

CHEM 1001 B Fall 2026

General Chemistry I

Course Instructor: Dr. Katherine Marczenko

How to address me: Kate

Email:

KatherineMarczenko@cunet.carleton.ca

If you have or question or would like to talk with me, you can send an email, visit me during student hours (see below), or approach me after lecture.

Best Ways to be in Touch: in class, via email, or during student hours

Student Hours: TBA. See announcements on Brightspace

Office Location: Room 114 Steacie

Lecture Location: Southam Hall, KM Theatre

Lecture Times: Lectures Tuesdays and Thursdays from 11:30 AM – 1:00 PM

Tutorial: Fridays 2:30 – 3:30 PM, in 2000 MC

Prerequisites: Ontario 4U/M in Chemistry (or equivalent) strongly recommended.

Preclusions: CHEM 1005, 1011, 1101

Department/Unit: Chemistry

Course TAs: See the lab section on the course Brightspace site

Topics Covered and Learning Outcomes

Topics to be Covered

Detailed list of topics to be covered, *including dates and required reading for each week.*

WEEK (APPROXIMATE)	TOPIC/CONTENT	READINGS/PREP FOR CLASS
1	Intro Lecture, then material on The Behaviour of Gases	Chapter 2. The Behaviour of Gases. All Sections.
2 – 3	The Behaviour of Gases	Chapter 2. The Behaviour of Gases. All Sections.
4 – 5	Energy and its Conservation	Chapter 3. Energy and its Conservation. All sections.
6	Atoms and Light	Chapter 4. Atoms and Light. All sections.
7	Atomic Energies and Periodicity	Chapter 5. Atomic Energies and Periodicity. All Sections.
8	Fundamentals of Chemical Bonding	Chapter 6. Fundamentals of Chemical Bonding. All Sections.
9	Theories of Chemical Bonding	Chapter 7. Theories of Chemical Bonding. All sections.

WEEK (APPROXIMATE)	TOPIC/CONTENT	READINGS/PREP FOR CLASS
10	Effects of Intermolecular Forces	Chapter 8. Effects of Intermolecular Forces. All sections.
11	Properties of Solutions	Chapter 9. Properties of Solutions. All sections.
12	Organic Chemistry	Chapter 10. Organic Chemistry – Structure. All sections.

Important dates and deadlines can be found here:

<https://calendar.carleton.ca/academicyear/>, including class suspension for fall, winter breaks, and statutory holidays.

Assessments

COMPONENT	GRADE VALUE	DATE
ONLINE QUIZZES VIA WILEYPLUS	10 %	Assignment Zero (learn about WileyPlus), and one online quiz for each of chapters 2 - 10. Requires access to the Wiley online system, which comes with your book.
MIDTERM TEST	30 %	During class time on Thursday October 22.
FINAL EXAM	30 %	December 2026.
LAB	30 %	The lab portion must be completed to pass the course!

Late and Missed Work Policies

Late Work. The online quizzes each will have a deadline, typically the evening before the next chapter's lectures begin. Each quiz will be available well in advance, so the deadline is hard and fast, and will not be extended.

Missed Work. If you miss a lab, contact the lab coordinator to arrange for a makeup time. If you miss multiple labs, it may not be possible to arrange makeups for all of them, so remember that all labs must be complete to pass the course. Submit the [academic considerations form](#) for any missed work, including the midterm test or labs.

If you miss work for longer than 5 days, consult the [longer-term accommodation](#) policy.

Learning Material(s) and Other Course/Lab-Related Resources

(Note that these items will also be used in CHEM 1002)

LEARNING MATERIAL	HOW TO PURCHASE	COST
COURSE TEXTBOOK: “CHEMISTRY” 4TH EDITION BY OLMSTED, WILLIAMS AND BURK. INCLUDES E-BOOK AND WILEYPLUS ACCESS, WHICH YOU REQUIRE IN THIS COURSE.	Bookstore via Inclusive Access – see details on Brightspace.	\$139.99
LAB NOTEBOOK	Bookstore	\$34.95
LAB COAT	Bookstore	\$30.75
LAB GLASSES	Bookstore	\$6.50

Having a paper copy of the textbook (used or new) is fine, but you would still need to purchase access to the online system (“WileyPlus”) at wiley.com for \$139.99

Academic Accommodations and Regulations

Carleton is committed to providing academic accessibility for all individuals. You may need special arrangements to meet your academic obligations during the term. The accommodation request processes, including information about the Academic Consideration Policy for Students in Medical and Other Extenuating Circumstances, are outlined on the Academic Accommodations website (<https://students.carleton.ca/course-outline/>).

Statement on Generative Artificial Intelligence (GenAI) Usage. As our understanding of the uses of GenAI and its relationship to student work and academic integrity continue to evolve, students are required to discuss their use of GenAI in any circumstance not described here with the course instructor to ensure it supports the learning goals for the course. GenAI can answer just about any question in an intro chemistry course like CHEM 1001 or 1002. For this reason, 80% of your grade will come from in-person assessments such as the midterm test and final exam, as well as the lab component. The remaining 20% comes from the online quizzes which you complete on your own. You may be thinking “great, an easy 20% with the help of GenAI...” But the simple fact is that if you put little thought into these quizzes, you will fail the midterm test, the final exam, and likely the course itself. Use your own brain, and you will learn the material and do well in the course.

If you use GenAI to help guide you when writing a lab report, you must document this, clearly indicating what is not your original thought. GenAI is getting better at appearing to be human, but we are getting better at detecting what is not. Don’t take the chance – do your own thinking.

Statement on Academic Integrity. Students are expected to uphold the values of academic integrity, which include fairness, honesty, trust, and responsibility. Examples of actions that compromise these values include but are not limited to plagiarism, accessing unauthorized sites for assignments or tests, unauthorized collaboration on assignments or exams, and using Generative Artificial Intelligence (GenAI) tools when course assessment instructions indicate such use is not permitted.

Misconduct in scholarly activity will not be tolerated and will result in consequences as outlined in Carleton University's Academic Integrity Policy. A list of standard sanctions in the Faculty of Science can be found here.

Additional details about this process can be found on the Faculty of Science Academic Integrity website.

Students are expected to familiarize themselves with and abide by Carleton University's Academic Integrity Policy.

Student Rights & Responsibilities. Students are expected to act responsibly and engage respectfully with other students and members of the Carleton and the broader community. See the 7 Rights and Responsibilities Policy for details regarding the expectations of non-academic behaviour of students. Those who participate with another student in the commission of an infraction of this Policy will also be held liable for their actions.

Student Concerns. If a concern arises regarding this course, **your first point of contact is me**: Email or drop in during student hours and I will do my best to address your concern. If I am unable to address your concern, the next points of contact are (in this order):

Note: You can also bring your concerns to Ombuds services.

