

FINGER LAKES COMMUNITY COLLEGE
CHM 212-01 : Organic Chemistry II
Dr. Robert O. Kalbach
Spring 2007

Classroom C322, MF 2:00-3:50 p.m., & Laboratory C318, Wednesdays 2:00-3:50 a.m.
Office: C319 (394-3500 ext 7320) Office Hours: As Posted & By Appointment
kalbacro@flcc.edu

TEXTS

1. Paula Yurkanis Bruice, *Organic Chemistry*, 5E 2007, Prentice Hall, New Jersey
2. A Lecture/Homework/Laboratory Notebook(s)
3. Periodic Table & Computer Disks

PREREQUISITES

CHM 122 with a Grade of C or better

CHAPTER OUTLINE

Date	Chapter / Title
M 1/29	Welcome to Organic II
W 1/31	<i>Laboratory Safety & Sign-In</i>
F 2/2	Chapter 9 – Elimination Reactions of Alkyl Halides
M 2/5	Chapter 9
W 2/7	<i>Pavia – Ethanol & Soap</i>
F 2/9	Chapter 9
M 2/12	Chapter 10 – Reactions of Alcohols, Amines, Ethers, and more ...
W 2/14	<i>Pavia – Hydrolysis of Methyl Salicylate</i>
F 2/16	Chapter 10
M 2/19	Chapter 11 – Radicals – Reactions of Alkanes
W 2/21	<i>Test Review</i>
F 2/23	Test 1 Chapters 9 – 11
M 2/26	Chapter 12 – Mass Spectrometry, Infrared and UV-Visible Spectroscopy
W 2/28	<i>Acetaminophen</i>
F 3/2	Chapter 12 – MS
M 3/5	Chapter 12 – IR
W 3/7	<i>Pavia – Reactivities of Some Alkyl Halides</i>
F 3/9	Chapter 12 – UV/vis
M 3/12	Chapter 13 – NMR Spectroscopy
W 3/14	<i>Pavia – Benzocaine</i>
F 3/16	Chapter 13 – NMR
MTWRF	March 19-24 Spring Break Week – College Closed
M 3/26	Test Review
W 3/28	<i>Pavia – n-Butyl Bromide</i>
F 3/30	Test 2
M 4/2	
W 4/4	<i>4-Methylcyclohexane</i>
F 4/6	Good Friday – College Closed

M 4/9	
W 4/11	<i>Pavia – Benzilic Acid</i>
F 4/13	
M 4/16	
W 4/18	<i>Pavia – p-Aminobenzilic Acid</i>
F 4/20	
M 4/23	Chapter 14
W 4/25	Test Review
F 4/27	Test 3
M 4/30	
W 5/2	<i>Polyesters & Polyamides</i>
F 5/4	
M 5/7	
W 5/9	<i>Laboratory Check-out</i>
F 5/11	
M 5/14	Course Review
W 5/16	Final Exam
F 5/18	Course Review

Attendance

You are expected to attend - *and be on time* - for all classes and laboratories.

<u>Grade Distribution</u>		<u>Relative Grading Scale %</u>
3 Tests + FINAL	80%	A (100-90.6)
Laboratory Reports	<u>20%</u>	B ⁺ (90.5-87.6) B (87.5-79.6)
	100%	C ⁺ (79.5-77.6) C (77.5-68.6)
		D ⁺ (68.5-66.6) D (66.5-60.0)
		F ≤ 59.9

There are no make-up tests or laboratory experiments. The FINAL is mandatory. Should you miss one of the first three tests, for whatever reason, the FINAL will be used to replace that test. Should you miss a second test for a valid reason, supported with written documentation to the satisfaction of your professor, then arrangements will be made for a make-up test. Automotive failure is not an acceptable excuse. The three tests and the FINAL will make up 80% of your grade. Please turn your **cell-phone off** in the classroom.

Class Notes

Be prepared for class. Read the textbook and keep a class notebook. I will discuss material that is not in the book, therefore class notes are very important. The class notes will reinforce the textbook, and the textbook will reinforce the class. Time restraints will not allow a discussion of everything in the book, *therefore outside reading is very important*. Learning is more than just reproducing what you were told in the classroom. Aim for a greater command of the material, especially the ability to apply what you have learned to new situations whenever

relevant. General chemistry covers a lot of material, not all of which can be covered in class, therefore class time is at a premium, and it must be used efficiently.

Exams may include multiple choice, matching, fill in the blank, problems, and essay questions. Exam questions will reflect material that was covered in class, as well as the textbook. The following questions are unacceptable: 1) Will this be on the test? 2) Is today's class important?

You cannot be "taught" everything in the classroom. **It is your responsibility to learn the material.** Most learning takes place **outside** of the classroom. Read the appropriate section(s) of the book **before** the material is presented in class. Then the class will make more sense. If you haven't read the book beforehand, try to learn what you can from the class. Absorb the general ideas, while taking thorough notes. Sort it out later, while studying from the book outside of class. If you must miss a class, get notes from a friend in the class. If you don't know anyone in the class, make a friend before the semester ends.

Chemistry does require some memorization, but the real objective is to learn the concepts and theories. Rote memorization will NOT get you through the course.

Laboratory

The experiments illustrate general concepts and theories. However, they will sometimes be performed in the laboratory, before being discussed in class. A brief explanation of the laboratory will be given before each experiment. Students will work in teams of two. Generally, the work can be sub-divided, so that both partners are not doing all of the same tasks in each experiment. Each partner will turn in his or her individual report. It should be neat and complete.

You are expected to complete as much of the laboratory work as possible before lab class, and then **complete the experiment and lab report during the scheduled laboratory class.** If you miss a laboratory class, for any reason, you will NOT have an opportunity to make it up.

Any student who has a documented learning disability or handicap may be eligible to receive assistance from the College in completing class assignments. Please contact me by the third class meeting, if you have a learning disability/handicap. Additional information is available by contacting the Director of the Student Health Center at (585) 394-3500, ext 7297; the Chairperson of the Developmental Studies Department at (585) 394-3500, ext 7392; or the Coordinator of Services for Students with Learning Disabilities at (585) 394-3500, ext 7390.

Spring 2007
Organic Chemistry II Laboratory Schedule

WEDNESDAYS

Dress appropriately and **always wear protective eyewear in the laboratory**. If you do not wear protective eyewear you will be dismissed from the laboratory and will receive a zero for that experiment.

Week	Date	Exp #	Title
1.	1/31	♣	Laboratory Safety and Sign-In
2.	2/7	7 & 14	Pavia – Ethanol & Soap
3.	2/14	11	Pavia – Hydrolysis of Methyl Salicylate
4.	2/21	?	Test Review
5.	2/28	4	Pavia – Acetaminophen
6.	3/7	22	Pavia – Reactivities of Some Alkyl Halides
7.	3/14	45	Pavia – Benzocaine
8.	3/21	§	Spring Break Week – College Closed
9.	3/28	23A	Pavia – n-Butyl Bromide
10.	4/4	27	4-Methylcyclohexane
11.	4/11	42	Benzilic Acid
12.	4/18	44	<i>p</i> -Aminobenzoic Acid
13.	4/25	§	Test Review
14.	5/2	56A & B	Polyesters & Polyamides
15.	5/9	§	Laboratory Check-out
16.	5/16	§	FINAL Comprehensive

Completion of the laboratories, and the laboratory reports, is a requirement for the course.
Class Schedule & Experiments are Subject to Change