



January 2025

Welcome to the General Chemistry Labs, Part II

General Chemistry Labs Staff



Lab Instructor: Dr. Irina
Denisova

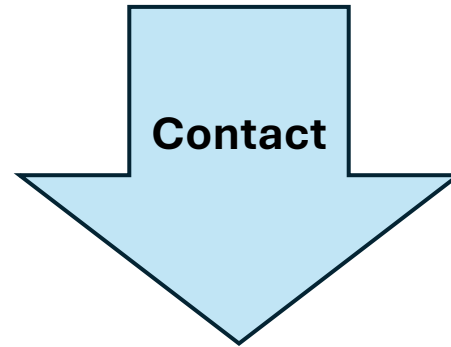


Lab Coordinator: Mr.
Badawy Sha'ath



Lab Technician: Ms. Grace
Koryszko

**To reschedule a lab or
request a make up lab**



Mr. Badawy Shaath

- **To ask for extension or accommodation**
- **Request grade revision**
- **Need help with technical issues/data**
- **Ask for a lab exemption**



Contact

Dr Irina Denisova

29 Teaching Assistants



ABDOLHOSSEINI	Marzieh
ALAGHEMAND	Faraz
BOUTHILLIER	William
CATLY	Jazmine
CHALLENGER	Jacob
CHUNG	Fiona
GREMI	Kristina
HANNA	George
HUANG	Alicia (Lingshan)
JABERI	Yasmeen
JANA	Sourav
JIN	Fuqing
KAUR	Manpreet
LIU	Grace (Jiawen)
MacDONALD	Devan
McCABE	Christina
MUNOZ PATINO	Natalia
NARAME	Celine
NASREDDINE	Zaki Abbass Ali
OLIVAN PONCE	Daniela
PARIHAR	Amanpreet
SAINI	Anjali
SINGH	Dushyant
STOCK	Konstantin
TON	Nu Thuy Tu
TSE	Helen
VELAZQUEZ	Luis Pablo
WU	Yihao
ZAKARIA	Hanine Bachir

Essential Information



The Gen Chem Labs – 20% of your total grade for CHEM-110



You must pass the labs to pass the course (55% minimum grade)



Lab attendance is mandatory



If you miss more than 2 labs and do not make up for the missing labs, you will automatically fail the labs and therefore the course

Labs Learning Objectives. By the end of this course, students will:

- Apply and connect theory concepts to laboratory practice of chemistry
- Acquire basic chemistry laboratory technical skills
- Properly use basic chemistry laboratory equipment and instruments such as glassware, balance, spectrometer, etc.
- Learn how to interpret and analyze acquired laboratory data
- Know how recognize whether their data is reliable
- Make a connection between chemistry concepts and real-life experiences



Chemistry is an experimental science



The chemical theories are proved by or derived from carefully designed and controlled laboratory experiments/observations.



Learning how to perform chemistry experiments is as important as learning about chemistry theory

[Content](#) [Zoom](#) [Discussions](#) [Assignments](#) [Classlist](#) [Grades](#) [Class Progress](#) [Course Admin](#) [Quizzes](#)



Winter 2025 CHEM-120/122 Labs

All the information about the labs (including schedule, manuals, and syllabus) can be found on the myCourses Lab webpage. It is separate from the MyCourses Lectures page.

To get started:

1

Read the Syllabus

2

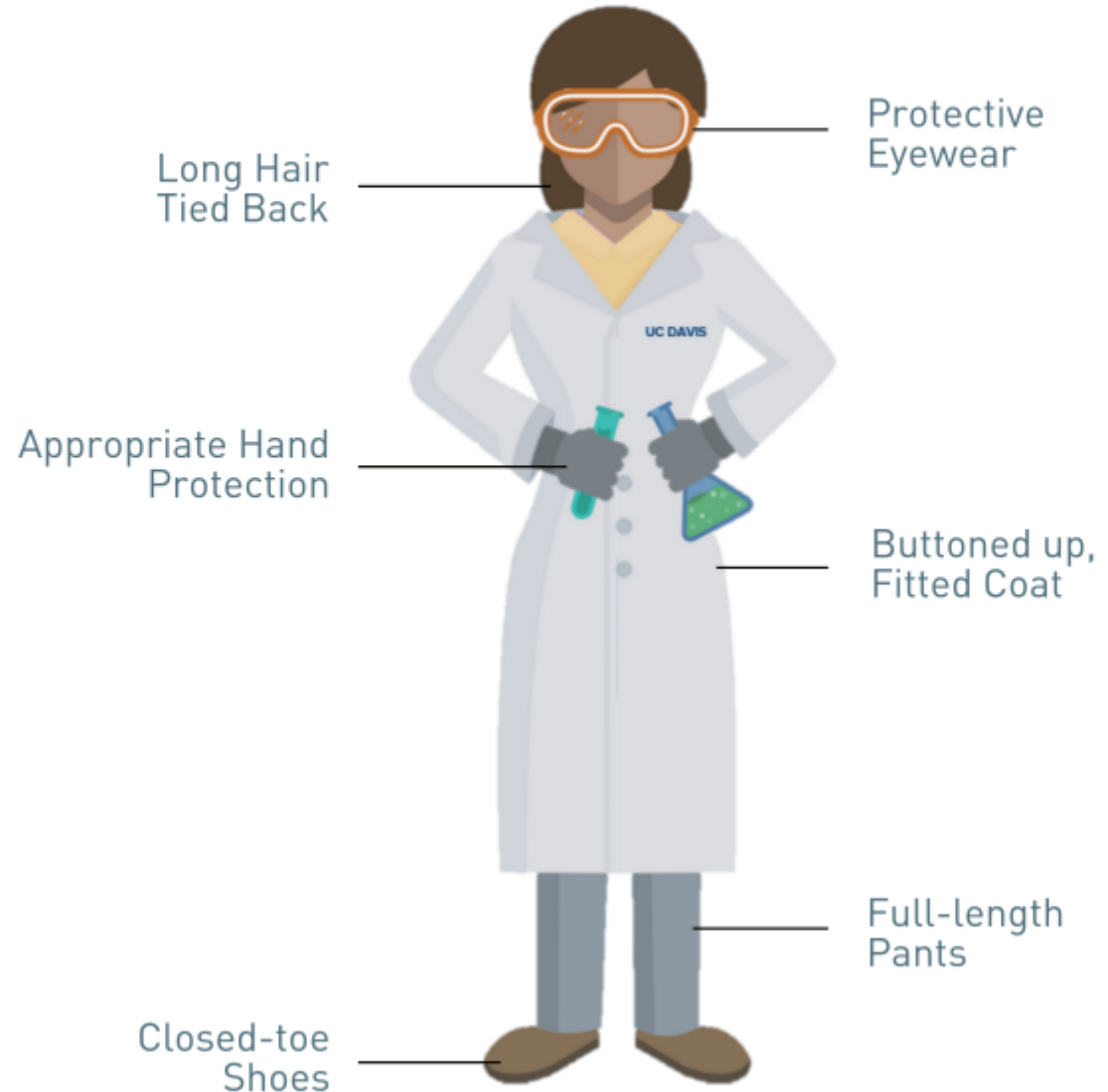
Watch the Safety
Video

3

Do the Safety Quiz
and get 100% to
be able to see the
first experiment.

Don appropriate PPE prior to conducting work

Safety



Safety Glasses

Wear at all times while in the lab

An orange rounded rectangular box with a white border containing the text "Wear at all times while in the lab".A pink arrow pointing downwards from the orange box to the green box.

On top of prescription glasses

A green rounded rectangular box with a white border containing the text "On top of prescription glasses".A grey arrow pointing downwards from the green box to the dark green box.

Contact lenses are forbidden in the lab


A dark green rounded rectangular box with a white border containing the text "Contact lenses are forbidden in the lab".

Lab exemptions

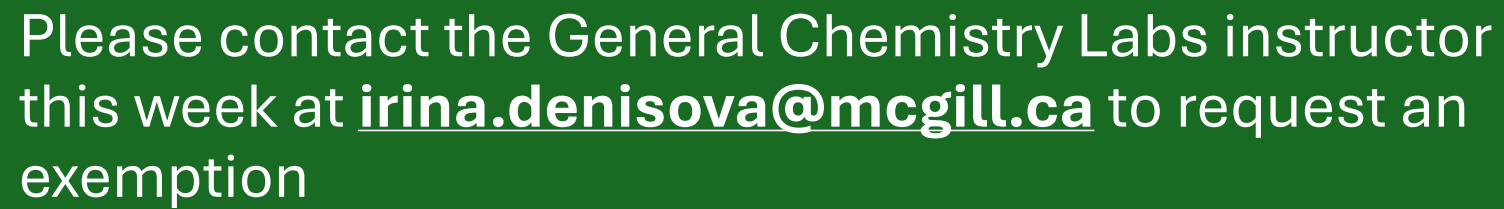
You might be eligible if you passed the lab in the last 3 years



Not automatic




Please contact the General Chemistry Labs instructor this week at irina.denisova@mcgill.ca to request an exemption



Accommodations

The accommodations for the mid-terms and the finals are done through the Student Accessibility & Achievements Office

If you need any accommodation for your labs/assignments, please let us know before the lab or assignment. We can not do anything after the assignment was submitted



Content/General Information/CHEM- 120/122 Winter 2025 Lab Schedule

Date	Lab Experiments	
	Group A	Group B
Jan 6-10	No labs	No labs
Jan 8-9 11:30 am & 2:30 pm	Info Sessions for new students (40-60 min)	Info Sessions for new students (40-60 min)
Jan 13-17	Gas Laws	No labs
Jan 20-24	No labs	Gas Laws
Jan 27-31	Kinetics	No labs
Feb 3-7	No labs	Kinetics
Feb 10-14	PBL 1	PBL 1
Feb 17-21	Titration/Precision and Accuracy	No labs
Feb 24-28	No labs	Titration/Precision and Accuracy
March 3-7	Spring break/No labs	
March 10-14	Acid/Base Equilibrium	
March 17-21		Acid/Base/Equilibrium
March 24-28	PBL 2	
March 31-4		PBL 2
April 7 (April 11 – last day of classes)	No labs	

Groups A and B

- The students will be assigned into Groups A and B by Jan 10th
- Please go to “Grades” and scroll all the way to the right past all the labs and quizzes to see which group you were assigned to.



[Content](#) [Zoom](#) [Discussions](#) [Assignments](#) [Classlist](#) [Grades](#) [Class Progress](#) [Course Admin](#) [Quizzes](#)



The lab is worth
20%
of your CHEM-120 course
grade
Total of 200 points

6 experiments
180 points

Final Quiz, April 7-8
20 points

**4 Pre-lab
Quizzes**
5 points each

4 Lab Reports
25 points each + 2
Reports for PBL 1 and 2
30 points each

Pre-Lab Quiz - to help you to prepare for the lab

To be completed
before the lab

10
questions/0.5
points each

3 attempts of 120
min each

Need to get $\geq 70\%$ to be able to see
the Data Sheet

Lab Manuals

- On MyCourses, under individual experiment tabs
- Visible one week before the experiment starts

0 % Outcomes + New Unit ⚙️ ☐ Hidden. [Conditions](#) are inactive

▶ Safety Video and Quiz

▶ General Information

▼ Gas Laws

Gas Laws Pre-Lab
Due: Jan 24, 2025 2:30 PM
Jan 6 - Jan 24

Gas Laws

Data Sheets

- On MyCourses, under individual experiment tabs
- Need to get 70% on the Quiz to see it
- Visible one week before the experiment starts

The screenshot shows a MyCourses interface. At the top, there is a navigation bar with links: Content, Zoom, Discussions, Assignments, Classlist, Grades, and Class Progress. Below this, a sidebar on the left contains a progress indicator for '0% Outcomes', a '+ New Unit' button, and a settings gear icon. A toggle switch is set to 'Hidden', with a note that 'Conditions are inactive'. The sidebar lists course units: 'General Information' and 'Gas Laws'. Under 'Gas Laws', there are several items: 'Gas Laws Pre-Lab' (due Jan 24, 2025 2:30 PM, Jan 6 - Jan 24), 'Gas Laws Lab Manual', 'Gas Laws Data Sheet' (highlighted with a blue box), and 'Gas Laws Lab Report' (due Feb 2, 2025 11:59 PM, Jan 13 - Feb 2). The main content area on the right contains a form with fields for 'First and Last Name:', 'Student ID Number:', 'TA:', 'Lab Section:', 'Date Performed:', and 'Vernier #:'. Below the form, there is a section titled 'Part III. Data collection to determine the rate of reaction with a known amount of reactant'. A bullet point asks: 'What is your numerical prediction for the rate of reaction? Please, include units.' At the bottom right, there is a 'Page 1 / 4' indicator and a partially visible table caption 'Table 1. System's volume'.

Content Zoom Discussions Assignments Classlist Grades Class Progress

0% Outcomes + New Unit Hidden. Conditions are inactive

General Information

Gas Laws

Gas Laws Pre-Lab
Due: Jan 24, 2025 2:30 PM
Jan 6 - Jan 24

Gas Laws Lab Manual

Gas Laws Data Sheet

Gas Laws Lab Report
Due: Feb 2, 2025 11:59 PM
Jan 13 - Feb 2

First and Last Name: _____

Student ID Number: _____

TA: _____

Lab Section: _____

Date Performed: _____

Vernier #: _____

Part III. Data collection to determine the rate of reaction with a known amount of reactant

- What is your numerical prediction for the rate of reaction? Please, include units.

Page 1 / 4

Table 1. System's volume

Personalized Procedure

- Lab manual procedure in your own words
- Concise
- You should be able to do your experiment by following your personalized procedure
- You can write by hand, type or draw diagrams
- Bring it to the lab to get it signed by your TA
- Can not be copied directly from the Lab Manual
- You might not be allowed to do the lab if you do not have your procedure



Individual Lab Report, 25 points

Personalized Procedure	To be written before coming to the lab and signed by your TA	2 points
Datasheet	To be completed during the lab and signed by your TA	3 points
Lab Report Template	To be completed after the lab (will be specified in the lab manual)	20 points

Lab Report Templates

- Will be provided to you in Word format for all the experiments as an attachment under Assignments

Assignment
No Category
Gas Laws datasheet and report Due on Feb 2, 2024 11:59 PM Starts Jan 15 Attachments Gas laws report template W2024.docx (34.48 KB)
Kinetics datasheet and report Due on Feb 16, 2024 11:59 PM Starts Jan 29 Attachments Kinetics report template W2024 MyCourses.docx (51.7 KB)

Preparing your Lab Report

- Download the Lab Report template to your device
- Use Word app (desktop or free on-line app through McGill) to write your report
- Consult the grading RUBRIC for the experiment BEFORE writing your report
- Compile your Data Sheet, Personalized Procedure and Lab Report Template as a SINGLE .pdf file.

Steps for Lab Report submission

- Convert all the files into PDF format and merge them together

- Use free software, for example, from [iLovePDF](https://www.ilovepdf.com/) | Online PDF tools for PDF lovers

Submit a SINGLE .pdf
file

If your report is

- **submitted in a wrong format**
- **files are not merged**
- **or it is illegible**

a penalty of up to 100% will apply

Assignment Submission



0 %
Outcomes

+ New Unit



Hidden

Add Existing

Create New



General Information

Lab Schedule

Lab Syllabus

Submitting your
Lab Report to MyC

Gas Laws

Gas Laws Pre-Lab
Due: Jan 24, 2025 2:30
PM

Jan 6 - Jan 24

Submitting your Lab Report to MyCourses

This guide is to help you to ensure that you submit your Lab Report correctly.

Lab Report

- Use the Word Lab Report Template provided to TYPE your answers.
- Convert your Lab Report Template form into pdf document
- Convert your signed Data Sheet and personalized procedure to the pdf format
- Compile all the documents in ONE pdf file using a website such as [iLovePDF | Online PDF tools for PDF lovers](#)

For most programs, you can save your document as a pdf by clicking on *Save as* from the *File* menu and choosing *.pdf file extension from the dropdown menu.

Lab Report Submission Deadlines

DEADLINE 1:
2 days from the day of the lab
by 11:59 pm.
NO PENALTY



DEADLINE 2:
48 h from DEADLINE 1, by
11:59 pm.
5% PENALTY



DEADLINE 3:
7 days from DEADLINE 1, by
11:59 pm.
20% PENALTY



After the 3rd Deadline

- The PENALTY is 100%
- You are responsible for verifying if the document submission was successful

Grading

Your reports will be graded by your TA directly on MyCourses

All TAs will follow the same grading Rubric

The Rubrics are available BEFORE the report submission

Important:

You must submit a satisfactory lab report for each lab you attend



If you do not submit a lab report, you will be given “0”



If you get more than two “0” for the lab reports, because you do not submit them, you will automatically fail the lab

Absences

If you need to miss a lab due to an illness, university sanctioned trip or family emergency, please let Mr. Shaath know by email badawy.shaath@mcgill.ca

Unacceptable reasons: exam on the same day as lab, personal travel, misreading schedule, being sent home from lab for incomplete pre-lab/inappropriate lab attire

For your first missed lab if you let us know **BEFORE** your lab, we will reschedule you without the need of a note or documentation

If you let us know after your lab, or you have already rescheduled a lab once, please provide documentation



Policy on Academic Integrity

<https://www.mcgill.ca/students/srr/academicrights/integrity>

In the lab, this means individual work should be done individually

Do not copy word for word from each other, or from internet resources

Do not falsify data. If something goes wrong, we will work with you, so you have data to work with

We digitally check your reports. Plagiarism will likely be detected

Policy Statement on Language

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded. (Approved by Senate on 21 January 2009)

Conformément à la Charte des droits de l'étudiant de l'Université McGill, chaque étudiant a le droit de soumettre en français ou en anglais tout travail écrit devant être noté (sauf dans le cas des cours dont l'un des objets est la maîtrise d'une langue).

Discussion board – useful tool to ask questions about the experiments

McGill myCourses Winter 2025 - CHEM-120-003/004/0... ID Irina Denisova

Content Zoom **Discussions** Assignments Classlist Grades Class Progress Course Admin Quizzes

Discussions

[Discussions List](#) Subscriptions Group and Se

New More Actions

Filter by: Unread Unapproved

▼ Collapse All For

Lab Discussion Board

Topic	Threads	Posts	Last Post
General Discussion Aug 28 - Dec 13	3	6 (2)	Wenyu Sun 1 hour ago
Mystery Sep 2 - Sep 27	3	6 (2)	Wenyu Sun yesterday at 9:48 PM

The background of the image is a solid teal color. It is covered with a repeating pattern of speech bubbles. Each speech bubble is a different color, including shades of red, yellow, purple, and grey. Inside each speech bubble is a dark blue question mark. The bubbles are scattered across the entire frame, creating a dense, textured effect.

Questions?