

ORGANIC CHEMISTRY – CHE201A/203A
Fall 2007
Mon/Wed/Fri 11:00-11:50am, NSC 225

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OFFICE HOURS: Tue 4-6pm, Wed 5-6pm.

Organic chemistry is the chemistry of carbon compounds. Carbon has a unique ability to form strong bond to other carbon atoms and to a wide range of other elements. This creates an endless variety of complex carbon compounds, which provides the basis of life on Earth. Over the years, chemists have learned to synthesize many of these complex molecules and produce new compounds and products that became an integral part of our lives. Drugs, medicines, plastics, paints and fibers are all based on carbon compounds. In this course, you will learn the basics of organic chemistry, such as bonding, stereochemistry and reaction mechanisms. Structure, synthesis and reactions of hydrocarbons and alcohols will be covered in detail.

REQUIRED TEXTS: *Organic Chemistry*, 6th Edition, Wade, Prentice Hall

The following study aids are also required and are sold along with the text in a single package:

- 1) Solutions manual for problems in Wade
- 2) Molecular model kit

Lecture Schedule

Aug 27, 29, 31	Chapter 1. <i>Introduction and Review</i>
Sept 5, 7, 10	Chapter 2. <i>Structure and Properties of Organic Molecules</i>
Sept 12, 14, 17	Chapter 3. <i>Structure and Stereochemistry of Alkanes</i>
Sept 19, 21, 24	Chapter 4. <i>The Study of Chemical Reactions</i>
Sept 26, Oct 1, 3, 5, 8, 10	Chapter 5. <i>Stereochemistry</i>
Oct 12, 15, 17	Chapter 6. <i>Alkyl Halides: Nucleophilic Substitution and Elimination</i>
Oct 19, 22, 24, 26	Chapter 7. <i>Structure and Synthesis of Alkenes</i>
Oct 29, 31, Nov 5, 7	Chapter 8. <i>Reactions of Alkenes</i>
Nov 9, 12, 14, 16	Chapter 9. <i>Alkynes</i>
Nov 19, 26, 28	Chapter 10. <i>Structure and Synthesis of Alcohols</i>
Dec 3, 5, 7	Chapter 11. <i>Reactions of Alcohols</i>

Exam Schedule (11:00-11:50am, Rooms: NSC 225 and Cooke 121)

September 28	<i>Midterm I</i> (Chapters 1-4)
November 2	<i>Midterm II</i> (Chapters 5-7)
November 30	<i>Midterm III</i> (Chapters 8-10)

Time and place for the *Final* exam will be announced later.

The Course: Organic Chemistry is a difficult course. A large amount of material will be covered, and you will be asked to master concepts needed to explain the structure and reactivity of organic molecules. You will benefit from developing a systematic approach to learning the material in this class. The following should be essential elements of any study plan.

- 1) Regular attendance at lectures.
- 2) Regular reading of your assignments in the textbook. This is essential. It will be much easier to follow the lectures if you have read over the lecture material before coming to class.

- 3) Reviewing and expanding upon your notes as soon as possible after each lecture.
- 4) Solving the problems at the end of each chapter in the textbook.

Examinations: Midterm examinations have been scheduled for the regular lecture times on Fridays. The classroom where you will be taking the exams (either NSC 225 or Cooke 121) will be assigned based on your last name. Almost all of the questions on examinations will be taken directly from the lecture notes. However, you will be responsible for material in the text not covered by the lectures unless stated otherwise in the class. Occasionally, you will be tested on material that was not covered in class. The examinations may include multiple choice and short answer questions. You are required to use a pen to write answers on the examination sheet.

Grading: Errors in the grading of examinations should be presented to me within one week after the return of the examination to class. No grades will be changed after this time. If you want your exam regarded, then return it to me along with a note explaining the nature of the error in grading.

Missed examinations: Do not miss the exams. Only students with a documented excused absence which is in conformance with the University guidelines for excused absences will be granted a make up exam. Make up exams will cover the same subjects, will be comparable in difficulty, and will be composed of different questions than the missed midterm examination. If proper excuse documentation is provided, every student is eligible for only one make up exam. For all other missed examinations, a grade of zero will be assigned.

Letter grade assignment: The letter grade will be determined from the results of three midterm examinations, the final examination and laboratory work. There will be a total of 1000 points for the course.

Three midterm examinations (150 pts/each)	450 pts
Final examinations	300 pts
Laboratory	250 pts
<u>Total</u>	<u>1000 pts</u>

The distribution of test scores and the approximate cutoff points for letter grades will generally be posted on the course web site several days after the examination.

If you want your grade to be assigned on an S/U basis, then you must file the appropriate form. Last day to drop the course is September 7th. Last day to “resign” the course (receive grade “R”) is November 9th. After this time, I am required to assign you a letter grade for your work. For more details, check the Academic Calendar.

Cheating: Cheating is an insidious practice. Your grade is assigned by measuring your performance against the average performance of others in this class. Cheating raises the class average for the benefit of those who cheat, and to the detriment of honest students. In order to minimize cheating, examinations will be copied at random to prevent alterations to incorrect answers; and the proctors will be asked to watch closely for roving eyes. Cheaters who are caught in the act will receive zero for the examination. If second academic dishonesty is committed, the student will automatically fail the class.

CHE 201 Course website on UBLearn: The URL for this site is <http://ublearns.buffalo.edu/>. Syllabus, copies of old examinations, grade distributions and occasional announcements will be posted on this site. Please check the site regularly for class materials.

Laboratory: The laboratory is under the direction of Dr. William Koehn. All questions related to the laboratory should be directed to Dr. Koehn or to your laboratory instructor.