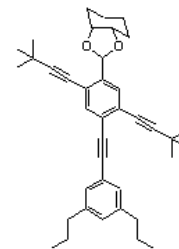


Organic Chemistry II (CHMB42) – Winter 2022 University of Toronto Scarborough



Welcome to CHMB42! Organic chemistry is my passion – it's what got me hooked on studying chemistry when I was in my second year of undergraduate studies. I know that this subject can be intimidating for some, and yes, it is going to require some hard work on your part. But, I hope to make it worth your while by exposing you to some of the exciting aspects of this diverse field and by helping you see its connections to your everyday lives.

Having said the above, *this course was never intended to be an online course*. I have had to make significant concessions to how this course is delivered, and I realize it is not optimal for everyone. I hope you will bear with me as we navigate the evolving changes together. With any luck, we will get to meet in person before the semester is through!

Instructor (Labs and Lectures):

Dr. Effie Sauer

EV554 (though I will be off campus while the course remains online)

Email: effie.sauer@utoronto.ca

Office Hours:

Mondays 10:00-11:30 am; Wednesdays 9:00-10:00 pm (evening)

Office hours are a chance to meet with me, Dr. Sauer, and ask any questions you may have about the course material – or about chemistry in general! Join using the Zoom link in Quercus. While text-based chat is possible, it is **much** easier to communicate if you have a mic and speakers set up. There is also a digital whiteboard and an option to share screens.

Lectures:

Each week, there will be a set of pre-recorded lectures to watch (asynchronous), as well as two, one-hour live lectures (synchronous) taking place via Zoom at the following times:

- Thursdays 9:10 am – 10:00 am
- Fridays 2:10 pm – 3:00 pm

The pre-recorded lectures will focus on the theory portion of the course with very little time spent on problem solving. In contrast, the live lectures will focus almost entirely on problem solving. They will be interactive sessions with lots of opportunities for students to ask and answer questions. To get the most out of the live lectures, the expectation is that students will have watched the pre-recorded lectures ahead of time. For students in the LEC60 section, the live lectures will be recorded and posted to Quercus.

Text:

We will be using Top Hat to access the digital textbook: *Organic Chemistry: Mechanistic Patterns*, 2nd Edition by William Ogilvie et al. If you already have a Top Hat account from CHMB41, go to <https://app.tophat.com/e/147538> to be taken directly to this course's digital textbook. If you are new to Top Hat, go to <https://app.tophat.com/register/student>; search for this course's digital textbook with the join code **147538** and follow the prompts.

Email Policy:

Please do not send questions about course content to Dr. Sauer by email; these should be asked during office hours OR directed to the course discussion platform, Piazza (see below). Email should be reserved for times when personal information needs to be shared (your circumstances, your grades, etc.). These emails should be sent using a *utoronto.ca* email address to avoid having your message filtered out as spam.

Discussion Board:

This course will be using Piazza for class discussion. The system is designed to get you help fast and efficiently from classmates, the TAs, and myself. Rather than emailing questions to the teaching team, I encourage you to post your questions on Piazza. You can find our class signup link at: <https://piazza.com/utoronto.ca/winter2022/chmb42h3s20221>

Tutorials:

This course has weekly, one-hour tutorials which begin the week of January 17th. Each week, the TAs will run through a selection of sample problems related to the previous weeks' lectures. See Quercus for a schedule showing what content you are responsible for each tutorial.

Labs (tentative):

Students will be required to complete either 4 or 5 labs throughout the course. The first two will take place online in January and early February; the remaining labs will hopefully take place in-person during the months of February and March. The number of in-person experiments will depend on the physical distancing requirements of the labs when we return in person. More specific details about the labs will be posted on Quercus as they become available.

The lab portion of the course is worth 20% of your final course grade, equally spread out over the total number of experiments (so if 4 experiments are completed, each will be worth 5%; if 5 experiments are completed, each will be worth 4%). In addition, another 5% of your final grade will come from lab-based questions on the final exam.

The laboratory component of CHMB42 is compulsory, and, ***in order to pass the course, you must also pass the lab component.***

Required Items for the In Person Lab

Students will be able to download a lab manual from Quercus for whatever portion of the lab runs in person; do not purchase a manual from the UTSC bookstore (lab manuals were printed, but they are not usable given the pivot to online labs for January). In addition to a printed copy of the lab manual, students will also need a hard-cover notebook, a lab coat and safety goggles. If you don't already have approved goggles and a lab coat, you may purchase these items from the UTSC bookstore.

Online WHMIS Videos and Safety Quiz:

Before arriving to the in-person lab for the first time, you are required to watch a series of WHMIS laboratory safety videos and complete an online safety quiz. These are found on your Quercus dashboard, listed as: UTSC 20221 Chemistry Lab Safety WHMIS training. Follow the instructions presented there. You must achieve a score of 80% or better on the quiz to be allowed to enter the lab. Once you have completed the quiz, print out a hard copy of your results showing your name and quiz score. **You must give this sheet to your TA as you enter the lab on your first lab day.** Showing it to the TA on your phone is not adequate; a paper copy is required. NOTE: The date on the quiz must be from this term (2022); even if you've taken the quiz in a previous semester, it must be repeated for the current semester.

Lab Skills Seminars:

To help you prepare for your labs, there will be a one-hour seminar offered the week before the start of each in-person experiment. The seminar will take place online at a date and time to be announced. For those of you who cannot make the set times, the seminars will be recorded and posted on Quercus. Please note, however, that **the seminars will not run if fewer than 15 students attend.** This is as a courtesy to your lab demonstrators who will be running the seminars, and who would appreciate not lecturing to an empty Zoom room!

Weekly Quizzes:

Each week, there will be a short online quiz based on the lecture material. These quizzes are intended to test your **basic** understanding of the lecture material before you proceed to the more in-depth problem solving needed for the assigned textbook questions, tutorial problems and exam questions. Unless otherwise announced, these quizzes will be due **Saturdays at 11:59 pm.** You have unlimited attempts for each quiz, and each one is worth 1% of your final grade. The lowest three quiz grades will be automatically dropped.

Term Tests:

There will be two, 90-minute term tests written outside of class time. The exact dates, times, locations and material to be tested will be announced as soon as the tests are scheduled by the registrar's office.

Final Examination:

There will be a 3-hour, **cumulative** exam written during the end of semester exam period. The exam will cover **both lab and lecture material.** The exact date, time and location will be announced as soon as they are available.

Course Engagement Grade:

To help keep everyone motivated in the course, there is a 2% grade for course engagement. There are four ways of earning credit towards this 2%:

- Attend at least 75% of the synchronous lectures
- Attend at least 75% of the synchronous tutorials
- Regularly post and/or answer questions on Piazza (average 2 posts/replies per week)
- Complete at least 75% of the assigned TopHat textbook questions (in-chapter practice problems)

Each of the above activities is worth 1%; pick any two to earn the full 2%.

Method of Evaluation:

Graded Work	Value
Term test 1	15%
Term test 2	19%
Laboratory	20%
Weekly quizzes	9%
Course engagement	2%
Final exam*	35%*
TOTAL	100%

**Divided into 30% lecture content and 5% lab content*

Note: To pass the course, you must meet **ALL** of the following criteria:

- 1) Earn a passing grade in the course overall (> 50%)
- 2) Earn a passing grade in the lab overall (> 50%)
- 3) Pass either the final exam, or both term tests

If you earn a passing grade in the course overall but fail to meet one or more of the criteria listed above, your final grade will be lowered to 49%.

Policy on Missed Labs and Term Tests:

If you need to miss a lab or term test for a legitimate reason, the following steps must be taken:

1. Self-declare your absence on ACORN.
2. Contact Dr. Sauer by email (effie.sauer@utoronto.ca) with the details of your absence. This should be done as soon as possible. If you have missed a lab, be sure to include your PRA number.

Once your absence has been validated, accommodations will be made for the missing grades. For missed term tests, students will be given the choice of either writing a make-up test, or moving the weight of the missed test to the final exam. For missed in-person labs, every effort will be made to schedule a make-up lab. If this is not possible (due to space or scheduling restrictions), the missed lab grades will be moved to the lab portion of the final exam.

If no explanation for your absence is provided within one week, you will receive a grade of zero for the missed lab and/or test. For labs, this zero applies to all aspects of the missed experiment (products, data sheet, notebook, quizzes, lab performance, etc.).

Policy on Missed Quizzes:

If a student misses an online quiz for any reason, the missing grade will count as one of the three lowest grades that is dropped from the final quiz grade. Because these lowest grades are automatically dropped for all students, **missed quizzes do NOT need to be brought to the attention of Dr. Sauer, nor will accommodations be made for requests to make-up a missed quiz.** Any additional missed quizzes, beyond the first three, will be given a grade of zero and will be counted in the final quiz grade.

Ancillary Fees:

The Department of Physical and Environmental Sciences at UTSC provides state-of-the-art education in chemistry. Chemistry being an experimental science makes learning in a laboratory setting critical. In order to provide the latest technology to enhance the student learning experience, UTSC will be charging ancillary fees for all chemistry courses that have a laboratory component. These fees are used to recover the cost of materials and services used during the lab and to maintain and upgrade the equipment used by students. Depending on the number of labs completed in person this term, these fees may be prorated. For more information regarding ancillary fees, students are encouraged to visit the following website: http://www.planningandbudget.utoronto.ca/Tuition_and_Ancillary_Fees_Cover/Ancillary_Fees.htm

Accessibility:

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible. I will work with you and AccessAbility Services to help you can achieve your learning goals in this course. Enquiries are confidential. The UTSC AccessAbility Services staff (located in AA142) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (416) 287-7560 or ability@utsc.utoronto.ca. Please note that their services are in high demand; you are encouraged to approach them early in the semester to ensure that any accommodation you may need will be in place in time.

Academic Integrity:

Academic integrity is one of the cornerstones of the University of Toronto. It is critically important both to maintain our community which honours the values of honesty, trust, respect, fairness and responsibility and to protect you, the students within this community, and the value of the degree towards which you are all working so diligently.

According to Section B of the University of Toronto's Code of Behaviour on Academic Matters <http://www.governingcouncil.utoronto.ca/policies/behaveac.htm> which all students are expected to know and respect, it is an offence for students to:

- To use someone else's ideas or words in their own work without acknowledging that those ideas/words are not their own with a citation and quotation marks, i.e. plagiarism.
- To include false, misleading or concocted citations in their work.
- To obtain unauthorized assistance on any assignment.
- To provide unauthorized assistance to another student. This includes showing another student completed work.
- To submit their own work for credit in more than one course without the permission of the instructor.
- To falsify or alter any documentation required by the University. This includes, but is not limited to, doctor's notes.
- To use or possess an unauthorized aid in any test or exam.

There are other offences covered under the Code, but these are by far the most common. Please respect these rules and the values which they protect. Offences against academic integrity will be dealt with according to the procedures outlined in the Code of Behaviour on Academic Matters.