Goals and Objectives: The laboratory portion of the course is intended to reinforce the concepts discussed in lecture through hands-on performance of experiments, in which students will collect and interpret data, and communicate their results in lab reports. By the end of the semester, students will better understand the scientific method, and will also have gained practical experience in general laboratory techniques.


Safety Rules: The lab instructor will discuss safety rules & equipment.
1. Eye protection must be worn at all times in the lab. Safety glasses are required; regular glasses are not sufficient.
2. Students are required to wear lab coats while working in the lab.
3. Sandals or open shoes are not permitted. Long pants and firm shoes/tennis shoes are required.
4. No smoking, no eating, no drinking at any time in the laboratory.
5. Only authorized experiments may be performed.
6. Any accidents are to be reported immediately to the instructor.
7. Work areas are to be cleaned and student drawers are to be locked at the end of the period.
8. Waste disposal rules: Waste chemicals are collected in special containers on the supply desk.
   - No solid material should be put in the sinks. The crocks are for broken glassware only.
   - Matches should be extinguished with water before discarding them in the waste baskets.
   - All paper should be discarded in the waste baskets.

Grading: Twelve lab assignments will be graded with a maximum of 100 points per report. Each student’s total lab score (maximum 1200) will be divided by 10 to obtain the number of lab points (maximum 120) that count toward the grade for the entire course. The average grade for a lab report (not including zeroes) is expected to be about 83%. This amounts to approximately 1000 out of 1200 possible points for students who perform all experiments. Class averages may be normalized to 83% if they are above 86% or below 80%. Zeroes will not be included in arriving at these class averages.

Absences: Failure to do an experiment or turn in a lab report by the deadline will result in zero points for that particular experiment. If you miss a lab and have a University approved excuse (in the eyes of your instructor), make-up assignments may be possible. It is important that you contact your lab instructor immediately if you miss a lab.

Lab Reports are due at the end of the lab period. They should include all data, calculations, and final results and/or conclusions. Generally, you will submit your lab report on the Data Report Sheet from your lab manual. In addition, you will have to show your calculations. You will have to turn in your own lab report even if an experiment is done in pairs.

Note: The potential of risk is present in some lecture demonstrations and lab experiments. Accidents are rare, but have happened. Faculty & staff exercise great care to minimize and, when possible, eliminate all potential hazards. Additionally, minimization of risks requires that students come well prepared for each assigned exercise and are attentive in class.

The Materials Fees collected for this laboratory course are used to partially defray the cost of replacing expendable materials and obsolete equipment, repairing equipment, and obtaining new equipment appropriate for student use in state-of-the-art instruction in the laboratory science of chemistry.