

# Chem 1301A (Fall 2023–24)

## Discovering Chemical Structure

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### Welcome to Chem 1301A!

Please download and save this course outline for future reference.

Course Description & Prerequisite Requirements.....	2
Key Dates .....	2
Course Website.....	3
Learning Outcomes.....	3
Class Topics .....	4
Course Materials .....	5
Course Personnel, Lecture Info, and Contact Info .....	6
Learning Support and Resources .....	7
OWL Forums.....	7
Chemistry Resource Room .....	7
Instructors' Student Hours.....	7
Learning Development & Success.....	7
Tutors .....	7
Laboratory Information .....	8
Experiments, Schedule, and Location .....	8
Lateness Policy .....	8
Safety and Dress Code .....	8
Preparation .....	9
Lab Submissions .....	9
Team-Based Problem-Solving Modules .....	10
Evaluation .....	10
Components .....	10
Requirements for Passing Course .....	11
Scantron-Marked Assessments.....	11
iClicker.....	11
Equal Opportunity and Evaluation Policy.....	12
Student Absences and Missed Course Components .....	12
How to Attain Your Goals in Chem 1301A .....	16
Academic Policies and Legalities.....	17
Accessibility and Religious Accommodation.....	18
Additional Support Services.....	18



## Course Description & Prerequisite Requirements

Calendar description: *An introduction to the foundational principles of chemical structure and properties, emphasizing their relevance to modern science. Topics include: atomic structure, theories of chemical bonding, structure and stereochemistry of organic molecules, and structure of coordination complexes.*

Extra information: 3 lecture hours, 1.5 laboratory hours. 0.5 course. Fully in-person.

Prerequisite: Grade 12U Chemistry or equivalent.

Unless you have either the prerequisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

Students repeating the course must repeat the lab component. There are no lab exemptions.



## Key Dates

Date	Event
Wednesday, September 13	In-class Diagnostic Quiz based on high-school chemistry
Friday, September 15 ("Add deadline")	Last day to make registration changes, such as lecture and lab sections. This is the last day to de-register from a fall-term or full-year course and remove it from your academic record.
Sunday, September 17	Online assignment on administrative matters due at 11:55 pm
Week of September 18	Personalized lab schedule and location, and link to Achieve sign-up, will be posted on OWL under <i>PostEm</i>
Friday, September 22	Lab rotations start
Friday, September 29	University-designated non-instructional day
Sunday, October 1	In-person October Quiz (3:00–4:00 pm). Room assignments will be posted on OWL under <i>PostEm</i> .
Saturday, October 28	In-person Midterm Test (7:30–9:30 pm). Room assignments will be posted on OWL under <i>PostEm</i> .
Monday, November 13 ("Drop deadline")	Last day to drop a fall-term course without academic penalty. If you drop the course on or before this date, it will be shown on your academic record as WDN (withdrawn). Dropping after this date will result in a WDF, which counts as an F.

## Course Website

News, course updates, and relevant materials will be posted on Western's learning management system, OWL (<http://owl.uwo.ca>). This is the primary method by which information will be disseminated to all students in the class, so you are responsible for checking OWL on a frequent basis.

If you need technical assistance with OWL, seek support on the OWL Help page. Alternatively, contact the Western Technology Services Helpdesk by phone at 519-661-3800 or extension 83800.

## Learning Outcomes

Chem 1301A has an emphasis on the development of skills such as critical thinking, problem solving, and quantitative reasoning; these “professional skills” are essential to success in not just chemistry but also in other courses and in many occupations. A student receiving credit for Chem 1301A will be expected to reliably demonstrate competence in their ability to:

<b>Discipline-Specific Expectations</b>	<b>Professional-Skill Expectations</b>
Describe the importance of chemistry in everyday life and the interdisciplinary nature of chemistry.	Analyze and critically assess problems, and take a systematic approach to solve them.
Use critical thinking skills to explain, make connections between, and apply chemical principles, laws, and theories pertaining to fundamental chemistry, atomic theory, molecular shape & structure, and the various properties of matter.	Work independently, as well as with others in an effective, practical, social, and ethical manner.
Evaluate and assess chemical data and explain how they relate to chemical theories/laws.	Obtain, evaluate, and integrate information from various sources, and determine its relevance.
Apply chemical theories or laws to solve a variety of new qualitative and quantitative chemical problems.	Prioritize tasks and manage the use of time.
Conduct experiments and draw conclusions from collected experimental data and results.	Execute mathematical calculations accurately.
Safely use a variety of laboratory equipment and instrumentation to perform experimental procedures and explain the underlying theory behind all of them.	Communicate thoughts, ideas, and observations verbally and in writing.
	Recognize when to seek assistance.
	Develop respect for, and comply with, regulations and policies.
	Accept responsibility for their decisions, actions, and inactions.



## Class Topics

Workbook Chapter	Class Topic	Approx # of Classes
	Welcome	1
1	Self-Study Concepts <ul style="list-style-type: none"><li>This will not be on tests or the final exam, but key concepts will be on lab reports.</li></ul>	0
	Diagnostic Quiz (based on high-school chemistry)	1
2.1	Atomic Theory <ul style="list-style-type: none"><li>Atomic structure, orbitals, electron configuration</li></ul>	5
2.2	Periodic Properties	2
3.1	Ionic and Covalent Bonding <ul style="list-style-type: none"><li>Lewis structures, resonance, bond polarity</li></ul>	5
3.2	VSEPR Theory <ul style="list-style-type: none"><li>Shapes and polarity of molecules</li></ul>	2
3.3	Intermolecular Forces	1
3.4	Valence Bond Theory <ul style="list-style-type: none"><li>Hybridization and formation of <math>\sigma</math> and <math>\pi</math> bonds</li></ul>	2
3.5	Molecular Orbital Theory	2
4	Transition Metals <ul style="list-style-type: none"><li>Coordination complexes and crystal field theory</li></ul>	4
5.1	Functional Groups and IR Spectroscopy	2
5.2	Alkanes and Cycloalkanes <ul style="list-style-type: none"><li>Constitutional isomerism and conformations</li><li><i>cis/trans</i> isomerism of substituted cycloalkanes</li></ul>	3
5.3	Alkenes and Alkynes <ul style="list-style-type: none"><li><i>cis/trans</i> isomerism and <i>E/Z</i> nomenclature of alkenes</li></ul>	2
5.4	Chirality <ul style="list-style-type: none"><li><i>R/S</i> nomenclature of tetrahedral stereocentres</li></ul>	2

In all of the topics, the primary focus is on the *understanding* and *application* of the concepts. Accordingly tests and exams will be designed to evaluate your comprehension of the material and your ability to apply it to new and different scenarios. Students should not expect questions that simply test your ability to regurgitate memorized facts or substitute numbers into formulas.

# Course Materials

## Chemistry 1301A Course Workbook, 2023–24 edition

- Classes, tests, and exams will be based on this year's edition. Classes are designed to help you understand material from the workbook and develop problem-solving skills. To obtain the maximum benefit from the workbook and from the classes, it is recommended that you read the relevant topics before coming to class.

## Chemistry 1301A Laboratory Manual and Past Tests & Exams, 2023–24 edition

- Old editions may not be used. Students must bring the current edition to every experiment.
- The course has partnered with Macmillan for the lab component. Macmillan's Achieve platform will be used for lab submissions. An access code is located in the lab manual.
- **You will be provided with your own link for signing up on Achieve during the week of September 18. You must sign up using your Western email address before your first lab.**

Your Western email ends in  
@uwo.ca.

Using any other email will  
result in mark of zero on the  
lab component.

## Safety Glasses

- Safety glasses are included with the purchase of the laboratory manual. Redemption details will be posted on OWL. **Safety glasses are not available for rent.**

## Lab coat

- For your safety, a proper lab coat is required. Scrubs or "consultation coats" are not acceptable, because they are too short, do not offer enough protection to the upper body, or are not sufficiently fire-resistant.
- The lab coat can be purchased at the bookstore or obtained elsewhere. Past students have brought one from a place that they worked at, the Ontario Science Centre, etc. The lab coat can be of any colour and even tie-dyed! Sorry, we do not rent lab coats.

## Molecular model kit, by Darling Models

- Other model kits may be used, but we highly recommend this kit for its ease of use.

## Web-enabled device (phone, tablet, laptop, etc.) for the iClicker component

## Non-programmable scientific calculator

- Any basic scientific calculator may be used, but it cannot be a programmable calculator that can store notes, formulas, or diagrams. The calculator must be a standalone calculator – that is, it must be an actual calculator and not, for example, a phone or computer. We recommend that you bring a second calculator to assessments in case your main calculator malfunctions. You will not be allowed to share calculators during assessments.



## Course Personnel, Lecture Info, and Contact Info

Throughout the term, three course instructors, a lab coordinator, an undergraduate assistant, a counselling assistant, and many teaching assistants support your learning.

<b>Lecture Locations/Times and Instructors</b>	Lars Konermann	MWF 8:30–9:20 am	NSC 145
	Felix Lee*	MWF 9:30–10:20 am	NSC 145
*course coordinator	Felix Lee*	MWF 12:30–1:20 pm	NSC 145
	Christina Booker	MWF 1:30–2:20 pm	NSC 145
<b>Lab Coordinator</b>	M. Naeem Shahid	MSA 1235	
<b>Undergraduate Assistant</b>	Evan Branidis	CHB 119	
<b>Counselling Assistant</b>	Diana Ali	CHB 119	

To contact any team member, please submit a service ticket at:

<https://help.sci.uwo.ca/servicedesk/customer/portal/14>

Direct emails to course personnel will not be accepted.

The ticketing system should only be used for administrative purposes. Tickets are triaged during regular business hours and answered in the order of importance. To allow the Chem 1301A team to respond to administrative concerns as quickly as possible, please do not send tickets containing:

- Questions about course material or on how to do a particular problem in the workbook. Such questions should be taken to the Resource Room or posted on the OWL forum.
- Questions that can be answered based on the information found in this course outline.
- Requests for grade increases, extra assignments, make-up labs, or similar.

Constructive feedback is valuable to us. Please do not hesitate to contact us if you have any comments or feedback on any aspect of Chem 1301A. We are always trying to improve the course so that we can improve your experience!

# Learning Support and Resources

## OWL Forums

The forums on OWL provide an engaging venue for students to collaboratively discuss course concepts. Course TAs will be participating in the discussions.

## Chemistry Resource Room

The Resource Room, located in Materials Science Addition 1203, offers you a comfortable and informal environment to ask questions related to lecture material and obtain assistance on practice problems. Group work and peer-to-peer support are strongly encouraged.

During scheduled hours, which will be posted on OWL, the Resource Room will be staffed by a highly qualified teaching assistant. Virtual (online) sessions will also be available.

## Instructors' Student Hours

Course instructors have student hours (office hours) that can be scheduled by appointment through the ticketing system. Each course instructor supports many students, so please note that these hours are set aside for concerns (e.g. learning strategies, personal matters, etc.) that cannot be addressed through the OWL forums or the Resource Room. That way, if you have such concerns, you can be assured that you will have someone to talk to!

## Learning Development & Success

Learning-skills professionals at LDS (<https://learning.uwo.ca/>) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling. LDS also runs a Peer Assisted Learning Centre.

## Tutors

Private, third-party review or tutor services are not affiliated with, or endorsed by Western. As such, the university cannot be responsible for any of the content they provide, even if the content causes you to answer exam questions incorrectly. Because of liability reasons, your instructors are not permitted to suggest or recommend any specific tutors.

Students should realize that they may not hire tutors who are Chem 1301A teaching assistants, even if they are not from your own lab section. This is a serious legal matter pertaining to conflict of interest.

## Laboratory Information

### Experiments, Schedule, and Location

In Chem 1301A, you will partake in four exciting laboratory sessions:

1. Introduction to Laboratory Practices
2. Synthesis of a Coordination Compound
3. Investigating the Properties of Carbonates
4. Identification of Ions by Qualitative Analysis

Although your timetable on Student Centre or Draft My Schedule will show that you have a lab every week throughout the term, only four of those weeks will be used. There are no formal course activities (e.g. tutorials) during the non-lab weeks.

During which four weeks will you have labs? On the week of September 18, your own personalized schedule will be posted on OWL under *PostEm*, and that is the lab schedule you must follow (not your classmate's schedule, not the schedule for another course, etc.). Your first lab will be on September 22 or later. (If you would like to know your lab schedule earlier, please go to OWL *Course Info*, where a lab schedule for all lab sections will be available.)

Your Chem 1301A labs will be held in one of these six locations:

- Materials Science Addition 1220 zone A, B, C, or D
- Materials Science Addition 1205 (also known as zone E)
- Chemistry Building 110

The location where you will be performing your labs will be posted on OWL together with your lab schedule. **It will not be on your timetable on Student Centre or Draft My Schedule.**

### Lateness Policy

Any student who arrives after the doors to the lab have closed, when the "TA talk" begins, is considered to be late and will not be permitted to do the experiment. Late students will be assigned a mark of zero for the entire experiment. It may be possible to replace the mark of zero by writing a "lab make-up quiz" (see later).

### Safety and Dress Code

Western is committed to workplace health and safety, and has strict safety regulations. Lab TAs and staff will remove students who, in their opinion, do not meet the safety requirements or are not prepared, as described below. These students, and those who arrive late, will receive a zero for the entire experiment, and no credit will be given for the prelab exercise. It may be possible to replace the mark of zero by writing a "lab make-up quiz" (see later).



Safety glasses or goggles must be worn whenever you are in the laboratory. Students who wear prescription glasses must wear appropriate safety glasses or goggles over them. If you wear contact lenses, you must inform the lab TA. **Safety glasses are not available for rent.**

With respect to clothing, Western mandates “shoulder-to-toe” coverage. Details are found in the lab manual. **Shoes, socks, pants, or lab coats are not available for rent from Chemistry.**

Everyone must be wearing a buttoned-up lab coat at all times in the laboratory.

Everyone must wear ankle-length pants, socks that cover the ankle, and shoes that cover the whole foot (top, sides, and back) without any “cutout holes.” Shorts, sandals, and capris are among the items of clothing that are not acceptable. No skin may show at the ankles even when you are seated. Pants with rips or tears, or leggings with mesh panels, are not acceptable.

## Preparation

Before coming to the first experiment, read the Safety Regulations, Introduction, and Significant Figures sections of the lab manual; read the Lab Practices Experiment; view the relevant materials on OWL; and complete the Safety Contract on Achieve. **Bring your lab manual and calculator. Proper attire, including safety glasses and lab coat, is required.**

Prelab exercises must be completed online on Achieve before you arrive. You will be required to present proof of prelab completion on your laptop, tablet, or phone before entering the lab. Access to the prelab exercises on Achieve will be available starting at 9 am on **September 20, October 8, October 23, and November 13**, for each of the four labs, respectively.

## Lab Submissions

Each lab submission has three parts:

1. A prelab exercise that is completed on Achieve prior to your lab session.
2. A *Submit-in-the-Lab Sheet* that is handed in to lab TA at the end of the lab session.
3. A *Smart Worksheet* that is completed on Achieve, which, for labs 1 through 4, are due on **October 13, October 27, November 17, and December 1, by 11:55 pm**, respectively. Of course, you can submit your smart worksheet before the deadline!

Please note that only one submission attempt is possible for each lab by the due date. Second-attempt requests will not be granted without academic consideration.

Obviously, you can only submit a smart worksheet if you had attended the lab session. Submitting one without attending a lab is considered a fraudulent activity that will be investigated in accordance with Western’s policy on scholastic offences.

Please view OWL PostEm during the week of September 18 for a personalized summary of all of the dates related to your labs.

## Team-Based Problem-Solving Modules

Chem 1301A features team-based activities to help you refine your collaboration and problem-solving skills. Throughout the term, your team will complete modules (accessed through OWL) that contain the team-based exercises from your workbook. You are welcome to form your own team – the recommended size is 3 students – or complete the survey on OWL and let us assign you to a team of students from your lecture section.

Your team will obtain the most benefit from these modules by completing them through constructive debate and discussion. Although there are no marks associated with these modules, completing them in a timely manner will help your team learn course concepts and prepare for assessments.

## Evaluation

### Components

Your overall course grade out of 100 will automatically be the *higher* of grades calculated by the two methods shown below using the respective component weights.

Component	Notes	Method	Method
		1	2
Diagnostic Quiz	Held in class on Wednesday, Sept. 13, and based on high-school chemistry. As long as you complete the quiz, you will receive one mark regardless of your actual score. No studying is required for this quiz.	1	same
OWL assignment on administrative matters	Due Sunday, Sept. 17 at 11:55 pm. This activity will help you become familiar with the course and with Western. As long as you obtain at least 90%, you will receive one mark regardless of your actual score. You have five (5) attempts to obtain 90%.	1	same
iClicker	Marked on participation only. As long as you answer at least 50% of the questions, you will receive the full participation mark.	2	same
Laboratory	Four experiments (4.00 each)	16	same
October Quiz	Sunday, October 1, 3:00–4:00 pm	7	same
Midterm Test	Saturday, October 28, 7:30–9:30 pm	31	16
Final Exam	Scheduled by the Registrar, 3.00 hours	42	57

## Requirements for Passing Course

To receive a passing grade for Chem 1301A, you must fulfill all three of these conditions:

1. Obtain an overall grade of at least 50%.
2. Obtain at least 50% (8.00 out of 16) on the laboratory component. This mark is calculated from all four experiments. A missed experiment is assigned a mark of zero unless the mark has been replaced by the mark obtained on a lab make-up quiz (see section on Missed Course Components).
3. Miss no more than two experiments, even if the marks for the missed experiments are replaced by the marks on the make-up quizzes. That is, you must do at least two labs.

Students who fail to meet requirement #2 or #3 will receive a course grade no greater than 40%, even if the calculated course grade is higher.

## Scantron-Marked Assessments

The Diagnostic Quiz, October Quiz, Midterm Test, and Final Exam are marked using Scantron sheets. You are responsible for filling out the Scantrons correctly. If there is a discrepancy between the mark you had received and what you thought you should have received, then you either bubbled in your Scantron incorrectly and/or did not bubble in the answer you thought you had bubbled in.

If you still wish to view your Scantron, download a Scantron request form from OWL and submit it through the ticketing system no later than two weeks after the release of your mark.

## iClicker

In order to receive credit for the iClicker component, you must:

- Create a free iClicker account using your **Western email**. Please see instructions at <https://wts.uwo.ca/iclicker/> and on OWL. Add your section of Chem 1301A to your account. If you already have an iClicker account, please go into the settings and verify that it uses your Western email address.
- Attend, and answer iClicker questions in, the lecture section in which you are registered. Questions answered in the incorrect lecture section will not count towards the total number of questions that you answer.
- Ensure that your web-enabled device is working properly. If it is not working, try refreshing the page or restarting the app. It is your responsibility to ensure that your device is working properly. Contact Western Technology Services if you require assistance.

Your Western email ends in  
@uwo.ca.

Using any other email will  
result in mark of zero on the  
iClicker component.

## Equal Opportunity and Evaluation Policy

We are here to help you attain your goals. We want you to do well in the course. We were, at one time, students ourselves, so we understand the importance of course grades and the hard work that you will invest into this course.

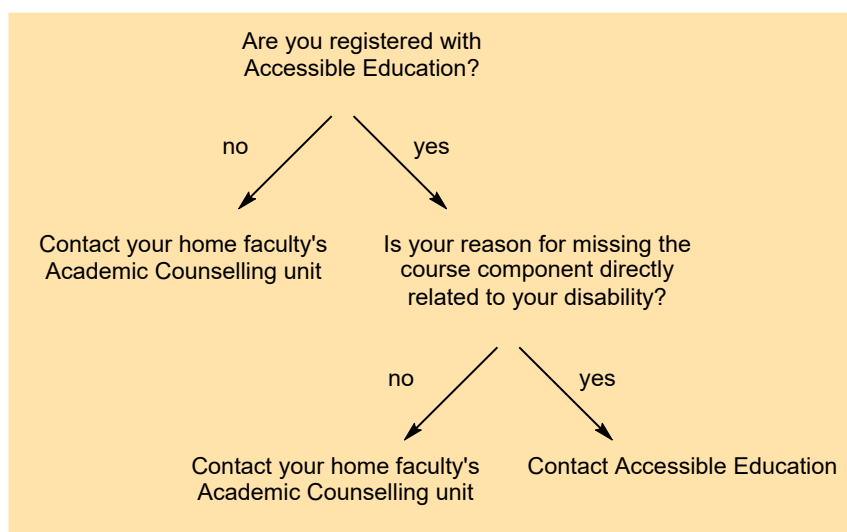
Most importantly, we also have to be fair. The university is committed to academic integrity and has high ethical and moral standards. All students will be treated equally and evaluated using the criteria presented in this course outline and their respective weights. The evaluation criteria are based strictly on actual achievement, not on effort or how hard the student tried. Claims of an excellent academic history, of attendance in the course components, or of personal issues (family, relationship, financial, etc.) cannot be used to justify a higher grade in the course because they are not criteria for evaluation. There is no extra work available for extra credit. We do not offer any extra assignments, essays, experiments, or other work of any kind to any student.

The requirement for a higher grade in order to, for example, maintain a scholarship, enter a program, or obtain a higher GPA for various reasons, is not a justifiable reason for increasing your grade. If we increased or “bumped” your grade (*i.e.* gave you a grade that you did not legitimately earn), it would be unfair to the other students and also a great disservice to the scholarships and programs who are evaluating all students on the basis of their grades. Please do not ask us for a grade increase.



## Student Absences and Missed Course Components

Students who experience an extenuating circumstance (such as illness or injury) sufficiently significant to temporarily render them unable to meet academic requirements must submit a request for academic consideration, unless otherwise specified. There are two ways to request academic consideration:



- For students who are registered with Accessible Education, and whose reason for missing a course component is related to a disability that is on file, please contact Accessible Education. They will then contact us to confirm the course component that you have missed. There is no need to contact the Academic Counselling unit of your home faculty or affiliated college.
- For students who are not registered with Accessible Education, or who are registered with Accessible Education but whose reason for missing the course component is not related to the disability on file, requests for academic consideration must be made through the Academic Counselling unit or Dean's Office of your home faculty or affiliated college regardless of the circumstances or the value of the missed work.

If you are a Science student, the Academic Counselling unit of the Faculty of Science is located in NCB 280, and can be contacted at 519-661-3040 or through the ticketing system on their website: <https://www.uwo.ca/sci/counselling/>

Students should note that individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds, or for other reasons. **All documentation required for absences must be submitted to the Academic Counselling unit of your home faculty or affiliated college, or to Accessible Education where appropriate.**

## Missed Diagnostic Quiz or OWL Assignment

**Step 1** There are no make-ups available. A missed Diagnostic Quiz or OWL Assignment will result in a mark of zero. However, if extenuating circumstances apply, simply contact us using the ticketing system within 5 days of the missed activity to explain your situation.

**What happens?** After we review your ticket, you will be granted the participation mark.

## Missed Lectures (iClicker Questions)

**Step 1** We understand that you will not be able to attend class from time to time. The participation-based iClicker marking scheme was designed to account for the occasional missed class or technical difficulty. Therefore, iClicker marks will not be adjusted for those reasons.

**What happens?** If you are unable to answer at least 50% of the iClicker questions, the value of the iClicker component (2) will automatically be shifted to the Final Exam. As this is done automatically, no action on your end is necessary.

## Missed Lab Session

There are no make-up labs, and it is not possible to reschedule them. The procedure to follow depends on whether it is the first or second time you have missed a lab.

### First missed lab

**Step 1** Submit a message to the ticketing system to let us know you missed a lab. **There is no need to obtain academic consideration.**

**What happens?** At the end of the term (anticipated to be on Friday, December 8), you will be able to write a make-up quiz pertaining to the missed experiment. The mark you receive on the quiz will replace the mark of zero on the missed experiment. If you do not submit a ticket or write the make-up quiz, the mark of zero for the missed lab will remain.

Tests and exams will contain questions related to the theoretical aspects of the experiments. You are still responsible for the material pertaining to the missed labs.

### Second missed lab

**Step 1** Obtain academic consideration.

**Anything else?** Nope! After obtaining academic consideration, please **do not** contact your instructor or lab coordinator even though you may be asked to do so. We will be automatically notified of the academic consideration.

**What happens?** At the end of the term (anticipated to be on Friday, December 8), you will be able to write a make-up quiz pertaining to the missed experiment. The mark you receive on the quiz will replace the mark of zero on the missed experiment. You will therefore be writing two quizzes, one for each of the missed labs.

If academic consideration was not obtained, the mark for the missed lab will remain at zero.

Tests and exams will contain questions related to the theoretical aspects of the experiments. You are still responsible for the material pertaining to the missed labs.

## Attended Lab but Missed Submission Deadline

- Step 1** Obtain academic consideration.
- Step 2** Contact us using the ticketing system and attach any proof of academic consideration that you may have received. It is your responsibility to submit a ticket requesting this extension in a timely manner.
- What happens?** The deadline for your lab report will be extended, and the lab report will be marked without penalty. You must submit your report by your extended due date.
- Late lab reports will not be accepted without academic consideration.

## Missed October Quiz

- Step 1** Obtain academic consideration.
- Anything else?** Nope! After obtaining academic consideration, please **do not** contact your instructor or lab coordinator even though you may be asked to do so. We will be automatically notified of the academic consideration.
- What happens?** There is no make-up for the October Quiz. The weight of the quiz will be automatically be shifted to the Midterm Test.

## Missed Midterm Test

- Step 1** Obtain academic consideration.
- Anything else?** Nope! After obtaining academic consideration, please **do not** contact your instructor or lab coordinator even though you may be asked to do so. We will be automatically notified of the academic consideration.
- What happens?** You will be able to write the make-up on **Saturday, November 11, 6:30–8:30 pm.**
- If you are unable to write the make-up Midterm Test, you will need to obtain academic consideration again. The weight of the Midterm Test will then be shifted to the Final Exam.

## Missed Final Exam or Multiple Exam Situation

<b>Step 1</b>	Obtain academic consideration.
<b>Anything else?</b>	Nope! Please <b>do not</b> contact your instructor or submit a ticket, even though your academic consideration may state that you must do so. We will be automatically notified of the academic consideration.
<b>What happens?</b>	<p>You will be able to write the Special Exam (the name given to a make-up Final Exam) in January of 2024.</p> <p>If you miss the Special Exam, you will need to obtain academic consideration again. If it is granted, the date of the next Special Exam will normally be the scheduled date for the Final Exam the next time this course is offered. The maximum course load for the term in which the Special Exam is granted will be reduced accordingly. Please see the section on Special Exams in the Academic Calendar for details: <a href="https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&amp;PolicyCategoryID=5&amp;SelectedCalendar=Live&amp;ArchiveID=#Page_65">https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&amp;PolicyCategoryID=5&amp;SelectedCalendar=Live&amp;ArchiveID=#Page_65</a></p>
<b>Good to know!</b>	<p>You may also be able to write the Special Exam if you are in a “Multiple Exam Situation.”</p> <p><a href="https://registrar.uwo.ca/academics/examinations/exam_conflicts.html">https://registrar.uwo.ca/academics/examinations/exam_conflicts.html</a></p>



## How to Attain Your Goals in Chem 1301A

You will be more successful in the course if you recognize the following:

1. Like many sciences, chemistry is a cumulative subject. Because one topic acts as a foundation for the next, it is essential to stay up-to-date by studying the material and doing practice problems.
2. Learn *why* something is the way it is, not just *what* it is. Recognize that memorization is not the same as learning and understanding. When working on questions from the workbook, focus on the concepts, the thought process, how to arrive at the answer, and why the answer is the answer.
3. Don't just come to class – get something out of coming to class. Be attentive. Participate. Think. Write down important points, but avoid spending so much time writing that you're not thinking.
4. Labs are intended to be an enjoyable experience. Prepare for each lab in advance by reading the lab manual and doing the prelab exercise. Learn the theory and the concepts behind the experiment.
5. We're here to help! If you have questions about the course material, ask them well in advance. Ask questions at the Resource Room or on the OWL forum as soon as they arise.
6. To assist in learning and understanding, you are encouraged to study in small groups, where you can challenge yourself by defending your work and ideas and also challenge others.



## Academic Policies and Legalities

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy, [https://www.uwo.ca/univsec/pdf/policies\\_procedures/section1/mapp113.pdf](https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf), the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

It is university policy that a regularly scheduled class (lecture, lab, or tutorial) takes precedence over tests and exams. Therefore, if another course schedules a test or exam that takes place during your chemistry lecture or lab, the instructor for that course must accommodate you.

Aside from a non-programmable scientific calculator, no other electronic devices (phones, tablets, etc.) may be in your possession during tests and exams, even for timekeeping purposes. They may not be at your test/exam desk or in your pocket. Any student found in possession of these prohibited devices will receive a mark of zero on the test or exam.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at this website: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf)

Audience response systems ("clickers") will be used to provide immediate feedback on your understanding of course concepts. You must use your own clicker account and may not submit responses for any other student. The data collected using the devices will not be used for research purposes without your consent.

Computer-marked, multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

Although the intent is for this course to be delivered in person, should any university-declared emergency require some or all of the course to be delivered online, either synchronously or asynchronously, the course will adapt accordingly. The grading scheme will not change. Any assessments affected will be conducted online as determined by the course instructor.

The October Quiz, Midterm Test, and Final Exam are in-person assessments. In the event that one or more of these assessments need to be conducted online due any university-declared emergency, they may be conducted using a remote proctoring service. By taking this course, you are consenting to the use of this software and acknowledge that you will be required to provide **personal information** (including some biometric data) and the session will be **recorded**. Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's Remote Proctoring website at: <https://remoteproctoring.uwo.ca>.

## Accessibility and Religious Accommodation

Students with disabilities are encouraged to contact Accessible Education ([http://academicsupport.uwo.ca/accessible\\_education/index.html](http://academicsupport.uwo.ca/accessible_education/index.html)), which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The university's policy on Accommodation for Students with Disabilities can be found here: [https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/Academic%20Accommodation\\_disabilities.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic%20Accommodation_disabilities.pdf)

When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request accommodation for their absence in writing at least two weeks prior to the holiday to the Academic Counselling unit of their home faculty or affiliated college. Please consult University's list of recognized religious holidays (updated annually) at <https://multiculturalcalendar.com/ecal/index.php?s=c-univwo>.

## Additional Support Services

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: <https://www.uwo.ca/sci/counselling/>.

Students who are in emotional/mental distress should refer to Mental Health@Western (<https://www.uwo.ca/health>) for a list of options about how to obtain help.

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at [https://www.uwo.ca/health/student\\_support/survivor\\_support/get-help.html](https://www.uwo.ca/health/student_support/survivor_support/get-help.html). To connect with a case manager or set up an appointment, please contact [support@uwo.ca](mailto:support@uwo.ca).

Western University is committed to a thriving campus as we deliver our courses in the mixed model of both virtual and face-to-face formats. We encourage you to check out the Digital Student Experience website to manage your academics and well-being: <https://www.uwo.ca/se/digital>.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.

This course is supported by the Science Student Donation Fund. If you are a BSc or BMSc student registered in the Faculty of Science or Schulich School of Medicine and Dentistry, you pay the Science Student Donation Fee. This fee contributes to the Science Student Donation Fund, which is administered by the Science Students' Council (SSC). One or more grants from the Fund have allowed for the purchase of equipment integral to teaching this course. You may opt out of the Fee by the end of September of each academic year by completing paperwork in the Faculty of Science's Academic Counselling Office. For further information on the process of awarding grants from the Fund or how these grants have benefitted undergraduate education in this course, consult the chair of the department or email the Science Students' Council at [ssc@uwo.ca](mailto:ssc@uwo.ca).