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CHMY 122.01: Introduction to General Chemistry Lab

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CHMY 122: Intro to General Chemistry Lab

Instructor: Kent Sugden

Email kent.sugden@umontana.edu

Office: CHEM 116

Office Hours: by appointment

Teaching Assistant:

Sierra Paske; sierra.paske@umconnect.umt.edu

Course Meeting Time: Mondays, 2:00 – 4:50 pm; Room 401 Chemistry Building

This course is an in-person course and **cannot** be delivered remotely.

Course Description

This course is designed to satisfy the chemistry laboratory requirements for the Missoula College nursing program. CHMY 122 introduces general and inorganic laboratory skills and concepts. Students practice careful measurements and observations, develop quantitative relationships between variables, apply patterns determined with known samples to unknown materials, and practice critical thinking skills.

Typically, the labs in this course are completed in partners. Due to COVID-19, we will only be using partners when absolutely necessary. Plan on completing the lab work on your own. You are encouraged to work together with other students when completing the lab reports. **Make sure all of your answers are written in your own words.**

Pre-requisites and Co-requisites for CHMY 122

- CHMY 121 is a pre-/co-requisite for this course.
- Fundamental algebraic skills.

Course Materials

- Safety Goggles, green with elastic strap
- Mask
- A lab notebook. Any notebook will do.
- Sharpie® felt-tip pen (available in bookstore, not required)
- Calculator

Labs

Each lab will be posted on Moodle prior to when it will be conducted in lab. A hard copy of the lab will be provided for you at the beginning of that lab. You will not be required to print anything. **Lab reports will be due by the end of the lab period.**

Our goal is to allow you enough time to get all your lab completed within the three hours of class. However, for complete understanding of the material you may need to work on the labs or study from them outside of class as well. If more time is needed let your instructor know and you may turn it in by the beginning of the next lab period. After that time, lab reports will be considered late and you will receive a zero.

Make-Up Labs and Absences

Many people may have last minute emergencies, sicknesses, or other unavoidable circumstances. To help alleviate stress from these situations, your lowest lab score will be dropped. If you need to make up a lab and it is a dry lab, we can discuss the possibility of completing it outside of room CHEM 401. If it is a wet lab, that will be considered your one dropped lab.

Exams

2 lab exams will be given. They will be a mix of short-answer and multiple-choice questions. Exam 1 will cover material from labs conducted between 1/24 and 2/28. Exam 2 will cover material from labs conducted between 3/4 and 4/18.

Lab Schedule

Date	Activity
Jan 17	No lab
Jan 24	Check-in Safety Waivers Lab 1 - Significant Figures
Jan 31	Lab 2 - Graphing
Feb 7	Lab 3 - Density
Feb 14	Lab 4 - Precipitates
Feb 21	No Lab; President's Day
Feb 28	Lab 5 - Dissolution and Heat
Mar 7	Exam 1
Mar 14	Lab 6 - Gas Laws
Mar 21	Spring Break
Mar 28	Lab 7 - Hydrates
Apr 4	Lab 8 - The Atom/Periodic Trends
Apr 11	Lab 9 - Solutions
Apr 18	Lab 10 - Acids and Bases
April 25	Check-Out Exam 2

Grading Distribution

Lab reports: 80% (Weighted equally, 1 dropped)

Exams: 20% (Weighted equally)

To receive an A, you must competently execute labs, demonstrate an understanding of the conceptual material relating to labs, and be able to relate this material to health sciences.

A+ Not awarded at UM

≥93.33% guarantees A ≥76.67% guarantees C+

≥90.00% guarantees A- ≥73.33% guarantees C

≥86.67% guarantees B+ ≥70.00% guarantees C-

≥83.33% guarantees B ≥66.67% guarantees D+

≥80.00% guarantees B- ≥63.33% guarantees D

≥60.00% guarantees D-

Student Code of Conduct

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code.

Disability Accommodations

The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Office of Disability Equity (ODE). ODE students, please contact me the first week of the semester to arrange accommodations, even if you do not yet have your ODE letter. If you think you may have a disability adversely affecting your academic performance, please contact ODE (Lommasson 154, 243-2243).

COVID-19 safety and prevention measures:

Mask use is required within the lab at this time. Specific seating arrangements will be used to ensure social distancing and support contact tracing efforts. If you feel sick and/or if exhibiting COVID-19 symptoms, stay home and please contact the Curry Health Center at (406) 243-4330. Additional up-to-date information can be found at the UM Coronavirus Website. (<https://www.umt.edu/coronavirus>)

This course syllabus is not a contract; it is a tentative outline of course policies. Changes may be made before, during, or after the semester at my discretion.