

Welcome to Chem 110!

General Chemistry I

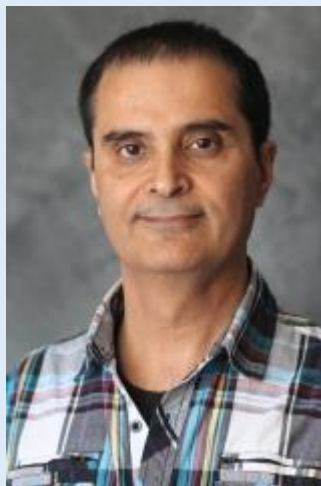
Chem 110

Fall 2024

Your Instructors (Lectures)



Prof. Pallavi Sirjoosingh



Prof. Ashok Kakkar



Prof. Maureen McKeague

Email: chem110-120.chemistry@mcgill.ca

Announcement on myCourses regarding office hours in the next week

For help with course content, please contact us using the course email or use the **myCourses Discussion Board**

Your Teaching Assistants (TAs)



Emma



Vivian



Aracelli



Nu Thuy Tu Ton

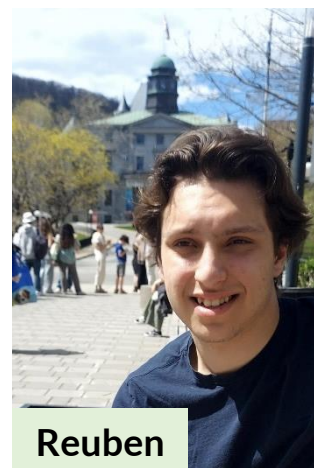
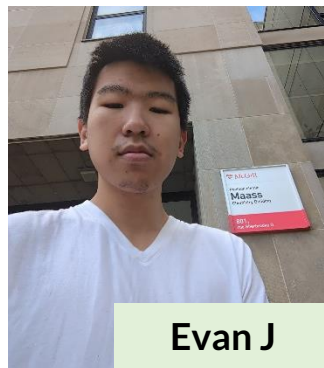
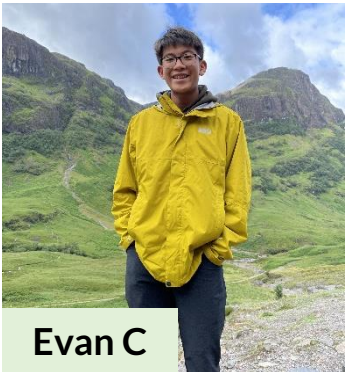


Yunxiang



Amin

Tomlinson Undergraduate Mentors



Tomlinson Undergraduate Mentors



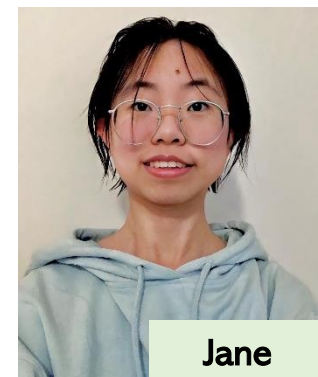
Tina



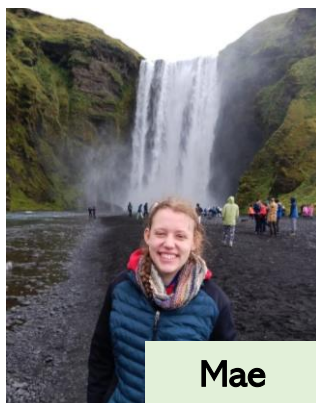
Victor



Katarina



Jane



Mae



Spiros



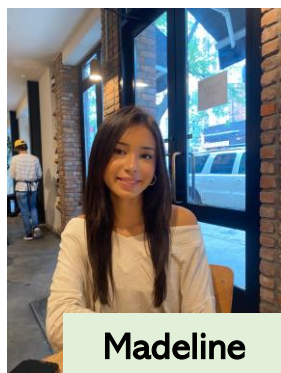
Jack



Mysha



Sibyl



Madeline



Rylee



Natalie

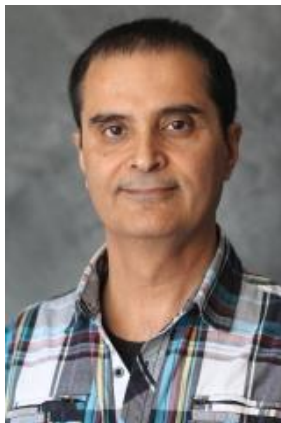
Overview of Course Topics

August 28th to Oct 4th



Atomic Structure
Quantum Theory
e⁻ Configuration
Periodic Trends
Chemical Bonding

Oct 7th to Nov 1st



VSEPR Theory
Hybridization
Molecular Orbitals
Main Group Elements
Intermolecular Forces

Nov 4th to Dec 4th



Intro to Organic Chem
Nomenclature
Org Chem Reactions
Transition Metals &
Coordination Chem

Class Structure

Before week's Lectures

Watch Concept Videos for the week posted under the Content Section Folder
Notes/Class slides available
Practice Problems to go with the videos

Active Learning Lectures

Section 001: M/W/F: 10:35 – 11:25 am (Lea132)

Section 002: T/Th: 11:35 – 12:55 pm (FDA)

Active Learning Lectures: Instructor-led practice problems (Recorded) and/or Review (peer group discussion). Reviews are scheduled for either Thursday (FDA) or Friday (Lea)

You can attend either lecture sections without making any change to your registration. Both sections cover the same content and have the same assessments



Success in Chemistry

We believe that anyone can do well in Chem110. Chemistry can be challenging – we want you to enjoy the challenge and learn about chemistry and its applications. We have added flexibility and repetition in the course and evaluation scheme to ensure you have chances to learn and improve throughout the semester. Quizzes and Reviews will help you keep up with the content regularly and prepare you for the timed assessment and final exam. Reviews are meant to be interactive (hence the attendance component). These small component assessments are designed purposefully to encourage interaction among students and help you learn the content by repetition.

myCourses Lecture Page

Core Course Materials all available (for free) on myCourses

Concept Videos

Lecture content in short (<30 minutes) videos that you should watch before the week's class.

Lecture Notes

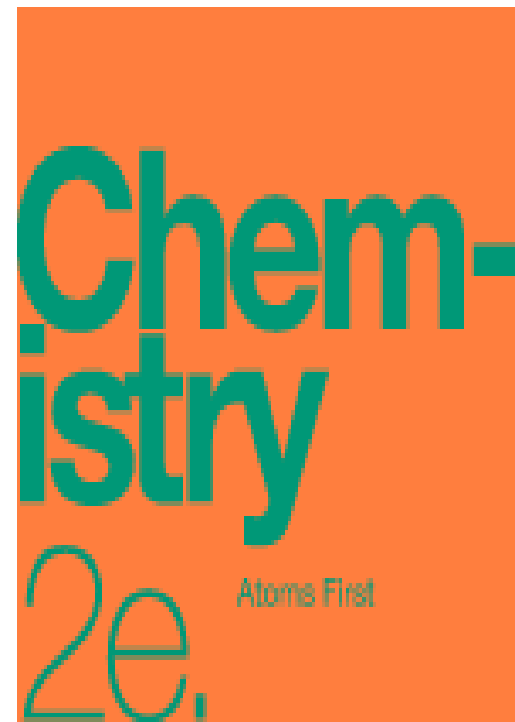
All lecture content for the course

Practice Problems

For each section there are dedicated practice problems for practice and review

Textbook

- Available Online For Free
- If you would like a print version – can order for a low cost
- Chemistry: Atoms First from OpenStax,
 - Print ISBN 1947172646
 - Digital ISBN 1947172638,
- <https://openstax.org/details/books/chemistry-atoms-first-2e>
- Web view is recommended -- the responsive design works seamlessly on any device.
- If you buy on Amazon, make sure you use the link on your book page on openstax.org so you get the official OpenStax print version. (Simple printouts sold by third parties on Amazon are not verifiable and not as high-quality.)
- There will also be print copies available at the McGill library.



Calculator

Need a scientific calculator for Chem110

Cannot use your personal electronic devices for any in-person exams (midterm/final)



Optional Course Materials: Polling App

Register your account (for free) and join the polling at

www.mcgill.ca/polling

Join Polling Session **Register Your Account**

Polling @ McGill (also known as the Student Response System or SRS, or previously known as clickers) is a technology-supported questioning strategy to assess students' learning and encourage active classroom participation. At McGill, we are using a web-based polling system, called TurningPoint. During a class with polling questions, students respond from their personal device (smartphone, tablet, or laptop).

Getting Started for Students	Getting Started for Instructors
<ol style="list-style-type: none">1. To register your account (required):<ol style="list-style-type: none">a. Select Register Your Account above and sign-in with your McGill username and password.b. Follow the prompts to agree to the terms of use and create your account.2. To participate in class:<ol style="list-style-type: none">a. Download the TurningPoint app (iOS or Android) or click Join Polling Session above.b. Your instructor will provide you with a Session ID at the beginning of class.	<ol style="list-style-type: none">1. Select the Register Your Account button above and sign-in with your McGill username and password.2. Follow the prompts to agree to the terms of use and create your account.3. Download TurningPoint for PC or Mac on the Downloads page after creating your account.4. To learn how to use Polling @ McGill, view the documentation (below) and/or request a consultation or group workshop.

Welcome to TurningPoint

Session ID **Join Session**

Support and Documentation for Students

- [FAQs for students](#)
- [TurningPoint app for iOS](#)
- [TurningPoint app for Android](#)

More details will be provided

slido



Which country did you grow up in?

ⓘ Start presenting to display the poll results on this slide.



Did you read the Chem110 syllabus?

ⓘ Start presenting to display the poll results on this slide.

McGill and Chem 110 Policy Statements

Academic Integrity

McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the “[Code of Student Conduct and Disciplinary Procedures](#)” (Approved by Senate on 29 January 2003) (See McGill’s guide to academic honesty for more information).

L'université McGill attache une haute importance à l'honnêteté académique. Il incombe par conséquent à tous les étudiants de comprendre ce que l'on entend par tricherie, plagiat et autres infractions académiques, ainsi que les conséquences que peuvent avoir de telles actions, selon le [Code de conduite de l'étudiant et procédures disciplinaires](#). » (Énoncé approuvé par le Sénat le 29 janvier 2003) (pour de plus amples renseignements, veuillez consulter le guide pour l'honnêteté académique de McGill.)

Language of Submission

In accord with McGill University’s [Charter of Students’ Rights](#), students in this course have the right to submit in English or in French written work that is to be graded. This does not apply to courses in which acquiring proficiency in a language is one of the objectives.” (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. » (Énoncé approuvé par le Sénat le 21 janvier 2009)

McGill and Chem 110 Policy Statements Cont.

Extraordinary circumstances

In the event of extraordinary circumstances, the content and/or evaluation scheme in this course is subject to change .

Policy Statement on Course Material

Instructor-generated course materials (e.g., handouts, notes, summaries, exam questions, etc.) are protected by law and may not be copied or distributed in any form or in any medium without explicit permission of the instructor. Note that infringements of copyright can be subject to follow up by the University under the Code of Student Conduct and Disciplinary Procedures.

Diverse Learners

As instructors of this course, we endeavor to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with us and the [Student Accessibility and Achievement](#), 514-398-6009.

Course Evaluations

Grade Item	Chem110		Chem110 Lab Exempt	
Labs	20%		N/A	
	Quizzes+Reviews = 15% (Best of two choices)		Quizzes+Reviews = 25% (Best of two choices)	
Quizzes	10%	15%	20%	25%
Reviews	5%	0%	5%	0%
	MT + Final = 65% (Best of two choices)		MT+ Final = 75% (Best of two choices)	
Midterm (MT)	20%	0%	20%	0%
Final Exam	45%	65%	55%	75%

*The laboratory counts for 20% of the course grade but is a required course component. If you fail the lab and pass the lecture, you will receive an “F” grade and must redo the entire course.

Evaluation Details

Quizzes and Reviews add up to 15% (25% for Lab Exempt) of your overall grade. At the end of the semester, your overall grade will be calculated using all three schemes, and the best option will be applied to your final calculated grade. You do not need to make a choice.

Quizzes

Timed multiple choice quizzes held through **myCourses**. 1 attempt.

Each quiz is worth 10 points (9 quizzes = 90 points total). The points for each quiz will be added together, and the total will be graded out of 70 points (Maximum points possible: 70).

Example :

Student 1 Scores : Q1: 2; Q2: 6; Q3: 10; Q4: 8; Q5: 8; Q6:10; Q7: 10; Q8: 0; Q9: 4

Total : 58/70

Reviews

Will be held during scheduled class time. 9 total reviews scheduled. Each review is pass or fail.

To get full credit for each review, students must attend the review in-person and submit the requested answer on Crowdmark during the class time.

Each review is worth 0.833..% (maximum up to 5%), so you need to attend and submit 6 reviews, out of the 9 scheduled, to earn the maximum points. There will be no make-up or deferred reviews.

Evaluation Details

Midterm and Final Exam add up to 65% (75% for Lab exempt) of your overall grade. At the end of the semester, your overall grade will be calculated using the two schemes, and the best option will be applied to your final calculated grade. You do not need to make a choice.

Midterm Exam

One midterm exam will be administered in-person.

Mix of short-answer and long-answer questions. Details in syllabus/myCourses closer to the date of the exam.

Date: November 7th 2024; 6:30 to 8:30 pm

Final Exam

Cumulative exam during final exams period.

Date: TBA by the exam office

No instructor at McGill is authorized to alter the time/date of a final exam or to offer a special writing opportunity. Please consult: <http://www.mcgill.ca/conted-students/exams/conflicts/>

Chem110 Schedule (September)

CHEM110 SECTIONS 001 (Lea132) and 002 (FDA) SCHEDULE (LECTURE) FALL 2024					
	Mon	Tue	Wed	Thu	Fri
Sept			28 Intro Lecture (Lea132)	29 Intro Lecture (FDA)	30 Intro Lecture (Lea 132)
	2 Labor Day	3 In-class Practice (FDA)	4 In-class Practice (Lea132)	5 In-class Practice (FDA)	6 In-Class Practice (Lea132)
	9 In-class Practice Lea132	10 In-class Practice (FDA)	11 In-class Practice Lea132	12 REVIEW Practice FDA	13 REVIEW Practice (Lea 132)
	Quiz 1 Opens				Quiz 1 Closes
	16 In-class Practice (Lea132)	17 In-class Practice (FDA)	18 In-class Practice (Lea132)	19 REVIEW 1 (FDA)	20 REVIEW 1 (Lea132)
	Quiz 2 Opens				Quiz 2 Closes
	23 In-class Practice (Lea132)	24 In-class Practice (FDA)	25 In-class Practice (Lea132)	26 REVIEW 2 (FDA)	27 REVIEW 2 (Lea132)
	Quiz 3 Opens				Quiz 3 Closes
	30 In-class Practice (Lea132)	1 In-class Practice (FDA)	2 In-class Practice (Lea132)	3 REVIEW 3 (FDA)	4 REVIEW 3 (Lea132)
	Quiz 4 Opens				Quiz 4 Closes
Oct					

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The Schedule for the entire semester is posted on myCourses under Content --- General Information

General Chemistry Labs



Lab Instructor:
Dr. Irina Denisova



Lab coordinator:
Mr. Badawy Sha'ath

For any questions about Labs

E-mail: irina.denisova@mcgill.ca

Fall 2024 - CHEM-110/112 Labs

Announcements Calendar

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.

Lab attendance is mandatory. You must pass the labs to pass the course.

Labs. Info Sessions.



- Labs will start with the information sessions next week, Sept 3th to 7th.
- Please come in-person on the day and time you have registered for on Minerva to the Otto Maass Chemistry building.
- General Chemistry labs are in the basement, room 1.
- Monday, Sept 2nd is a holiday. If your labs are on Mondays, please come to any other session during the week.

Labs. Preparation for next week:

- Read the Lab Syllabus on MyCourses Lab page
- Watch the Safety Video
- Do the Safety Quiz to be able to see the Lab Manuals

McGill myCourses Fall 2024 - CHEM-110/112

Content Zoom Discussions Assignments Classlist Grades Class Progress Course Admin

0% Outcomes + New Unit

Safety Video and Quiz

Safety Quiz Aug 28 - Oct 4

Chemistry Safety Video

Safety Video and Quiz



Did you read the Chem110 syllabus?

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Next Steps

PREPARATION FOR NEXT WEEK:

myCourses – Chem110 Page

Content

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Sept (3-7)

Watch the concept videos and try the practice questions

We are here to help!

Course resources and help

Email us or use the Discussion Board, and interact with each other!

One-on-one or group help with TEAM mentors

Peer Collab – Drop-in help 2x week small group help session with TEAM mentors. Details to follow!

chem110-120.chemistry@mcgill.ca

Other resources

<http://www.mcgill.ca/firstyear/undergraduate/your-first-year/involvement>

<https://www.mcgill.ca/tutoring/request>

<http://peertutors.sus.mcgill.ca/>

<http://www.mcgill.ca/internationalstudents/once-here/language>

<https://www.mcgill.ca/access-achieve/>

<http://www.mcgill.ca/studenthealth/healthservices>

<https://www.mcgill.ca/studentservices/>

<https://www.mcgill.ca/wellness-hub/>