

CHEM V01BL: General Chemistry II Lab

Fall 2015

Instructor: Malia Rose

E-mail/iMessage: mrose1@vcccd.edu; **Website:** <http://www.mrosechemistry.weebly.com>

Office: SCI-330, **Phone:** (805) 289.6242

Class Meetings: TR 9:30AM-12:20PM in SCI-218

Office Hours: MW 11:30am-1:30pm, TR 8am-9am, T 2-3pm or by appointment

Please feel free to stop by my office at any time as I am more than happy to help whenever I can. Let me know if you wish to set up an appointment for additional help. I am also very available via e-mail and text, even during off hours, so please contact me whenever you have questions or concerns!

Required Textbooks: Carbonless copy lab notebook

Lab Manual for Chemistry 1BL (purchase at the bookstore or www.chemistrylabmanual.com)

Scientific calculator (by the second class meeting)

Closed-toed shoes & goggles to be worn every meeting

Prerequisites: CHEM V01A & CHEM V01AL (General Chemistry I), CHEMV01B or concurrent enrollment

Who should take this course? This course is designed to supplement CHEM 1B by providing hands-on application of concepts learned in lecture. It is meant to teach students common chemistry laboratory techniques and data analysis skills.

By the end of this course, you should be able to...

- 1.) Understand laboratory procedures, safety, scientific method and lab notebook recording.
- 2.) Evaluate a chemical reaction system to determine how chemical equilibria will be altered by changes in temperature, concentration, or pressure by applying Le Chatelier's Principle.
- 3.) Experiment with rate dependence on temperature and calculate activation energy from experimental data analysis.
- 4.) Test common hydrocarbons and organic compounds to identify what functional groups are present.

See http://www.venturacollege.edu/faculty_staff/academic_resources/core_competencies/index.shtml

A Note on Safety: Although all experiments have been tested and the laboratory equipped and managed for your safety, accidents can and do happen due to the danger inherent in experimentation. For your own safety, you must come to class on time, prepared with pre-reading done in the appropriate attire and pay attention to all instructions, verbal and written, when in the laboratory. **Any accidents, no matter how small, must be reported to me immediately.**

Attendance Policy: Attendance at every class meeting is mandatory. The course material must be performed during class time on the scheduled date; therefore, **there are no make-up labs**. By school policy, missing two weeks of class is grounds for being dropped from the course. Expect to attend every class meeting for the entire assigned time; all experiments are designed to go the full three hours. If you miss the first day of a multiple-day experiment, you are **not allowed** to attend the rest.

Equipment Policy: You are responsible for returning the equipment used in the lab or from your locker in the same condition you received it. After the check-in period, any damaged or unreturned equipment will be charged to your student account.

Academic Integrity: Cheating or plagiarizing on any assignment, quiz, or exam is strictly prohibited and will result in an automatic zero. Though most experiments require sharing of equipment and data, simply copying another student's work is cheating and will be grounds for disciplinary action.

Grading Policy: Your grade in this course will be determined as follows:

	A (100% - 90%), B (89% - 80%), C (79% - 70%), D (69% - 60%), F (59% - 0%)
Pre-Lab Assignments (best 14 of 15)	5%
Post-Lab Assignments (best 15 of 16)	20%
Quizzes (best 16 of 17)	30%
Unknowns (best 5 of 6)	15%
Technique	10%
Lab Final	20%

Late Work: All assignments must be turned in at the start of class the due dates listed on the schedule. Anything turned in beyond that time will be considered late and subject to a 20% penalty. Assignments will be accepted up to one week past the original due date; anything later will not be accepted. **There are no make-up labs.** If you miss an experiment, you may not make up the work and will receive an automatic zero for those assignments. This includes multiple day experiments.

Lab Notebook: You are responsible for the keeping of a carbonless copy lab notebook by the guidelines provided. The original pages will be turned in as your pre- and post-labs. The copies will remain in your notebook for your reference.

Pre-Lab Assignments: Found in your lab manual after the experiment text, pre-lab assignments must be completed in your lab notebook before attending that lab meeting and the original pages at the beginning of class. **Anything submitted later will not be accepted. Your lowest pre-lab score will be dropped.**

Post-Lab Assignments: Found in your lab manual after the experiment text, post-lab assignments are to be done at home in your lab notebook after the experiment is completed according to the guidelines. Often, they will include computer print-outs, additional pages for work, calculations, and analysis, and answers to the post-lab questions. The originals are due at the beginning of class when the next experiment begins. **Your lowest post-lab score will be dropped.** If you are absent from that week's lab, you may not complete the post-lab assignment.

Quizzes: Quizzes will be given the first 10 minutes of class on the dates listed on the schedule. If you arrive late, you will not be allowed any extra time to complete the quiz. The questions will resemble those included on the previous experiment's post-lab assignment. **There are no make-up quizzes.** You will always be allowed use of your calculator for every quiz. **Your lowest quiz score will be dropped.**

Unknowns/Technique: You will be periodically assigned "unknowns". These will be graded for accuracy. You will also be graded for your conduct in lab – your care with equipment, your cleanliness, etc., which will comprise the technique portion of your grade. **Your lowest unknown score will be dropped.**

Lab Final: Your lab final is cumulative. It will be a written examination consisting of questions seen previously on the in-class quizzes throughout the semester. It will be given on **Tuesday, December 8th at 9:30AM-12:20PM.**

Check-Out: If, for any reason, you drop the course before the end of the semester, you must contact me and arrange a check-out time. Otherwise, all students will check out of their drawers the last assigned class meeting. Students who do not check-out will be subject to a \$15 fee to their student account.