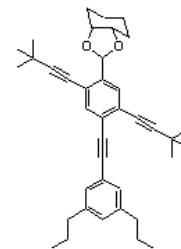


Organic Chemistry II (CHMB42) – Summer 2018 University of Toronto Scarborough



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. Organic chemistry can be an exciting subject with applications all around us. Yes, this course is going to require some hard work, but I hope to make it worth your while by exposing you to some of the exciting aspects of this diverse field and connecting the subject to your everyday lives. Before we get started, please take a few minutes to read through this document. It contains important information which will help ensure you have all the tools you'll need to succeed in this course.

Instructor (Labs and Lectures):

Dr. Effie Sauer

EV554

Email: esauer@utsc.utoronto.ca

Office Hours: Tuesdays and Fridays, 12:30-2:00 pm

Lectures (Online only)

This course has a LEC70 section only, meaning lectures will be broadcast online only; there is no option to attend a live lecture. Recorded lectures will be accessible through the course's Blackboard page. Please note that with the exception of the first introductory lecture, which has been recorded specifically for this summer course, all other **posted lectures were originally recorded during the winter semester of 2018**. As a result, there will occasionally be details discussed in the recordings that do not apply to this offering of the course (e.g. term test dates, specific lab experiments, student announcements, etc.).

Tutorials:

Students must enroll in one of the weekly tutorial sessions. Tutorials are one-hour in length, and will be led by the course instructor and a Teaching Assistant. Students will work in small groups to complete graded problem sets. At the end of some tutorials, there may also be a short quiz (completed individually). Grades from the group problem sets and individual quizzes will be combined to form the tutorial grade (10% of the final course grade). The lowest two tutorial grades will be dropped.

Labs:

Students are required to attend a four-hour lab, every other week. There are five lab experiments in total, worth a combined 20% of your final course grade (plus another 5% from lab material 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***. Your lab schedule is determined by your practical number. Odd numbered practicals (e.g. PRA001, PRA003) will start on Wednesday May 16th; even numbered practicals (e.g. PRA002, PRA004) will start Wednesday May 23rd.

Required Items for the Lab:

Students must purchase a lab manual from the UTSC bookstore before their first lab. Manuals from past semesters may not be used. In addition to 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 or a lab coat, you may purchase these items from the UTSC bookstore, or from the Environmental and Physical Sciences Student Association (EPSA). Details on these items, as well as important instructions on preparing for your first lab period can be found in the introductory pages of your lab manual. Make sure you read them before your first lab!

Online WHMIS Videos and Safety Quiz:

Before arriving to your first lab period, you will be required to watch a series of WHMIS laboratory safety videos and complete an online safety quiz. These are found on your Blackboard homepage and listed as: Workplace Hazardous Materials Information System. 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; even if you've take the quiz in previous semesters for other courses, it must be repeated for the current semester.

Lab Skill Seminars:

To help you prepare for your labs, there will be a one-hour seminar offered the week before the start of each new experiment. These will be held on Fridays on the following dates:

- Friday May 11th (Experiment 1)
- Friday May 25th (Experiment 2)
- Friday June 29th (Experiment 4)
- Friday July 20th (Experiment 5)

The exact time and location will be announced as soon as it's available. For those of you who cannot make the set times, the seminars will be recorded and posted on Blackboard. Please note, however, that **the seminars will not run if fewer than 5 students show up.** This is as a courtesy to your lab demonstrators who will be running the seminars, and who would not appreciate lecturing to an empty room!

Text:

Organic Chemistry: Mechanistic Patterns, by William Ogilvie et al. This text is available for purchase at the UTSC Bookstore as a bundle with the student solutions manual (contains full solutions to all odd numbered questions). If you do not want the solutions manual, you can purchase the text instead through Amazon or Chapters/Indigo. Alternatively, you can purchase a used copy of the text, or use one of several copies currently on reserve in the library.

Term Tests:

There will be two, 75-minute term tests written outside of class time. The first will be scheduled by the registrar and will be sometime before reading week. The second will be held during the regularly scheduled lab period on Wednesday July 18th. Further details on when and where you will be writing, along with test content and format information, will be announced as soon as it is available.

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.

Policy on Missed Tests, Labs and Tutorials:

Should you miss a lab or term test due to a legitimate reason, you must contact Dr. Sauer by email ***within 24 hours***, and submit appropriate documentation ***within 5 business days*** of your absence. If the reason for your absence is medical, an official UTSC medical note must be downloaded from the UTSC registrar's website and completed by your doctor (http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf).

Note that the completed note must meet the following criteria:

- Your physician must have examined you during the period of illness/injury (not before or after the fact).
- The missed test or lab must fall within the indicated start date and anticipated end date.
- The physician must rank your illness as either moderate, serious or severe; illnesses deemed mild or negligible will not be considered valid excuses. This is a departmental policy.

If no acceptable documentation is received within 5 business days of your absence, you will receive a grade of zero for the missed lab and/or test. Once your absence has been validated, accommodations will be made for the missing grades. For missed term tests, this will mean redistributing the missed test grade over the other term test and the final exam. For missed labs, this will mean either a make-up lab (if space/schedule allow), or a redistribution of the missed lab grades over the other lab grades. Note that students must complete at least three of the wet labs (experiments 1, 2, 4 and 5) to pass the course – regardless of the reasons for their absences.

Missed tutorials do not need to be brought to the attention of Dr. Sauer. Only 10 of the 12 tutorial grades will count toward the final tutorial grade (the lowest two grades will be dropped). This means each student can miss up to two tutorials without academic penalty. If more than two tutorials are missed, the missed tutorials will be given a grade of zero – regardless of the reason for the absence.

Method of Evaluation:

Graded Work	Value
Term test 1	15%
Term test 2	20%
Laboratory	20%*
Tutorials	10%
Final exam	35%
TOTAL	100%

**Lab material will also appear on the final exam making its total weight in the course ~ 25%*

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

- 1) Earn a passing grade in the course overall (> 50%)
- 2) Pass the laboratory (including the completion of at least 3 “wet” experiments)
- 3) Pass at least one of the term tests or the final exam

Course Schedule:

Week of	Lectures (view <i>before</i> tutorial)	Corresponding Textbook Readings	Tutorial Topic	Labs
May 7th	1 to 3	5.1-5.10	Chapter 5	
May 14th	4 to 6	9.1-9.3, 9.5	Chapter 9	Exp't 1 (odd)
May 21st	7 to 9	10.1-10.7	Chapter 10 (part 1)	Exp't 1 (even)
May 28th	10 to 12	10.8-10.10, 13.1-13.4.2	Chapter 10 (part 2)	Exp't 2 (odd)
June 4th	13 to 15	13.4.3-13.5	Chapter 13 (part 1)	Exp't 2 (even)
June 11th	16 to 18	13.6, 14.1-14.6	Chapter 13 (part 2)	Exp't 3 (odd)
June 18th	READING WEEK			
June 25th	19 to 21	14.7, 7.1-7.9.1	Chapter 14	Exp't 3 (even)
July 2nd	22 to 24	7.9.2-7.11, 15.1-15.3.3	Chapter 7	Exp't 4 (odd)
July 9th	25 to 27	15.3.5-15.8	Chapter 15 (part 1)	Exp't 4 (even)
July 16th	28 to 30	15.9-15.11, 16.1-16.4, 16.6	Chapter 15 (part 2) & Chapter 16	TERM TEST 2
July 23rd	31 to 33	17.1-17.4	Chapter 17 (part 1)	Exp't 5 (odd)
July 30th	34 to 35	17.5, 17.6.4-17.6.5, 17.7 (skip 17.7.4), 17.8, 18.2	Chapter 17 (part 2) & Chapter 18	Exp't 5 (even)

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. For more information regarding ancillary fees, students are encouraged to visit the following website: <http://www.planningandbudget.utoronto.ca/tuition.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 ensure you can achieve your learning goals in this course. Enquiries are confidential. The UTSC AccessAbility Services staff (located in S302) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (416) 287-7560 or ability@utsc.utoronto.ca.

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. to commit 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.