

# CHEM 112: Introductory Chemistry II Laboratory

Dr. Dan Albert

Spring 2022

## Contact Information

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*The best way to reach me is via university email.*

## Office Hours

I have an open door policy for meeting with you outside of class. If you ever walk by my door and it is open please feel free to stop to talk about any questions, comments, or concerns you have. The following times you can be guaranteed to find me available:

- Mondays from 12 - 2 pm
- Wednesdays from 2 - 3 pm
- Thursdays from 1 - 2 pm
- Fridays from 12 - 1 pm

*If you cannot make it to office hours please feel free to set-up an alternative time to meet with me by corresponding with me via email.*

## Required Materials

- Scientific Calculator: Your calculator for this course must be able to handle logarithms and exponents. This type of calculator can be found for around \$10.  
*Mobile devices and calculator programs/internal memory are not acceptable for use on quizzes*
- Laboratory Notebook
- Safety Goggles: Available from Bookstore or Chemistry Supply Room: Caputo 330

## Class Environment

I value a learning environment that is engaging, respectful, and helpful. I ask that you help maintain a learning environment that meets these goals for everyone in the class. Anyone whose behavior is disruptive of the learning environment for others in the class will be asked to leave.

My goal is for you to feel comfortable, appreciated, fairly treated, and encouraged to challenge yourself and obtain success. *Please come talk to me if there is anything I can do to help support you in achieving success.*

## Title IX

Millersville University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment, comply with Title IX of the Education Amendments of 1972, 20 U.S.C. §1681, et seq., and act in accordance with guidance from the Office for Civil Rights, the University requires faculty members to report to the University's Title IX Coordinator incidents of sexual violence shared by students. The only exceptions to the faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project. Faculty members are obligated to report to the person designated in the University Protection of Minors policy incidents of sexual violence or any other abuse of a student who was, or is, a child (a person under 18 years of age) when the abuse allegedly occurred.

Information regarding the reporting of sexual violence, and the resources that are available to victims of sexual violence, is available at <http://www.millersville.edu/socialreq/title-ix-sexual-misconduct/index.php>

## Grading

Your laboratory grade will be composed of the following components.

Category	Points
Prelab Checks	40 pts
Lab Reports	80 pts
Unknowns	60 pts
Lab Notebooks	20 pts

Your grades in each of these categories will be determined by the laboratory instructor (Dr. Albert). Your overall grade in the course is determined by your lecture instructor (Dr. Rajaseelan).

## Prelab Checks

Each prelab is worth 5 points. Your laboratory notebook should have a purpose, brief procedure outline, safety precautions, and answers to prelab questions completed before the beginning of each lab. Your notebook will be checked for pre-lab completion at the beginning of each experiment. There are 8 prelab checks throughout the semester.

## Lab Reports

Lab Reports are due at the beginning of lab the week after each experiment is complete and should be completed in the laboratory notebook. There are 5 lab reports during the semester with each report worth 16 points. For every laboratory experiment each student must answer prelab questions, keep detailed records of the experiment, and complete calculations and answers to questions in their laboratory notebook. The general format for lab reports for each experiment is as follows:

- Title of experiment and date (Prelab)
- Purpose of the experiment (Prelab)
- Answer to prelab questions (Prelab)
- Outline of the procedure with safety precautions noted (Prelab)
- Organized recording of data and observations (Lab Report)
- Results, Calculations, and Graphs (Lab Report)
- Conclusion and answers to post-lab questions (Lab Report)

Detailed information on keeping a laboratory notebook will be provided during our first laboratory.

## Unknowns

You will be provided three different unknowns (Qualitative Analysis I, II, and III). For these labs your lab notebook should contain a complete flow chart as part of pre-lab, a flow-chart with observations for your specific unknown, and the identification of the ions in your unknown. Each of these three unknown labs are worth 20 points.

## Lab Notebook

Keeping detailed records is an important element in scientific inquiry. Laboratory notebooks need to be well-organized and detailed records of what you completed in lab. Notebooks will be checked periodically during the semester to ensure that they follow appropriate guidelines for keeping scientific records. Notebook guidelines will be provided at the first laboratory.

## Attendance, Absences, and Make-Ups

Attendance at every lab is expected. If you must miss a lab please contact Dr. Albert as soon as possible so that we can schedule you into a different lab period. All laboratories must be completed in order to pass the course.

## Academic Honesty

The Millersville University Academic Honesty Policy states that:

*Students of the University are expected to be honest and forthright in their academic endeavors. To falsify the results of one's research, to steal the words or ideas of another, to cheat on an examination, to allow another person to commit, or assist another in committing an act of academic dishonesty, corrupts the essential process by which knowledge is advanced.*

The entire academic honesty policy can be found at <http://www.millersville.edu/english/for-faculty/academic-integrity/index.php>

All work that is turned in for a grade should be completed individually by the person whose name appears on the work. Students found to have violated the academic honesty policy will receive a score of zero on the assignment. Repeated instances of academic misconduct will be given the harshest punishment.

## Course Schedule

Please consult the laboratory schedule provided in Dr. Rajaseelan's Syllabus.

## Peer Learning Hours

Chemistry Peer Learning Hours are dedicated times available for students to come together and work on chemistry! If you are looking for a place to work on your chemistry assignments or need some help with your chemistry classes, Peer Learning Hours are here for you. No need to sign-up. Stop-by at any or all of the Peer Learning Hours. All Peer Learning Hours are staffed by a chemistry tutor to assist you if needed.

## Chemistry Peer Learning Hours Schedule

WR from 2 - 4 pm in Roddy 256

TWR from 5 - 7 pm in Roddy 256