

## Organic Chemistry 211

Fall, 1999- A and C Hours, room 205K  
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**Description:** This course will consist of a general survey of elementary theory, preparation, reactions, and properties of the compounds of carbon, both aliphatic and aromatic, containing the most important functional groups. We will accomplish this survey by exploring the underlying principles of reactivity of organic compounds.

**Goals:** Your goals in this course should not only be to learn a series of organic transformations, but to understand and demonstrate how these many different reactions all flow from a basic set of fundamental principles. You should also be able to apply your knowledge of existing systems to new areas.

**Text:** Brown, W. H.; Foote, C. S. Organic Chemistry, 2<sup>nd</sup> ed. On reserve in the library are: Weeks, E. Pushing Electrons: A Guide for Students of Organic Chemistry and Bank, S.; Bank, J. 1001 Ways to Pass Organic Chemistry: A Guide for Helping Students Prepare for Exams. The Weeks book may be purchased at the bookstore if desired. The bookstore also sells relatively inexpensive molecular model kits, which are highly recommended.

**Class Notes:** You can download and print a copy of the class lecture notes from the academic volume (Faculty Folders- Works). Each chapter will be available a few days before we start it in class. These notes are designed to *supplement* your in-class note-taking. They also contain the assigned problems and any corrections to the answer book. Note that you can modify the text to suit your own particular needs, such as leaving more space for extra notes or drawings. Please realize that these notes are meant to be a rough approximation of in-class activity- they *should* be modified by you!

**Evaluation:** Your final grade will be based on four hour-long exams (100 points each) and the final exam (200 points). An optional 1 point quiz will be given daily- these quiz points are extra points which will be added on to your final point total! Approximately 30 daily quizzes will be given. The grading scale is:

A	(100-93%);
A-	(92-90%);
B+	(89-87%);
B	(86-83%);
B-	(82-80%);
C+	(79-77%);
C	(76-73%);
C-	(72-70%);
D+	(69-63%);
D	(62-56%);
D-	(55-50%).

**Policies:** Your attendance at every lecture is expected. The lecture schedule is only a rough guide, and will probably not be strictly adhered to. The exam schedule will be rigorously followed. Please speak to me *ahead of time* if you need to miss an exam- in almost all cases, the exam will be given *before* the regular class exam. Missed exams can be made up only in case of emergency or prior permission. Being sick the weekend before an exam is not a reason for an extension. Quizzes are given precisely at the start of class for no more than 5 minutes, so please be on time. If you miss a quiz, you will not have the option of making a bonus point unless you speak to me about it. Quizzes must be made up through your own initiative *before* the next class. Of course, your behavior in this class is governed by the Honor Code.

**Office hours:** Basically, I want to see you whenever you want to see me! I will definitely be in or near my office every Tuesday, 10-11:30 and Thursday, 1:30-4 (check with Dr. Loprete if you can't find me Thursday afternoon; she'll know where to find me). I am available at many other times, but since it is not guaranteed that I will be in my office, please make an appointment. I usually get in at 9:30-10 on Tuesday/Thursday and leave by 4 on Thursday/Friday, and am unavailable Mondays 4-5. Otherwise, I'm here 8-5, with lunch 11:45-12:45.

**Tips on doing well in organic chemistry:**

- 1) Never miss a class. Furthermore, pay attention and take good notes. You ought to re-write your notes daily. Many people have found that supplementing their class notes with notes from the text is a wonderful way to compile and understand the material. Also, make a reaction summary sheet as the class progresses. This sheet will eventually be priceless.
- 2) Read and understand the material in the text! Do the problems (without cheating) as you do a section, then *do them again a few days later*.
- 3) If you're lost, the best way to catch up is to try to identify where you first got confused. From there, you can look at each piece of information and decide what the problem is. You can possibly fix the problem by simply rereading your class notes and the relevant sections in the text. Otherwise, stop by, e-mail, or call me. If you think you need a lot of help, we'll set up a long appointment.
- 4) Utilize the peer tutor. She or he did very well in organic, and so they can help with understanding the material as well as providing study tips.
- 5) Most importantly- work hard, keep up, and don't get behind. It is *extremely difficult* to catch up. **Falling behind is the major reason for difficulties in organic.**

**Class Schedule:**

August 25	Introduction
August 27	Chapter 1: Covalent Bonds and Shapes of Molecules (no quiz)
August 30	Chapter 1
September 1	Chapter 1
September 3	Chapter 2: Alkanes and Cycloalkanes
September 6	Labor Day- no class meeting.
September 8	Chapter 2
September 10	Chapter 2
September 13	Chapter 3: Acids and Bases
September 15	Chapter 4: Stereochemistry

September 17	Chapter 4
September 20	Chapter 4
September 22	Chapter 5: Alkenes I
<b>September 24</b>	<b>Exam</b>
September 27	Chapter 5 (no quiz)
September 29	Chapter 5
October 1	Chapter 6: Alkenes II
October 4	Chapter 6
October 6	Chapter 6
October 8	Chapter 7: Alkyl Halides and Radical Reactions
October 11	Chapter 7
<b>October 13</b>	<b>Exam</b>
October 15	Chapter 7 (no quiz)
October 18	Fall break- no class meeting.
October 20	Chapter 8: Nucleophilic Substitution and $\beta$ -Elimination
October 22	Chapter 8
October 25	Chapter 8
October 27	Chapter 8
October 29	Chapter 8
November 1	Chapter 9: Alcohols and Thiols
November 3	Chapter 9
November 5	Chapter 9
November 8	Chapter 10: Alkynes
<b>November 10</b>	<b>Exam</b>
November 12	Chapter 10 (no quiz)
November 15	Chapter 10
November 17	Chapter 11: Ethers, Sulfides, and Epoxides
November 19	Chapter 11
November 22	Chapter 11
November 24, 26	Thanksgiving break- no class meeting.
November 29	Chapter 14: Infrared and UV-Vis Spectroscopy
December 1	Chapter 14
<b>December 3</b>	<b>Exam</b>
December 6	Chapter 14 (no quiz)
December 8	Review (no quiz)
<b>December 10</b>	<b>A hour Final Exam, 1-3:30 p.m.</b>
<b>December 13</b>	<b>C hour Final Exam, 8:30-11 a.m.</b>