

Physical Chemistry I - CHEM 2103

Fall 2025

Instructor: Bob Burk
Lab Coordinator: Daniel Sun

Lecture Hours

1:00 – 2:30 PM, Mondays and Wednesdays in 238 TB

Tutorials

Tutorials are offered for your benefit, on Fridays from 11:30 AM - 12:30 PM in 236 TB

Textbook

The text for the course is "Physical Chemistry" by Engel and Reid (4th edition), published by Pearson Education and is available in the Bookstore for \$107.50. It is packaged with access to the publisher's homework management system Mastering Chemistry, which you will be using. (This book and system will also be used in CHEM 2104, Physical Chemistry II. Other books, such as those by Atkins, are also useful, but I will be posting practice problems and assigning reading material from Engel and Reid, and you really do need access to Mastering chemistry anyways.)

Grading

Written Assignments: 10%
Mastering Chemistry Online Assignments: 10%
Midterm exam (**Wednesday October 15 in class**) 20%
Final exam: 30%
Lab: 30%

The lab portion of the course must be complete in order to receive a passing grade. None of the assignments, exams or lab are optional, and the marking scheme is the same for everyone. The final exam will not be weighted more to make up for a poor mark on a test or assignment

Problem Assignments

Four written problem assignments will be given. A total of 10% may seem to you to be too small to care about. The simple truth is that if you do not do these assignments and receive needed feedback, you will do poorly on the exams, where the stakes are much higher. Each assignment will have a due date and time after which you cannot get more marks. But the assignments will remain open after the due date for you to practice if you wish.

Laboratory

See the relevant section of the Brightspace site for details of the lab. Note that you must complete an on-line training course on Workplace Hazardous Materials Information System (WHMIS) before your first lab period, if you have not done so in the past.

Communicating With You

1. Visit me in 228 SC during office hours, which will be posted on the cuLearn calendar one week in advance. Make an appointment via email if you want extra time. No questions are too

- big or too small. Do not wait until the day before the test to ask questions...
2. Email me at robert_burk@carleton.ca. Emails received by 10 PM will be answered that day.

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 are outlined on the Academic Accommodations website (<https://students.carleton.ca/course-outline/>).

AI Use in This Course

Students may use AI tools for basic word processing and formatting functions, including:

- Grammar and spell checking (e.g., Grammarly, Microsoft Word Editor)
- Basic formatting and design suggestions (e.g., Microsoft Word's formatting tools, PowerPoint Design editor)

It is not necessary to document the use of AI for the permitted purposes listed above. Using AI for other purposes will be considered an instructional offence, and the penalties are severe, so just don't do it. We are good at what we do and are as familiar with AI as you are!

As our understanding of the uses of AI and its relationship to student work and academic integrity continue to evolve, students are required to discuss their use of AI in any circumstance not described here with the course instructor to ensure it supports the learning goals for the course.

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 artificial intelligence tools such as ChatGPT when your assessment instructions say it 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 and 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

Carleton University maintains and enforces a comprehensive policy on academic integrity. Please click [here](#) and read the policy in detail. It is your responsibility to understand the integrity standards and to abide by them.