

CHMB41H3, ORGANIC CHEMISTRY I, 2007 Fall

Instructor & Course Co-ordinator: J.P.Potter (S-633A). phone:416-287-7222. e-mail: potter@utsc.utoronto.ca. Office hours: W10-12; R1-2; F 10-12 noon. Other times by appointment.

Required Materials: Textbook: "Organic Chemistry" 5th ed., by Paula Yurkanis Bruice, Prentice - Hall Inc.,2006. A package of the text with a Study Guide & Solutions manual, and an ACE access code (good for 12 months from first registration, for any course) for the online quizzes, is available, at the Bookstore. *The same text is used for CHMB42H3, C41H3 & C42H3 to make it cost effective.*

Textbook Media links are available at: <http://www.prenhall.com/bruice/>.

Lectures: M, W, F 8 a.m. in ACC223.

Lecture Schedule:

Week of	5thEd Ch	4thEd Ch	Topic
Sep 10	1	1	Introduction:Electronic Structure, Bonding, Acids & Bases
Sep 17	1,2	1,2	Nomenclature, Physical Properties, Structure Representation
Sep 24	2,3	2,3	Alkene Nomenclature, Structure, Reactivity. Thermodynamics & Kinetics
Oct 1	3,4	3,4	Hydrocarbons, Reactions of Alkenes.
Oct 10	4,5	4,5	Stereochemistry: Arrangement of Atoms in Space; Addition reactions
Oct 15	5,6	5,6	Stereochemistry: Arrangement of Atoms in space. Alkyne Reactions
Oct 22	6	6	Alkyne Reactions. Review exercises.
Oct 15- Nov 9			90 minute term test. Date, time, rooms TBA
Oct 29	7	7	Resonance & Electron delocalization; Reactions of Dienes;
Nov 5	8	8	Substitution Reactions of Alkyl Halides
Nov 12	9	9	Elimination Reactions of Alkyl Halides; Competition.
Nov 19	10	10	Other Substitutions & Elimination Reactions; Organometallics
Nov 26	11	11	Alkanes; Radical Reactions
Dec 7-21	EXAM	PERIOD	Three Hour Term Test 5th Ed. Chapters 1 - 11. 4th Ed. Chapters 1 -12. ANY TRIPS SHOULD NOT BE BOOKED TO LEAVE UNTIL AFTER THIS TIME!

No calculators, models, pagers, cell phones or other aids will be allowed during any lecture test or exam, unless announced previously. Approved calculators (Texas Instruments, TI30; TI32; TI-34; SharpEL-531;EL-509;EL-530; Casio fx-65; fx-250; fx-260; fx-280.) may be allowed during laboratory quizzes and tests.

Persons who miss a test or exam, or lab are expected to contact the Instructor immediately by phone or e-mail. Documentation, for approval, must be given within one week (e.g. Doctor's note - which should say that you were seen on the day in question, and that in the Doctor's opinion you were unable to write a test that day) A suitable blank note is given on the intranet, as well as linked to the course web site & there is a copy in the lab manual. If the documentation is insufficient, you may be required to obtain further, signed,

paperwork. Those presenting a valid, documented reason for test absence, in writing, within this time frame, will be allowed to be excused, and the marks added to the final exam. Lab make-ups will be scheduled where possible.

Marked Term Tests - an announcement will be made, in lecture and/or on the web site or intranet, when tests are marked. It is your responsibility to pick up your marked test from Janet Potter during announced times (generally lab times). **Re-marking claims will only be considered for one week after the announcement has been made.** The whole paper will be re-marked. Any 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.

CHMB41H3 Marking Scheme:

One term test	Online quizzes	Final Exam	Laboratory mark (breakdown on 1st page of lab manual)	TOTAL
25	5	45	25	100

The due dates for the online tutorials (learning how to use the MarvinSketch program & drawing mechanisms) and the quizzes, will be given on the intranet, and on the ACE web site. If you had previously purchased the text package from or since Sept. 2006, or an ACE access code, it will be re-usable with the same password etc

Campus Computer Network

If you were a student at the College last year, then you already have an account. If not, sign up for a UTSC account at <http://www.utsc.utoronto.ca/~accounts/newaccount.cgi>, having your Tcard ready. Various software, e-mail and printing facilities, as well as access to the internet and intranet are available.

The course web site is at: <http://www.utsc.utoronto.ca/~potter/CHMB41w/Index.htm>. It includes only general lecture and lab reference material. More detailed material, including some lecture material and answers to lab problems, can be accessed on the intranet site from the UTSC Home page. **Always check the intranet for information regularly**; I will use it to post notes, as well as announcements of a general & specific nature. Since I get hundreds of e-mails, anything that can easily be found by you, on the intranet, will not get an answer! For chemistry questions, direct your questions to the CHMB41 google group, so that answers, which are often time-consuming, can be shared by many people. To join, sign up at: <http://groups.google.com/group/utscchemb41> to post: utscchemb41@googlegroups.com

Lab Information & Manuals

The Lab Manual material will be sold in the bookstore. Buy it soon and read the whole Introduction and the first experiment, plus the relevant parts of the Appendix. There will be 10 minute lab quizzes that require knowledge from all sections of the lab material, for each expt, beginning in the second lab period.

Bring to your first lab: a lab coat; chemical safety glasses; a hardcover notebook (\$1 store?); a blue or black non-erasable **pen**. Leave a few pages in the notebook for an index, before beginning an Introduction to the first experiment on a right-hand page. The TA's will go over the lab manual material on notebooks, plus distillation and its results, in the lab, but you are required to read and think ahead on all lab materials.