

# Organic Chemistry II Lecture and Drill

Syllabus for the Fall Semester of 2009 (issued 08/24/2009)  
CHEM 2220 (3 Semester Hours) & 2220D (0 Semester Hours)

Course	Class Time/Day	Location	Instructor	Office	Phone
CHEM 2220.01	9:25 - 10:40p.m./TR	36-105	Dr. Warren J. Ray, Jr.	37-338	520-7383
CHEM 2220DR	Sect 01 - M 10:00 - 11:50a	37-273	Dr. Warren J. Ray, Jr.	37-338	520-7383
	Sect 02 - R 3:15 - 5:05p	37-273	Dr. Warren J. Ray, Jr.	37-338	520-7383
	Sect 02 - M 1:00 - 2:50p	37-273	Dr. Warren J. Ray, Jr.	37-338	520-7383

## Office Hours and e-mail addresses:

Dr. Ray: M, 12:00 - 1:00PM; T, 11:00 - 1:00PM; W, 1:00 - 2:00; R, 11:00 - 12:00PM;  
wjray@xula.edu

These schedules, especially office hours, are subject to last minute changes as mandatory meetings are scheduled; occasionally faculty schedules also change. Your instructor will notify you of any changes that affect your section, and we will attempt to keep the web site version of this syllabus up to date at <http://www.xula.edu/chemistry/department/now/C2220.pdf>. If your schedule conflicts with your instructor's office hours, please make an appointment with him/her. Alternatively, you can see another instructor. Also, feel free to consult your instructor using e-mail.

## Course Description:

Introduction to the structural theories, physical and chemical behavior, synthesis, reaction mechanisms, and identification of compounds composed primarily of carbon and hydrogen. Students who complete the course will become familiar with the large body of information required before the chemistry of living systems (biochemistry and molecular biology) can be studied. The critical thinking skills needed to apply this information to a wide variety of problems, both professional and societal, are strongly developed. Prerequisites: CHEM 2210/2210D

## Required Materials:

**Text:** T. W. G. Solomons and C. B. Fryhle, Organic Chemistry, 9th edition; John Wiley & Sons, New York, 2006. Other recent additions are also acceptable. The accompanying *Study Guide* is optional; a copy will be on reserve in the library. The text, the required student manual, and other materials should be available from the Xavier bookstore.

**Student Manual:** Sevenair, John P., et. al. ; *Organic Chemistry Student Manual*; Xavier University of Louisiana, New Orleans, 5<sup>th</sup> edition, 2007. Additional practice hour exams and finals with keys to the second of the two sample drill tests, the second of two sample hour exams, and the sample final in the *Organic Chemistry Student Manual* are given on the Chemistry Department web site. The index to these materials is: <http://www.xula.edu/chemistry/department/organic/orgo.html>.

**Model set:** You will need a set of molecular models suitable for Organic Chemistry. If you bought the set required for General Chemistry at Xavier, it will be satisfactory, however there is another set also available in the bookstore that is more suitable for making organic structures. If you have a different set, show it to your instructor and he will let you know if it is OK.

**Vocabulary cards:** *English I Vocabulary Cards*. They should be available in the bookstore.

A blank copy of the *Organic Chemistry Student Manual*, keys to some of the tests in the Student Manual, some old hour exams and final exams, and other materials can be found on the Xavier web site. See <http://www.xula.edu/chemistry/department/organic/orgo.html>.

### Supplemental Materials

In addition to the *Study Guide and Solutions Manual* mentioned in the previous section, you may also want to consult a textbook by another author occasionally. In some cases, you may find that you can understand the discussion of a topic in another textbook better. The following are some current or recent texts that you may wish to consult. Many of them have been through several editions, any one of which will do. Almost all of them are titled *Organic Chemistry*, so they are listed here by the authors' names only: Jones, Morrison and Boyd, Wade, McMurry, Loudon, Carey, Schmid, Fox and Whitesell, Streitwieser and Heathcock, Fessenden and Fessenden, and Ege. A number of these organic chemistry texts are available in the library. In many cases, these authors and others have also written shorter textbooks for one-semester courses. The shorter texts may help you begin to understand certain topics, but their coverage of most topics is not as complete as you need for this course. (If the book is much thinner than Solomons, beware.)

### Course Objectives

These are set out in a general way in the "Course Description" section above. More specific objectives can be found in the *Organic Chemistry Student Manual* at the beginning of each section.

### Course Requirements

There will be two hour exams ("review tests"), nine drill tests, twelve vocabulary quizzes, a final exam, homework assignments and some other exercises, including pop quizzes. Homework assignments must be turned in on time. Late assignments will not be accepted. **All exams, tests, and quizzes are taken without the aid of books, notes, or other study materials**; the instructor may allow the use of molecular models. You must arrive on time for each test. Students who arrive after any other student has left will not be allowed to take the test. You may not leave the room without your instructor's permission once a review test or the final exam has been handed out, and this permission will be granted only in case of emergency. See the statement in the next section regarding cheating.

Under ordinary circumstances, **no makeup exams are given and none are given in faculty offices**. You must take your drill test with your drill section. If you miss one drill test, your grade for that test is zero, and it will drop as your lowest grade. If you miss any additional drill tests because of a documented emergency you may make up the test in another section with the permission of the instructor. A drill test missed because of a documented emergency may be prorated. *All of these adjustments are made at your drill instructor's discretion.* **No makeup exams of any kind will be given after the exams have been handed back; no make up exams will be given during office hours.** If you miss a second or higher drill test, or any review test, the emergency must be serious, and it must be documented. Missed lecture quizzes **cannot be made up**.

Cell phones, beepers, and other electronic communication devices **MUST** be turned off (or to "vibrate") during all class periods. The wearing of headphones in lecture and drill classes is also prohibited.

### Examination and Grading Procedures

During exams and drill tests, only pencils, erasers, and pens will be allowed on desktops and laptops. If a test includes numerical problems, **non-programmable calculators ONLY** may also be used. Cell phones with calculators and any other calculators with communications ability are forbidden. The instructor may permit the use of molecular models on certain tests. All other items must be put on the floor or away from the student's desk. The wearing of caps is not permitted during exams. **For multiple choice tests, the answer given on the Scantron sheet is the one that counts—NO EXCEPTIONS.**

Each drill test is worth 50 points; the lowest drill grade will be dropped. Hour exams are worth 100 points each. **The final is worth 200 points and is cumulative and comprehensive over BOTH semesters.** Vocabulary quizzes are worth 5 points. There will be 100 additional points available from various activities: 20 from the first drill exercise (“Reaction Review”), 60 points from quizzes given in lecture and 20 points from the Biochemistry lecture quiz given in the last lecture period. Other exercises, assignments, quizzes, etc. may be given in lecture and/or drill at the instructor’s discretion and the total points will be adjusted accordingly. The grading scale will be no stricter than the following:

Points	Grade
90% and higher	A
80-89%	B
70-79%	C
60-69%	D
59% or lower	F

This scale may be adjusted. **Do not, however, count on there being a curve.**

### Academic Integrity

The following is quoted from the Xavier University Faculty Handbook:

“If a student's test, examination paper, laboratory report, term paper, or other written assignment gives evidence of not being completely his/her own work, he/she may be given an F for the course. A student who communicates with anyone during the course of an examination or test, unless with the permission of the instructor, may be immediately dismissed from the room and given an F. Such communication includes attempt to read from another's paper. If a student is found to have brought study materials into the examination room without the instructor's permission, it may be assumed that he/she intended to use such materials unlawfully, and he/she may be penalized accordingly.”

### Schedules

The following pages give an overview of the lecture and drill schedules. The first ten vocabulary quizzes cover 40 cards each and the last two cover 50 cards each, as listed below.

1: 501-540	4: 621-660	7: 741 - 780	10: 861 - 900
2: 541-580	5: 661-700	8: 781 - 820	11: 901 - 950
3: 581-620	6: 701 - 740	9: 821 - 860	12: 951 - 1000

**Final Exam Schedule:** Final exams are given at times dictated by the scheduled time of your lecture; the drill sections have no finals of their own. The lecture final will be given on Thursday, December 10, 2009 at 10:30 a.m. in the room 36-105. **The final exam must be taken at the scheduled time.** Please plan accordingly.

**In Case Of Evacuation:** Check your e-mail, check the Xavier University and Chemistry Department web sites and consult Blackboard.

## Lecture Schedule

<b>Tuesday</b>	<b>Thursday</b>
Aug 25 Ch 9	Aug 27 Ch 9
Sept 1 Ch 9	Sept 3 Ch 9 - Ch 12
Sept 8 Ch 12	Sept 10 Ch 12
Sept 15 Ch 13	Sept 17 Ch 13
Sept 22 Ch 13 & 14	Sept 24 Ch 14
Sept 29 Ch 14	Oct 1 Ch 15
Oct 6 <b>First Exam</b>	Oct 8 Ch 15
Oct 13 <b>Fall Break</b>	Oct 15 Ch 15 & 16
Oct 20 Ch 16	Oct 22 Ch 16
Oct 27 Ch 18	Oct 29 Ch 18
Nov 3 Ch 18 & Ch 20	Nov 5 Ch 20
Nov 10 Ch 20	Nov 12 Selected Topics
Nov 17 <b>Second Exam</b>	Nov 19 Selected Topics
Nov 24 Selected Topics - Biochemistry	Nov 26 <b>Thanksgiving Holiday</b>
Dec 1 Biochemistry	Dec 3 <b>Biochemistry Quiz</b>
Dec 8	Dec 10 <b>Final Examination (10:30 a.m.)</b>



## Drill Schedule

<b>Monday</b>	<b>Thursday</b>
Aug 24 Orientation/Work Session	Aug 27 Orientation/Work Session
Aug 31 V1, Reaction Review	Sept 3 V1, Reaction Review
Sept 7 <b>Labor Day Holiday</b>	Sept 10 V2, Ch 9
Sept 14 V2, Ch 9	Sept 17 V3, Ch 12
Sept 21 V3, Ch 12	Sept 24 V4, Ch 13
Sept 28 V4, Ch 13	Oct 1 <b>V5, Exam Review</b>
Oct 5 V5, Ch 14	Oct 8 V6, Ch 14
Oct 12 <b>Fall Break</b>	Oct 15 Work Session
Oct 19 V6, Work Session	Oct 22 V7, Ch 15
Oct 26 V7, Ch 15	Oct 29 V8, Ch 16
Nov 2 V8, Ch 16	Nov 5 V9, Ch 18
Nov 9 V9, Ch 18	Nov 12 <b>V10, Exam Review</b>
Nov 16 <b>V10, Exam Review</b>	Nov 19 V11, Ch 20
Nov 23 V11, Ch 20	Nov 26 <b>Thanksgiving Holiday</b>
Nov 30 V12, Selected Topics	Dec 3 V12, Selected Topics
<b>CHEM 2220 - ORGANIC CHEMISTRY LECTURE FINAL EXAM THURSDAY, DECEMBER 10, 2009 - 10:30 A.M.</b>	