

Organic Reaction Mechanisms (CHMC41H3)
Winter 2019
University of Toronto Scarborough
(A Tentative Syllabus)

Welcome to CHMC41! This course is intended for students who have completed the two-semester introductory course in organic chemistry (CHMB41 & CHMB42) and wish to expand their understanding of structure and reaction mechanisms in organic chemistry. The laboratory experiments are designed to complement the topics covered in lectures. Organic chemistry is a perfect combination of theory and practice, as you will experience them. CHMC41 is going to require some hard work, but you will find your efforts rewarding. Modern organic chemistry is about your daily life and your future, and CHMC41 provides the theory and practice to make you prepared to explore this fascinating field.

Students enrolled in CHMC41H must have previously successfully completed CHMB41 and CHMB42. Please carefully read through this document before we get started. It contains important information which will help ensure you have all the tools you'll need to succeed in this course.

Team:

Instructor:

Prof. Xiao-an Zhang
EV-550
Email: xazhang@utsc.utoronto.ca
Office Hours: Monday 3:00-5:00 pm

Lab Coordinator:

Prof. Lana Mikhaylichenko
EV-556
Email: mikhay@utsc.utoronto.ca
Office Hours: Monday 2-3 pm and Tuesday 10-11 am

Lecture Schedule and Locations:

Monday 9 am -12 pm in SW-143

Textbook:

Advanced Organic Chemistry Part A: Structure and Mechanisms, 5th Ed., by Francis A. Carey and Richard J. Sundberg, Springer. The textbook is available online with **free** access on campus: <https://link-springer-com.myaccess.library.utoronto.ca/book/10.1007%2F978-0-387-44899-2>

Students can download the pdf files and read them at home. The hardcopy can be purchased from the UTSC Bookstore or online by yourself.

Suggested References:

- (1) *Organic Chemistry*, Paula Yurkanis Bruice, Pearson Education, Inc.
- (2) *March's Advanced Organic Chemistry: Reactions, mechanisms and structure*, 6th Edition, Michael B. Smith and Jerry March, Wiley.
- (3) *Organic Chemistry*, 2nd Edition, Jonathan Clayden, Nick Greeves, and Stuart Warren, Oxford University Press

These recommended (not compulsory) readings are available in the UTSC Bookstore, online or the Reserves section of the UTSC Library.

Website:

CHMC41 will be using Quercus to release and archive course-related information including: class announcements, lecture slides, contact information and occasionally some useful outside resources. ***In order for you to receive these emails, you must h***

Final Examination:

Normally, this would be in the form of an official UTSC medical note completed by your doctor

(http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf);

Documentation should be provided as soon as possible so that a makeup lab can be scheduled, provided that room can be found in another lab section. ***If no reason for your absence is made, a mark of zero will be given for that lab.***

Lab quiz:

It will be a short 10 min quiz at the beginning of each lab. Please read a Laboratory Schedule section on a Quercus for more information about each lab.

Lab Website:

Method of Evaluation:

The following grading system will be used to calculate your final grade.

To obtain unauthorized assistance on any assignment.

To provide unauthorized assistance to another student. This includes showing another student completed work.