

ORGANIC CHEMISTRY I  
CHMB4 1H3  
LECTURE OUTLINE

This document contains important course information and should be kept in a safe place where you can refer to it throughout the semester.



- d) Predict major and minor products of reactions based on reaction data and explain why/how they are formed
- e) Compare and contrast thermodynamic versus kinetic products and conditions for formation of each
- f) Classify reactions as substitution, elimination, addition, etc and



*made up **within 1 week** of the missed lab and if there are further conflicts or a student misses a makeup lab, no more makeup opportunities will be provided and there will be a mark of zero recorded for that lab.*

### Laboratory Rules

Please arrive *on time* for your labs and come *prepared*. The experiments are designed such that a *well-prepared* student can complete the experiment in the allotted time. If you haven't read over the procedure ahead of time and made sure that you understand each step, it will likely be difficult for you to finish your work on time. As a suggestion, I recommend that you prepare a *print* version of the lab procedure before coming to each lab.

#### Lab Manual:

This must be purchased from the UTSC Bookstore (\$10). Note, you may not use a lab manual from a previous year as many of the experiments are *changed* year

Lab Coats: They are required. They may be purchased from most Hardware stores or from the UTSC Bookstore.

Safety Glasses: Safety glasses must be worn at all times in the lab. Students who do wear glasses should purchase a pair of goggles which must be worn over their glasses at all times. Contact lenses must not be worn in the laboratory. **NO STUDENT WILL BE ALLOWED TO WORK IN THE LABORATORY UNLESS HE/SHE IS WEARING APPROVED EYE PROTECTION.**

Be punctual: The introductory explanations for the experiments and/or quizzes will begin at 10 minutes past the hour.

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- put CHMB41 in the subject line followed by the reason for the email
  - use a greeting of some kind NOT "Hey"
  - sign your first and last name
  - please include your student number after your name
- Student emails will be replied to within 24

to write a deferred exam (NO MAKEUP for midterm), AT THE INSTRUCTOR'S DISCRETION.

*Please note that if you miss the Final Exam, you must petition the Registrar's Office to write a make-up exam in the next formal exam period.* Check the UTSC Calendar for instructions and deadlines.

Marked Term Tests - an announcement will be made, in lecture and/or on the intranet and Blackboard, when tests are marked. You have one week to check your test with Shadi Dalili, during any office hours or other announced times. Re-marking claims will only be considered for one week after the announcement has been made. Re-marking claims must be accompanied by a written statement, outlining the difficulty and presenting data (referenced, if necessary) to support your claim for extra marks.

Lecture Schedule: This is a ROUGH GUIDE only and may change throughout the term. Check for updated lecture schedule based on notes posted on Blackboard and announcements in class.

Week of:	Chapters	Subject
Jan 10	1	Introduction: Electronic structure, Bonding
Jan 17	1,2	Functional Groups, Structure representation
Jan 24	2,4	Nomenclature, Conformations of alkanes,
Jan 31	4,3	Cyclohexane conformations, Intro to Org reactions
Feb 7	3,5	Acids and Bases, Stereochemistry: Arrangement of Atoms in Space
Feb 14	5,6	Stereochemistry: Arrangement of Atoms in Space, Addition reactions

### SUGGESTED PROBLEMS:

A separate document listing the assigned problems will be posted on Blackboard. assigned problems are a minimum number suggested for you to *OMIT any questions pertaining to material that is not covered in lectures as you will not be responsible for it unless told otherwise.* You should always attempt as many problems as possible, as Organic Chemistry is mainly learned by "doing". The best way to do this is to keep up with the lecture material as much as possible, getting help with any problems as soon as you can, and attempting most of the problems within and at the end of each chapter probably best to try these before you try the online homework problems.