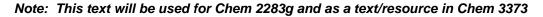
Chemistry 2273A 2024: Organic Chemistry I: STRUCTURE AND REACTIVITY

Instructor:			
Class Times			
Office Hours:			
Course Web-Page:	https://westernu.brightspace.	com	
Course E-mail:			

When sending email to this account use "2273" to start the subject line. Emails from registered students emanating from @uwo.ca accounts will be answered as soon as possible, in class, or something will be posted on OWL.

Required Materials, Text and other Purchases: Available in the bookstore

- TEXT: "Organic Chemistry" by David Klein 4th Edition Binder Ready Version with Student Study Guide (e-version) and WileyPLUS LMS Card ISBN 9781119832614 \$158.05
- This is a binder ready version with electronic resources that also gives access to the electronic version of the text.



Chemistry 2273a will cover approximately chapters 1-7 and smattering from a couple of other chapters. Chemistry 2283g covers material from the rest of the text.

- Recommended: Darling Molecular Model Set
- Hayden-McNeil Student Lab Notebook. How best to use this book is discussed in the Laboratory Manual (see below). This book may be shared with other lab courses- like 2283G.
- Safety Glasses with side-panels and laboratory coat. (required, but you should already have them!)
- Fall 2024 Laboratory Manual. To be purchased separately.

Evaluation: The final grade for the course will be determined by the following:

Laboratory Mark (6 In-person Labs (#1, 2A, 2B, 3A, 3B, 4)) **15%**

Term Test of Knowledge 1, Saturday October 26th 12 – 1:30pm 20%

Term Test of Knowledge 2, Saturday November 16th 12 – 1:30pm 20%

Final Test of Knowledge, *cumulative*; 3 hours, time and location set by Registrar No electronic devices besides calculators will be allowed on tests or exams.

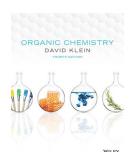
You must: 1) achieve a passing grade in the labs (7.5/15)

- 2) complete at least 4 of 6 laboratory sections, *whether excused or not*, (6 In-person Labs (#1, 2A, 2B, 3A, 3B, 4) including reports).
- achieve a grade of 42.5/85 on the sum total of three Test of Knowledge assessments to pass the course.

If any of these conditions is NOT met a final grade of 40% (or lower) will be assigned.

Accessibility Statement

Please contact the instructor if you require information in an alternate format, or if any other arrangements are needed to make this class accessible to you. Advance notice of planned interruptions will be made in class and by email to @uwo.ca accounts. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 x 82147 for any specific guestion regarding an accommodation.







Approximate Lecture/Tests of Knowledge Topics Outline:

Material to be included on Term Test of Knowledge 1: Chapters 1-4

Material to be included on Term test of Knowledge 2: All of the above + Chapters 5 and parts of 6, 7

Material to be included on the Final Test of Knowledge: Chapters 1 - 7

Learning Outcomes. Develop an understanding of organic chemical structure and stereochemistry. Relate the structure of organic compounds to stability, acidity, and basicity. Begin to understand how to show electron movement and arrow pushing to predict the reactions of organic compounds by looking at nucleophilic and elimination reactions. In the laboratory you will learn techniques for chemical separation and purification, how to set up and monitor a simple chemical reaction chemically. You will develop the skills to keep proper records in a lab book.

Laboratory Schedule

All Labs are carried out in the Chemistry Building Room ChB 074 (lower ground floor). You <u>must</u> attend the laboratory section to which you are registered. If you miss a laboratory, you must see your TA or Prof. Wisner for alternative arrangements as soon as possible after missing the lab.

Laboratory Director:	
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Laboratory Teaching Assistants (TAs) for Chem 2273



To reach your TA by email, please indicate 2273 in the subject line.

NOTE: If you go looking for your TA, you are not permitted to enter research labs unless you are properly attired and are wearing safety glasses. These are working labs and with hazardous environments, use caution!

Week of	Experiment
Sept. 9	Exp. 1: Introduction to the Laboratory
Sept. 16	No Lab
Sept. 23	Exp. 2, Part A: Liquid-Liquid Extraction
Sept. 30	Exp. 2, Part B: Recrystallization
Oct. 7	No Lab
Oct. 14	Fall Reading Week – No Lab
Oct. 21	Exp. 3, Part A: Thin Layer Chromatography
Oct. 28	No Lab
Nov. 4	Exp. 3, Part B: Column Chromatography
Nov. 11	No Lab
Nov. 18	Exp. 4: Alkyl Halides

All lab reports are submitted electronically.

Please use the Hayden-McNeil Organic Chemistry Laboratory Notebook for in-lab experiments.

Important Notes Regarding Your Evaluation and Your Responsibilities in this Course:

1) Prerequisite: A Mandatory Notice from the Registrar:

"Unless you have either the prerequisites for this course or written special permission from your Dean to enroll in it, you will 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."

Prerequisites: Chem 1301A and 1302B (or equivalent) with a minimum mark of 60%.

Antirequisite(s): Chem 2213A/B

2) General Information About Missed Coursework

Students must familiarize themselves with the *University Policy on Academic Consideration – Undergraduate Students in First Entry Programs* posted on the Academic Calendar: https://www.uwo.ca/univsec/pdf/academic policies/appeals/academic consideration Sep24.pdf,

This policy does not apply to requests for Academic Consideration submitted for **attempted or completed work**, whether online or in person.

The policy also does not apply to students experiencing longer-term impacts on their academic responsibilities. These students should consult <u>Accessible Education</u>.

For procedures on how to submit Academic Consideration requests, please see the information posted on the Office of the Registrar's webpage:

https://registrar.uwo.ca/academics/academic_considerations/

All requests for Academic Consideration must be made within 48 hours after the assessment date or submission deadline.

All Academic Consideration requests must include supporting documentation; however, recognizing that formal documentation may not be available in some extenuating circumstances, the policy allows students to make <u>one</u> Academic Consideration request **without supporting documentation** in this course. However, the following assessments are excluded from this, and therefore always require formal supporting documentation:

- Examinations scheduled during official examination periods (i.e. Final Test of Knowledge)
- Midterm Tests of Knowledge

When a student <u>mistakenly</u> submits their <u>one</u> allowed Academic Consideration request **without supporting documentation** for the assessments listed above or those in the **Coursework with Assessment Flexibility** section below, the request cannot be recalled and reapplied. This privilege is forfeited.

3) Policy on Missed Midterm Tests of Knowledge

Weighting of missed Midterm Tests of Knowledge with a valid accommodation will be transferred to the final exam. E.g 1 missed Midterm Test of Knowledge will carry forward to a final exam weighted as 65% of the final grade calculation. 2 missed Midterm Tests of Knowledge will result in an 85% weighted final exam toward the final grade.

4) Policy on Missed Laboratory Assessments

If a student misses a laboratory assessment and is granted academic consideration, the weight of the excused lab will be redistributed among the remaining lab assessments to arrive at the total of 15%.

Lab experiments are essential components of this course. At least 4 of the 6 lab reports must be submitted. A student who submits fewer than 4 lab reports, whether excused or not, will have to apply for a grade of incomplete (INC) at the Dean's Office and submit the missing reports the next time the course is offered. A student who submits fewer than 4 lab reports and does not have an INC will receive a course grade of not greater than 40%, even if the calculated grade is higher.

5) Policy on Laboratory Assessment Due Dates and Completions

Students are expected to submit each of the Laboratory assessments by the deadline listed. Should extenuating circumstances arise, students do not need to request Academic Consideration and they are permitted to submit their assignment up to 48 hours past the deadline without a late penalty. Assessments submitted after this period will be assigned a grade of zero and will not be counted toward the total number of laboratory assessments completed.

Students must complete 4 of 6 laboratory assessments to pass the course (see above section regarding **Evaluation**). Students who do not complete the required number of laboratory assessments but have been accommodated for the missing assessments will be given an INC and will be allowed to complete them at the next offering of the course.

- **6)** Use of electronic devices: Only basic scientific calculators are permitted on all tests and exams. All other electronic devices (cell phones, laptops, tablets, cameras, etc.) are prohibited. Students found in possession of prohibited devices will receive a mark of ZERO for the entire test or exam.
- 7) Plagiarism and Cheating: Chemistry 2273a has a ZERO tolerance for plagiarism and cheating. Cases of cheating or plagiarism may result in a zero grade for Chemistry 2273a and the individual will be reported to the Chair and the Dean who may administer further sanctions.

Plagiarism is a major academic offence. Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

Students must write their laboratory reports and tests on their own and in their own words and without collaboration unless explicitly allowed by the Instructor. Whenever students take an idea, or a passage from another author or student, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations.

Whenever possible, tests and exams may be checked with software that checks for unusual coincidences in answer patterns that may indicate cheating.

8) Attendance: Students are expected to attend course lectures and participation in the class is considered to be an integral and essential component of the course.

A complete listing of your Academic rights and responsibilities may be found on the Registrar's and associated websites, starting at:

http://www.westerncalendar.uwo.ca/

General Information

Students who are in emotional/mental distress should refer to Mental Health@Western (http://www.health.uwo.ca/mental_health) for a complete list of options about how to obtain help. 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 the online form linked from the Faculty of Science's Academic Counselling site. 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.

Support Services

Please visit the Science & Basic Medical Sciences Academic Advising 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://uwo.ca/health/) for a complete 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.

To connect with a case manager or set up an appointment, please contact support@uwo.ca.

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Accessible Education at http://academicsupport.uwo.ca/accessible_education/index.html if you have any questions regarding accommodations.

Learning-skills counsellors at Learning Development and Success (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.

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

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