techniques used by chemists. It may also enrich your learning of Chem. 101.

Course Prerequisite: The prerequisite for Chem. 103 is concurrent registration in, or completion of Chem. 101.

Your Teaching Assistant: The laboratory will be taught by qualified Graduate Teaching Assistants (GTAs) or undergraduates (UTAs) as selected by the Department of Chemistry. These persons are responsible for the instruction, supervision and grading of the laboratory course. If problems arise you may contact the Senior Instructor. The grading of the laboratory is based upon the successful completion of the prelab assignment, experiments, written lab reports and the evaluation by the TA of the students' performance and skills exercised throughout the semester.

Since this is a laboratory course, **attendance is required**. One experiment will be dropped. This would seem to allow one absence but, this presupposes that all the experiments will receive an equal grade. This also implies that there will be **NO** make-up labs. **The first experiment that is missed will be the dropped experiment.** Except for very compelling reasons, absences will not be excused. Any excused absence must be approved by the **Senior Instructor** and **NOT** the TA and must be accompanied by a valid reason, e.g. doctor's statement, etc. **Only one excused absence will be allowed.**

At the initial check-in the student will be assigned a locking drawer. The student will check each item on the check-in list and will replace any missing or broken items, free of charge, from the stockroom (B-38). After the initial check-in the student is responsible for replacing any missing or broken item assigned directly to the student. Failure to replace items missing or broken item(s) **will** result in an incomplete for the course.

SAFETY IS OF PRIMARY CONCERN TO US! The safety rules will be discussed at the first meeting and will be brought up again at the beginning of each experiment. As an example, eye protection is required at all times in the laboratory. Failure to abide by this rule will result in one of the following:

**THE POSSIBILITY OF TOTAL BLINDNESS
AND/OR
THE LOSS OF ANY AND ALL CREDIT FOR THE EXPERIMENT**

PRELAB ASSIGNMENT: In addition to reading the pertinent material, A pre-lab write-up including the title, purpose, equipment needed, chemicals to be used and safety concern with each chemical must be completed before entering the lab. The pre-lab assignment is worth 30 points. **Please note that experiments are not conducted in numerical order.**

LAB REPORTS: The lab report for the previous the experiment is due at the next scheduled lab session. Lab reports are worth 50 points.

FAILURE TO TURN IN THE PREVIOUS LAB REPORT AT THE SCHEDULED TIME WILL RESULT IN THE LOSS OF 5 POINTS PER DAY THAT THE REPORT IS LATE.

Note I: The lab report can be turned in directly to the TA or it can be placed in the report mail-box located in room 138 of the Chem. Building.

Note II: The TA must return the lab report promptly!!!! Please report failure to do so to the Senior instructor.

Be advised that cell phones, beepers, devices that require ear phones, etc. can not be used in the laboratory. Please turn them off!!! Also, the dress code for laboratory is as follows: shorts must be below the knee, open toe shoes are forbidden and the upper torso must be covered.

GRADING (Chem. 103):

90% ----- 100%	A
80% ----- 89%	B
70% ----- 79%	C
60% -----69%	D
less than 60%	F

A curve on the grades may be necessary, but under no circumstance will the grades go higher than noted above.

NOTICE!!! Incompletes(I) will be assigned only for the reasons given in the Student Handbook. Failure to check-out and replacement of broken/missing equipment will earn an incomplete since this is part of the course. It is also important to save all graded results in case disputes arise involving the final grade. The last day to withdraw is February 25.

Chem. 103
Tentative Laboratory Schedule
SPRING 2008

Lab Week Beginning

ACTIVITY

Tues. Jan. 15

Check-in, Orientation and Safety

Tues. Jan. 22

Experiment 1: Matter and Its Chemical and Physical Properties

Tues. Jan. 29

Experiment 2: Thinking Metric

Tues. Feb. 5

Experiment 3: Paper Chromatography

Tues. Feb. 12

Experiment 6: Chemical Reactions in the Environment

Tues. Feb. 19

Experiment 8: Chemical Analysis of Cations and Anions

Tues. Feb. 26

Experiment 9: Solutions and Solubility

Tues. March 4

Experiment 15: Beauty from a Piece of Trash

SPRING BREAK

March 9 – March 15

Tues. March 18

Experiment 14: Determination of the Best Remedy for Indigestion

Tues. March 25

Experiment 12: Acids and Bases in the Home and Environment

Tues. April 1

Experiment 10: Hardness of Water

Tues. April 8

**Experiment 5: The Firefly Reaction
CHECK OUT**