

CHM 2002 Organic Chemistry 2 – Fall 2009 (CRN 93094)
MWF 12:00 – 12:50 pm; Room 144PS

Instructor: Dr. Nasri Nesnas

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Office Hours: Mon, Wed, 10:30 am- 12:00 pm, or by appointment.

Text: L. G. Wade, Jr., *Organic Chemistry*, 6th ed.

Molecular Models: Available in the bookstore.

(alternative types are available from amazon.com or from indigo.com)

Homework:

Recommended homework will be assigned, collected, and graded. **No** late homework will be accepted! Let me stress that it is to your great advantage to work on the assigned problems.

Grading:

In science, as in languages, new knowledge uses and builds on previous knowledge; therefore, all examinations will be both comprehensive and cumulative. You will be given ten (10) in-class quizzes. These will be given each Friday, beginning the first week of classes, with the exception of exam weeks. Each quiz will be worth 10 points and will cover that week's lecture. You will be allowed to drop your two (2) lowest quiz grades. You will also have four in-class exams, homeworks, and a final exam. The grade breakdown is as follows:

Hour Exams (4 x 100)	400 pts.
Homework	70 pts.
Quizzes	80 pts.
Final Exam	<u>150 pts.</u>
Total	700 pts.

The tentative exam schedule is as follows:

Exam I	Friday, September 11
Exam II	Friday, October 9
Exam III	Friday, November 6
Exam IV	Monday, November 23
FINAL	Monday, December 7 (8:00 am – 10:00 am)

Course Outline:

1. Reactions of Alkenes and Alkynes	Ch. 8-9
2. Alcohols	Ch. 10-11
3. Ethers and Epoxides	Ch. 14
4. Conjugation and Aromaticity	Ch. 15-17
5. Ketones and Aldehydes	Ch. 18
6. Amines	Ch. 19
7. Carboxylic Acids and Derivatives	Ch. 20-21

Tentative Lecture Schedule *

	Date	Chapter	Topic
Aug.	17 (M)	8	Review of reactions of Alkenes
	19 (W)	8	
	21 (F) Q1	8	
	24 (M)	8	
	26 (W)	9	Alkynes
	28 (F) Q2	9	
	31 (M)	9	
Sept.	2 (W)	10	Structure and Synthesis of Alcohols
	4 (F) Q3	10	
	7 (M)		LABOR DAY HOLIDAY
	9 (W)	10	
	11 (F)		Exam I (Chap. 8, 9, 10)
	14 (M)	11	Reaction of Alcohols
	16 (W)	11	
	18 (F) Q4	11	
	21 (M)	14	Ethers, Epoxides and Sulfides
	23 (W)	14	
	25 (F) Q5	14	
	28 (M)	14	
	30 (W)	15	Conjugated Systems
	Oct.	2 (F) Q6	15
5 (M)		15	
7 (W)		15	
9 (F)			Exam II (Chap. 11, and 14, 15)
12 (M)			FALL BREAK/COLUMBUS DAY
14 (W)		16	Aromatic Compounds
16 (F) Q7		16	
19 (M)		16	
21 (W)		16	
23 (F) Q8		17	Reactions of Aromatic Compounds
26 (M)		17	
28 (W)		17	
30 (F) Q9		17	
Nov.	2 (M)	18	Ketones and Aldehydes
	4 (W)	18	
	6 (F)		Exam III (Chap. 16, 17, 18)
	9 (M)	18	
	11 (W)	18	
	13 (F) Q10	19	Amines
	16 (M)	19	
	18 (W)	19	
	20 (F)	19	
	23 (M)		Exam IV (Chap. 18, 19)
	25-27 (W-F)		THANKSGIVING HOLIDAY
30 (M)	20	Carboxylic Acids	
Dec.	2 (W)	21	Carboxylic Acids derivatives
	3-4 (R-F)		Study days

Final Exam: Monday, Dec. 7, 8:00 - 10:00 a.m.!!
(No exceptions – Plan accordingly)

* Additional review sessions will be scheduled throughout the semester.

Assigned Problems

All problems within the chapter should be used for review. Assigned homework will be selected from the end of each chapter. The first question, which is usually about definitions of terms, should be reviewed but need not be handed in. Please note that some changes may have to be made to following to better suit the contents of the lectures.

Chapter 8	47, 48, 49, 50 (a,b,c,g,h,i,j,k,l), 58, 59, 64, 70
Chapter 9	27(a,b,f,h,k), 28(a,d), 29 (b,c), 33, 34, 35, 36 (a,b,f), 37 (a,b,c,d,g,h), 40
Chapter 10	31(a,e,f), 33(a,e,h), 37, 38(a,f,g,i,j,n), 40, 43(b,d,e), 49
Chapter 11	40, 41, 42, 43(b,d), 48(a,d,e,h), 53
Chapter 14	30(a,b,d,h), 32 (a,c,d,e), 33, 37, 38, 39
Chapter 15	24, 25, 27, 29, 30(a,c,d,e), 33(a,c,e,f)
Chapter 16	27(a,b,e,g), 28(a,c,g), 29, 32, 33, 34
Chapter 17	44, 45, 46, 47, 48, 49, 57
Chapter 18	39(a,c,d,h,k), 40, 41, 49(a,c,d,h), 50(a,c,d),51(a,b,f,h),52(a,b,c), 56(a,b,c,f,l) 66,70
Chapter 19	36(a,b), 37, 38, 39, 41, 42, 44(a,c,g), 46(a), 51(a)
Chapter 20	26, 35, 36, 40, 47
Chapter 21	44, 48(a,b,c,d), 49(a,b,d), 50, 57(b,d), 66
Chapter 22	61, 63, 64, 65(a,c), 67(a,c), 68(a,c,e), 70, 71(b), 73(a,c,d)
Chapter 23	53, 54, 55, 63
Chapter 24	33, 34(a,b,e), 37, 42