

Lab: CHEM 111.02 B
Introductory Chemistry I
Spring 2025

Instructor: Dr. Maria V. Schiza, Ph.D.
Office: Caputo Hall 219
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Lab Meeting Times: **Thursday – Section B: 10:00-11:50 am Location - Caputo 328**
Office Hours: **Location - Caputo 219**
Mon & Wed: 9:00-10:30 am, Thu: 1-2 pm, Fri: 9:00-10:00 am
Alternative times can be scheduled by appointment or virtually through Zoom.

Welcome to CHEM 111.02 - Lab B:

I would like to welcome you all to CHEM 111.02 Lab B – Introductory Chemistry I! I am very excited to start this semester and meet you in-person.

Required Laboratory Materials:

- **Laboratory Experiments:** all documents will be available on Dr. Schiza's D2L - Lab B course
 - **Safety Glasses/Goggles for the laboratory:** can be purchased in the bookstore or online
 - **Laboratory Notebook:** can be purchased in the bookstore (bound/quadrille based) or online
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LAB:

All labs/experiments assignments need to be completed to pass the course. At least 60% of the points need to be earned in the lab in order for those points to be added to the overall course points. If you cannot attend a scheduled lab for reasons documented in the University-Approved Guidelines, please contact your lab instructor as soon as possible for any possible make-up work.

Graded Prelab Questions: Each new experiment has a set of prelab questions. Those need to be answered/completed before performing a new experiment. The prelab questions can be found at the end of experiment document. Students should type up the answers to the prelab questions and print them to submit during lab. Any challenging questions can be discussed during office hours or lab, if time permits.

Graded Lab Reports in the Lab Notebook: The lab notebook serves as proof of your work in the laboratory. For proper lab notebook setup & guidelines and for maintaining a good laboratory notebook, please refer to the D2L lab document on Safety and Record Keeping (page 12).

Each experiment's lab report should be completed in the lab notebook and should include the following, **in the order they appear:**

1) Descriptive experiment title	4) All calculations, with numerical answers, correct units, and significant figures
2) Brief outline of the procedure (bulleted format)	5) Answers to post-lab questions (numbered)
3) Data tables (for raw and calculated data)	6) Summary of findings (include numerical results) /possible errors and reasons for those errors

If an experiment requires the preparation of graphs, those should be made in Excel and taped before or after the calculations in the lab notebook. **All handwritten work should be legible. Non-legible work will not be graded and receive a grade of zero (0).** Lab notebooks will be due for grading, the Monday after the completion of each experiment. There will be a designated bin outside my office (Caputo 219) where you can drop your lab notebook off by 12 pm on Mondays. Once the notebooks are graded, you will receive an e-mail notifying you to pick-up your graded notebook from the bin outside of my office.

Tentative Laboratory Schedule:

Thursdays Morning Lab (111.02B)

Date	Title of Experiment	Laboratory #
Jan 23	Safety and Record Keeping / Lab Drawer Check-in	
Jan 30	Measuring Volumes – Technique	Lab 1
Feb 6	Separating Substances, Measuring Mass & Analyzing Data – Technique	Lab 2
Feb 13	Formula and Composition of a Hydrate: Part A - Technique	Lab 3 (2 Weeks)
Feb 20	Formula and Composition of a Hydrate: Part B - Technique	
Feb 27	Titrations – Technique	Lab 4
Mar 6	What is the Acidity of Vinegar? – Exploration	Lab 5 (2 Weeks)
Mar 13	Spring Break / No Lab	
Mar 20	What is the Acidity of Vinegar? – Exploration	
Mar 27	Molecular Models and Covalent Bonding - Exploration	Lab 6
Apr 3	Absorption Spectroscopy - Technique	Lab 7
Apr 10	Reaction Types and Qualitative Analysis – Technique	Lab 8 (2 Weeks)
Apr 17	Reaction Types and Qualitative Analysis – Technique	
Apr 24	What is Contaminating the Water Supply? – Exploration	Lab 9 (2 Weeks)
May 1	What is Contaminating the Water Supply? – Exploration Lab Drawer Check-out	
May 8	Finals / Evaluation Period / No Lab	

Laboratory Attendance:

Students **must attend lab every week**. Students **need to complete all laboratories assignments/lab reports**. A grade of 60% in lab is required to pass the course. Making up missed lab work is at the discretion of the lab instructor.

Academic Honesty:

Students are expected to conduct all work in an honest and ethical manner. Cheating on coursework bypasses the learning process and will **NOT** be tolerated. Anyone caught cheating will be assigned a score of zero on the work. **ALL work is individual**. Habitual academic dishonesty will be penalized to the maximum.

Cooperative Environment:

Students with any special concerns are welcome to approach me about them. Together, we can address each particular situation. Resources available include the Office of Learning Services and Tutoring Center (Lyle Hall).

Grading

Lab:

Prelab Questions (10 points each)	9	90 points
Lab Reports (15 points each)	9	135 points
Lab total		225 pts

CHEMISTRY PEER LEARNING HOURS - SPRING 2025

- Tues. 5–7 pm in Caputo 211
- Wed. 5-7 pm in Caputo 211
- Thur. 5-7 pm in Caputo 211

Stop in and Work on Chemistry!

No need to make an appointment simply come work on chemistry with your peers and get help from experienced tutors.

Starting January 28th and continuing through the Spring Semester.

Contact Dr. Rajaseelan - Edward.Rajaseelan@millersville.edu with any questions/concerns.

Title IX Statement

*Millersville University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to comply with the requirements of Title IX of the Education Amendments of 1972 and the University's commitment to offering supportive measures in accordance with the new regulations issued under Title IX, 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](#) 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.***