Chemistry 1302A • Fall 2024-25 Discovering Chemical Energetics

Welcome to Chem 1302A!

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bases, electrochemistry, and chemical kinetics.

Prerequisite Grade 12U Chemist (SCH4U) r equivalent. Grade 12U Advanced Functions (MHF4U) or Calculus & Vectors (MCV4U), or Mathematics 0110A/B or 0105A/B, is strongly recommended.

Antirequisitess: The for@leem1024A/B

Extra Information: 3 lecture hours, 1.5 laboratory hours (3 hours every other week).

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

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 attituent to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

Key Dates

Datesin 2024	Event
Friday Septembel6	Coursebegins. Attend your first Chem 1302class!
Friday September 3	Last day to add a seconterm half courseor make changes to lab section enrolment.
Friday,September 20	OWL IntroActivity andOWLPreTest due by 1155pm. Firstdesignated class foream-based problem-solving. Lab location and personalized Achieve lab site link available on OWL.Sign up on Achieve and complete initial online activities prior to your first lab.
Monday, September 2	First week of laboratory rotations.
Monday, September 30	National Day for Truth and Reconciliation, no classroom instruction
Saturday,October 5	Midterm Test#12:00-4:00 pm (Locations TBAn OWI).
Monday, October 14	Thanksgiving and beginning of Fall Reading Week (@201)12

Friday November15, 79 pm Midterm Test #2(LocationsTime TF2.9 (A.2 0.4n-0.9 3 0 TO32.500)-1C.5007)

Describe the importance of chemistry in everyday life and the interdisciplinary nature of chemistry.

Use critical thinking skills to explain, make connections between and apply chemical principles, laws, and theories pertaining to ideal gases, thermodynamics, chemical equilibria, electrochemistry, and chemical kinetics.

Evaluate and assess chemical data and explain how they relate to chemical theories/laws.

Apply chemical theories or laws to solve a variety of newqualitative and quantitative chemical problems.

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Chem 1302 • 202425 Course Outline 8

- x Questions that can be answered based on the information found in this course our the course outline first.
- x Questions about course material. Such questions should be taken to the Resource Room or posted on the OWL forum.
- x Requests for grade increases, extra assignments, makebs, etc. Refer to the section below entitled Equal Opportunity and Evaluation Policy

Constructive feedback is valuable to us. Please contact you have any comments or feedback on Chem 1302A

Laboratory Information

Access, Schedule, and Location

Our course has partnered with Macmillar the lab component. Macmillan's Achieptatform will be used for lab preparation and submissions will be provided with a personalized (via OWL) by September 20 to sign up on Achieve ou must sign up using youpersonalized link, Western email address uwo.ca email address and access code in your lab manufactore your first lab.

The laboratory section which you are registered is the onlypersonsection that you may attend. Your lab section number (along withdayof the week and time or your lab)can be found on yourcurrent timetable on Student Centre Refer to the schedule below determine which weeks your experimens will occur, based on your lab section achourse has its own lab schedule, so do not assume that your chemistry lab schedule will follow another is sourced.

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Foreachexperiment
You are encouraged to submit your lab report components well in advance of the due date.

Western mandates "shouldeto-toe" coverage in a lab. Details are found in the lab manual. Everyone must wear a buttonedp lab coat at all times in the laborator veryone must wear anklelength pants, socks that cover the ankled shoes that cover the whole foot (top, sides, and back) without anymesh areas of cutout holes". Shorts, sandals crocs, 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 gienic reasons shoes, socks, pants, lab coats, and safety glasses are validable for rent.

Lateness Policy

Any student who arrives after the doors to the lab have closed, when the "TA talk" begins, is considered 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 makeup quiz (see later).

Evaluation

Components

Your overall course grade, out of 100, would over 1 attica (by) 80 € 6th 4 (₱,)6m) - (₹Tric (),) 900 € a ₹ 20 (1) 22.6t (tlad) 5(0)) 122 € T. Q 3(1) 11(7)

Essential Learning Requirements

To receive a passing grafter Chem 1302, you must fulfill all three of these conditions:

- 1. Obtain a minimum overall course grade of 50%.
- 2. Obtain a minimum of 50% on the laboratory component (8.00/16.00). This mark is

Chapter 1	September 6	September20	September23
Chapter 2	September 30	October4	October7
Chapter 3A	October 21	October 25	October28
Chapter 3B	November 4		

- 1. Study the material and do practice problems at least twice each where many sciences, chemistry is a cumulative subject, and one topic acts as a foundation for the next, so it is essential to stray update with the material.
- 2. Work with your teamto complete the teambased problemsolving modulesDiscusthe questions, clarify concepts, and explainour problemsolving approach with one another.
- 3. Learnwhy something is the way it is, not just whats. Please realize 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.
- 4. Don't just attend lecture get something out of the experience! Think Engage Write down key points. Sketchout connections. Record any questions you have fallow up on those questions.
- 5. Visit the Resource Room r post your questions to the WLD iscussion Ask these questions as they arise rather than waiting until just before an assessment.
- 6. Labs are intended to be an enjoyable experience. Preformeach lab in advance by reading the lab manual and doing the prelab exercist inkandaskabout the theory and the concepts behind the experiment. Be mindful of the details. Chaith your TA if you have any questions or ideas.
- 7. Completeall the practice problems in the workbook for each topic. Work through the previous year's tests and exams under simulated test conditions to evaluate your studying, knowledge, and application abilities. Avoid just checking the answertet yourself think and try different approaches before lon or 37.185(i) -3.2 (d) -0.8 (H1(a) 7.6 (s) 94.3 (.)]4 T3 0.228182 T(i18262.56 4021 pr) 1 m3.2 (d) (e4 Tw 4.163 (d) 1 m3.2 (d)

If a studentmistakenly submits their one allowed Academic Consideration request without supporting documentation for the assessments list above or those in the ection below that do not require academic consideration he request cannot be recalled and reapplied his privilege is for feited. In Chem 1302A, selected course components have include xibility. For these course components, academic consideration requests will be denied:

- x OWL Intro Activity
- x OWL PreTest
- x iClicker
- x Team Based Problem Solving Modules
- x Midterm Tests (if Test #1 OR Test #2 is missed)

Students are expected to submit their assignments by the deadlines listed in the course outline and attend the midterm testsand final exam. Should extenuating circumstances apply, refer to the following table for applicable policieand actions

		Policies & Actions	
Missed Course Component	= Obtain academic consideration	= Submit a ticket to chemistry course support	= Submit the Lab Make-Up Survey

t • š Œ v ®is committed to reducing incidents of gender v • Æ μ o À] } o v ®and providing compassionate support to anyone who has gone through these traumatic everythe have experienced sexual or gendebased 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/gehelp.html X ® d } v v š Á]šZ u v P Œ } Œ • 𠵉 v ‰ % }] v š upportš@ulw‰.ca • } v š š ®

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

Additional studentrun 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 ScienceStudent 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 each academic year by completing the online form hosted the Faculty of Science Academic Counselling besite. For further information on the process of awarding grants from the Fund or how these grants have benefitted undergraduate education in the course, consult the chair of the department or email the Science Students' Council@two.ca