

## Chemistry 3373F Course Outline

### 1. Course Information

#### Course Information

Chemistry 3373F – MWF 11:30 – 12:30 in NCB-117

Labs: Section 013 – M 1:30 – 5:30 pm  
Section 015 – M 6:00 – 10:00 pm  
Section 021 – Tu 8:30 am – 12:30 pm  
Section 023 – Tu 1:30 – 5:30 pm  
Section 025 – Tu 6:00 – 10:00 pm

**List of Prerequisites:** Chem 2273 and 2283

Unless you have either the requisites 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.

### 2. Instructor Information

Instructors	Email	Office	Phone	Office Hours
Dr. Michael A. Kerr	makerr@uwo.ca	ChB 219	X86354	By appt.
Cameron Littlejohn TA	clittl32@uwo.ca			
Matthew Pamenter TA	mpamente@uwo.ca			
Alexander Stockli TA	astockli@uwo.ca			

Office hours will be held by appointment via Zoom. Please e-mail me to arrange a time.

### 3. Course Syllabus, Schedule, Delivery Mode

An intermediate level course in organic chemistry designed to complete the core requirements in organic chemistry. The major topics include: concepts of organic synthesis, radical chemistry, the chemistry of beta-dicarbonyls, amines, heterocycles, cycloadditions and pericyclic reactions.

## Topics Covered

1. Chapter 19: Aldehydes and ketones
2. Chapter 20: Carboxylic acids and their derivatives
3. Chapter 21: Alpha carbon chemistry: Enols and enolates
4. Chapter 16: Conjugated Pi systems and pericyclic reactions
5. Chapter 22: Amines
6. Chapter 23: Introduction to organometallic compounds
7. Introduction to Heterocyclic chemistry (time permitting)

Classes begin: September 8, 2021; January 3, 2021

Reading Week: November 1–7, 2021; February 19–27, 2022

Classes end: December 8, 2021; April 5, 2022

### **Contingency plan for an in-person class pivoting to 100% online learning**

In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, all remaining course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will **not** change. Any remaining assessments will also be conducted online as determined by the course instructor.

## **4. Course Materials**

### **Text and other Purchases:**

- *Organic Chemistry* by Klein, 3<sup>rd</sup> edition
- Laboratory Manual for Chemistry 3373.
- (optional, but highly recommended) Molecular Model Set: Darling.
- Safety glasses with side panels (required if you do not already own a pair)

Students are responsible for checking the course OWL site (<http://owl.uwo.ca>) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the class.

All course material will be posted to OWL: <http://owl.uwo.ca>.

If students need assistance with the course OWL site, they can seek support on the OWL Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-661-3800 or ext. 83800.

### **Technical Requirements**

Stable internet connection, computer with working microphone and webcam. This will be necessary for Zoom office hours.

## 5. Methods of Evaluation

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

<b>Lab Mark</b>	<b>20%</b>
<b>Mid-term tests</b>	<b>2 tests at 20% each = 40%.</b> October 16 and November 13 from 2-4 pm Location TBA The exact subject material will be posted closer to the dates.
<b>Final Exam</b>	<b>40% <i>cumulative</i></b> ; 3 hours: Date set by registrar

In order to pass you need i) a mark  $\geq 50\%$ , **and** ii) 50% or greater in your laboratory mark **and** iii) a passing grade in the non-laboratory component of the course. The final exam must be written.

Note 1: If a mid-term test is missed for valid reasons, the 20% will be transferred to the final examination. Missing a test for a non-validated reason will result in a grade of zero. There are NO alternate mid-term tests.

Note 2: There are 8 laboratory sessions and 9 reports. In order to pass this course, you must attend at least 6 lab sessions and 7 reports. Missed sessions or reports must be for an approved reason (SRA or permission via the Faculty of Science counselling office. Late laboratory reports will be penalized 10% per day or any part thereof.

## 6. Student Absences

### Academic Consideration for Student Absences

Students who experience an extenuating circumstance (illness, injury or other extenuating circumstance) sufficiently significant to temporarily render them unable to meet academic requirements may submit a request for academic consideration through the following routes:

- (i) Submitting a Self-Reported Absence (SRA) form provided that the conditions for submission are met. To be eligible for a Self-Reported Absence:
  - an absence must be no more than 48 hours
  - the assessments must be worth no more than 30% of the student's final grade
  - no more than two SRAs may be submitted during the Fall/Winter term
- (ii) For medical absences, submitting a Student Medical Certificate (SMC) signed by a licensed medical or mental health practitioner to the Academic Counselling office of their Faculty of Registration.
- (iii) Submitting appropriate documentation for non-medical absences to the Academic Counselling office in their Faculty of Registration.

Note that in all cases, students are required to contact their instructors within 24 hours of the end of the period covered, unless otherwise instructed in the course outline.

Students should also 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 that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.**

For the policy on Academic Consideration for Student Absences – Undergraduate Students in First Entry Programs, see:

[https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_illness.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf)

and for the Student Medical Certificate (SMC), see:

[http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/medicalform.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).

### **Religious Accommodation**

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 course instructor and/or the Academic Counselling office of their Faculty of Registration. Please consult University's list of recognized religious holidays (updated annually) at

<https://multiculturalcalendar.com/ecal/index.php?s=c-univwo>.

### **Absences from Final Examinations**

If you miss the Final Exam, please contact the Academic Counselling office of your Faculty of Registration as soon as you are able to do so. They will assess your eligibility to write the Special Examination (the name given by the University to a makeup Final Exam).

You may also be eligible to write the Special Exam if you are in a “Multiple Exam Situation” (e.g., more than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details (under [Special Examinations](#)).

## 6. Accommodation and Accessibility

### Accommodation Policies

Students with disabilities work with Accessible Education (formerly SSD), which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The policy on Academic Accommodation for Students with Disabilities can be found at:

[https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/Academic\\_Accommodation\\_disabilities.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Accommodation_disabilities.pdf),

## 7. Academic Policies

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.

[Electronic devices of any kind are not allowed for tests and examinations in this course](#)

**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](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf).

## 8. 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/>.

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 (519) 661-2147 if you have any questions regarding accommodations.

Learning-skills counsellors at the Student Development Centre (<http://www.sdc.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.

Students who are in emotional/mental distress should refer to Mental Health@Western (<http://www.health.uwo.ca/mentalhealth>) 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](mailto:ssc@uwo.ca).