

Instructor: Professor Gregory B. Dudley

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Webpage: <http://www.chem.fsu.edu/dudley/index.html>

Office Hours: MONDAY 10:00 am – 11:00 am

THURSDAY 9:00 am – 10:00 am

FRIDAY 11:30 am – 12:30 pm

Textbook: • *Organic Chemistry*, Carey, 8th Edition

Other materials: • iClickers for in-class responses
• Sapling Learning on-line homework account
• Molecular Visions (or other) plastic model kit

Recitation Instructors • Mike Rosana < mrosana@chem.fsu.edu >
• Sami Tlais < stlais@chemmail.chem.fsu.edu >
• Dustin Richard < drichard@chem.fsu.edu >

Tuesday Recitation Schedule:

Section	Time	Room	Recitation Instructor	Office hours and location	Course Ref. Number
11	2:00–2:50 pm	214 HTL	Mike	Mon 4:00 pm	06826
12	3:00–3:50 pm	214 HTL	Mike	CSL 5010	06827
13	4:00–4:50 pm	214 HTL	Sami	Tues 11:00 am	06828
14	5:00–5:50 pm	214 HTL	Sami	CSL 5010	06829
15	6:00–6:50 pm	214 HTL	Dustin	Wed 10:00 am	06830
16	7:00–7:50 pm	214 HTL	Dustin	CSL 5010	06831

Prerequisite: CHM 1046 or equivalent with a grade of "C–" or higher, or CHM 1045 or equivalent with grade of B or better and permission of instructor.

Course Description/Objectives

This course is intended for science majors, premed students, and others who will benefit from a strong background in organic chemistry. It covers the first ten chapters of the Carey textbook, with a focus on structure and properties of organic compounds and an introduction to the chemical reactivity of simple structural elements. Students will gain a working knowledge of the concepts covered in each chapter, including an appreciation for trends in reactivity and an ability to imagine organic molecules in their true, three-dimensional shapes. Specific objectives for each chapter are available in the textbook.

Genius without education is like silver in the mine. — Ben Franklin

Study Hints:

Take an active role, not a passive one, in learning new material! Prepare for class by reading ahead, so that you know before you arrive what will be covered. A large portion of the course involves solving various problems. Practice, practice, practice, by working as many of the end-of-chapter homework problems as you can.

Course Schedule:

Week	Day	Lecture topic	Week	Day	Lecture topic
1. 8/23	M	Intro	9. 10/18	M	Ch. 7: Stereochemistry
	W	Ch. 1: Structure		W	Ch. 7
	F	Ch. 1		F	Ch. 7
2. 8/30	M	Ch. 1	10. 10/25	M	Ch. 8: Substitution
	W	Ch. 2: Hydrocarbons		W	Ch. 8
	F	Ch. 2		F	Ch. 8
3. 9/06	M	LABOR DAY	11. 11/01	M	Review and catch-up
	W	Ch. 2		W	Test Two (Ch. 1–8)
	F	Ch. 3: Hydrocarbon structure		F	HOMECOMING
4. 9/13	M	Ch. 3	12. 11/08	M	Ch. 9: Alkynes
	W	Ch. 3		W	Ch. 9
	F	Ch. 4: Alcohols and Halides		F	Ch. 9
5. 9/20	M	Ch. 4	13. 11/15	M	Ch. 10: Conjugation
	W	Ch. 4		W	Ch. 10
	F	Ch. 4		F	Review and catch-up
6. 9/27	M	Review and catch-up	14. 11/22	M	Test Three (Ch. 1–10)
	W	Test One (Ch. 1–4)		W	Special Topic lecture
	F	Review and preview		F	THANKSGIVING
7. 10/04	M	Ch. 5: Alkenes: Preparation	15. 11/29	M	Review and catch-up
	W	Ch. 5		W	Review for final
	F	Ch. 5		F	Review for final
8. 10/11	M	Ch. 6: Alkenes: Reactions	16. 12/06	M	FINAL EXAM
	W	Ch. 6			7:30 AM, 255 FLH
	F	Ch. 6			

Exams:

Note the scheduled exam dates now and plan accordingly. There **will be no make-up tests**; the final exam will be prorated to cover any excused absences on test days.

Hour Test 1	Wednesday, September 29	100 points
Hour Test 2	Wednesday, November 3	100 points
Hour Test 3	Monday, November 22	100 points
Final Exam	MONDAY, December 6, 7:30 am – 9:30 am	250 points

Recitation quizzes:

50 points

Short quizzes will be given in recitation. There will be no make-up quizzes, just as there are no make-up lectures. The best 10 quiz scores will be counted.

iClicker Audience Response System:**50 points**

Quick iClicker questions will be asked in lecture. You must be in class with a functioning iClicker to participate (no make-ups). You will receive 1 point for an incorrect response and 2 points for a correct response. The best 25 responses will be counted.

On-line homework (Sapling Learning):**50 points**

Graded homework exercises with instant answer feedback will be assigned. You should familiarize yourself with this system and use it to reinforce your learning. At the end of the semester all of the on-line homework scores will be compiled and graded on a 50-point scale for inclusion in your final grade. On-line homework is a new feature of the course this semester; please be patient as Prof Dudley becomes familiar with the system.

Homework assignments will be due on *the first Monday* after we finish discussing each chapter in class, except for Chap 1, which is due on Aug 31. There is one assignment for each chapter. The maximum score for any assignment is 20, so the maximum score for the term is 200. Your HW score will be adjusted to a 50-point scale at the end of the term.

To get set up for the on-line homework, following these instructions:

1. Go to <http://saplinglearning.com>
2. If you already have a Sapling Learning account, log in, click "View Available Courses", then skip to step 6.
3. Otherwise, click "Sign up for new account" located under the Login box.
4. Choose a new username and password, and supply the other requested information. Click "Create my new account".
5. Check your email (and spam filter) for a message from Sapling Learning and click on the link provided in that email.
6. Find your course in the list (listed by school and instructor) and click the link.
7. Enter the enrollment key: **Y6nR829**
8. Click the button that says "Send payment via Paypal or Credit Card" and follow the remaining instructions.
9. Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments.
10. If you have any problems, send an email to support@saplinglearning.com explaining the issue.

The majority of the problems involve structure drawing. Depending on the question, stereochemistry or curved arrows must also be drawn. Some questions allow one to drag given structures/formulas to rank by a property (e.g., acidity) or sort into groups (e.g., alkene vs. alkyne). Nomenclature questions allow one to type in the name. There are also some multiple-choice questions. The online problems: 1) allow pretty much any question that is asked on paper to be performed on a computer; 2) enable one to draw their own structures, just as one will need to do on an exam; 3) grade instantly and provide feedback via tutor-like hints, allowing one to keep working with a question to arrive at the correct answer; 4) include detailed answer explanations.

End-of-chapter problems:

You are encouraged to work as many problems at the end of the chapter as you are able. *Some of these problems will appear on quizzes, tests, and the final exam!*

Grading:

The course grade will be calculated on the basis of **700 points**, distributed as follows:

Three Hour Tests,* 100 points each:	300 points
Final Exam, 100 points x 2.5:	250 points
Recitation quizzes (5 points each, highest 10 counted):	50 points
iClicker points (2 points each, highest 25 counted)	50 points
Online HW points (20 points each x 10 / 4)	50 points
Total	700 points

***No make-up tests. Final exam grade will replace excused absence grade.**

Grading Scale:

Letter Grade	Percentage	Letter Grade	Percentage
A	90-100	C	70-72.9
A-	87-89.9	C-	65-69.9
B+	83-86.9	D+	62-64.9
B	80-82.9	D	60-61.9
B-	77-79.9	D-	57-59.9
C+	73-76.9	F	0-56.9

(I may choose to lower the cut-off scores, but I will not raise them.)

Honor Code

Students are expected to uphold the Academic Honor Code. The Academic Honor System of The Florida State University is based on the premise that each student has the responsibility to:

1. Uphold the highest standards of academic integrity in the student's own work,
2. Refuse to tolerate violations of academic integrity in the University community, and
3. Foster a high sense of integrity and social responsibility on the part of the University community.

Cheating will result in an automatic "F." The full honor code is available at:

<http://www.fsu.edu/~union/honor.htm>

Blackboard and Class Web Pages

Your web interface with the course will be through Blackboard. **You must obtain an FSU Email account on garnet or mailer in order to access this material!** You can register for an FSU account at: <http://cars.acns.fsu.edu>. Two other links may be of help in getting set up for computer use at FSU: <http://www.acns.fsu.edu/students/> and <http://gtcr.fsu.edu/>

ADA Requirements

Students with disabilities needing academic accommodations should:

1. Register with and provide documentation to the Student Disability Resource Center (SDRC).
2. Bring a letter to the instructor from the SDRC indicating you need academic accommodations. This should be done within the first week of class.

(This syllabus and other class materials are available in alternative format upon request.)

For more information about services available to FSU students with disabilities, contact the

Assistant Dean of Students: sdrc@admin.fsu.edu, Disabled Student Services, 08 Kellum Hall, Florida State University, Tallahassee, FL 32306-4167, (850) 644-9566. Or visit their web site at: <http://www.fsu.edu/~staffair/dean/StudentDisability/index.html>