

# Organic Chemistry II lecture and drill

Xavier University of Louisiana

Syllabus for the Spring Semester of 2012 (issued 01/09/12)

CHEM 2220 / 2220D, all sections – 3 / 0 Semester Hours

## Schedule of Classes: Lectures

Sec	Days	Time	Place	Instructor	Office	Telephone
01	MWF	11:00-11:50	36-105	Dr. Kathleen Morgan	37-342	520-5252
03	MWF	2:00-2:50	36-173	Dr. Galina Goloverda	36-321	520-5417
04	TR	1:15-2:30	36-105	Dr. Stassi DiMaggio	36-301J	520-5706

## Schedule of Classes: Drills

Section	Day	Time	Place	Instructor	Office	Telephone
01	M	3:00 - 4:50	37-273	Dr. Florastina Payton Stewart	36-311	520-7381
02	T	1:15 - 3:05	37-273	Dr. Hua Mei	36-301L	520-5408
03	T	3:15 - 5:05	37-273	Dr. Florastina Payton Stewart	36-311	520-7381
05	W	10:00-11:50	37-269	Dr. Stassi DiMaggio	36-301J	520-5706
06	W	3:00 - 4:50	37-273	Dr. Kathleen Morgan	37-342	520-5252
07	R	1:15 - 3:05	37-273	Dr. Hua Mei	36-301L	520-5408
08	R	3:15 - 5:05	37-273	Dr. Galina Goloverda	36-321	520-5417
09	W	1:00 - 2:50	37-273	Dr. Florastina Payton-Stewart	36-311	520-7381
10	T	9:25 - 11:15	37-273	Dr. Kathleen Morgan	37-342	520-5252

## Office hours and e-mail addresses:

Dr. Stassi DiMaggio: M 11AM-noon; W 9-10AM; R 2:30-4:30PM; [scdimagg@xula.edu](mailto:scdimagg@xula.edu)

Dr. Galina Goloverda: T 1:30-3:30PM; R 1:30-2:30PM; F 9:30-11:30AM; [gzglolove@xula.edu](mailto:gzglolove@xula.edu)

Dr. Hua Mei: TR 9-10:30AM; F 1-3PM; [hmei@xula.edu](mailto:hmei@xula.edu)

Dr. Kathleen Morgan: M 3-4P; T 8:15-9:15A; W 1:30-2:30P; F 9-10A; [kmmorgan@xula.edu](mailto:kmmorgan@xula.edu)

Dr. Florastina Payton-Stewart: M 8:30-10:30AM; T 1-3PM; W 9-10AM; [flpayton@xula.edu](mailto:flpayton@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. 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. The web version of this syllabus will be kept updated at: <http://www.xula.edu/chemistry/documents/syllabi/C2220.pdf>

**Organic tutoring center:** Peer tutors are available at no charge in the Organic Tutoring Center, located at the end of the hall by the Organic Chem labs on the 3rd floor of the NCF annex. If you encounter problems with tutors or the center, please contact Dr. DiMaggio.

### **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: C or better in CHEM 2210 and 2210D.

Text: David Klein; *Organic Chemistry*, 1st edition; John Wiley & Sons, New York, 2011. Other recent Organic Chemistry books may be acceptable, but you will be missing out if you do not have the Klein book; a few copies of Klein are on reserve in the library. The accompanying Study Guide is optional. The text, the required student manual (see below), 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, 6<sup>th</sup> ed., 2011. Additional practice hour exams and finals with keys, and keys to the second of the two sample drill tests, the second of two sample hour exams, and the sample final in this manual are given on the Chemistry Department web site. The index to these materials is: <http://www.xula.edu/chemistry/crs-orgleclab.php>

Model set: You will need a set of molecular models suitable for Organic Chemistry. The Darling Models ([www.darlingmodels.com](http://www.darlingmodels.com)) are good; order Kit 3. It should be available in the bookstore. The set required for General Chemistry at Xavier is only marginally useful. If you have a different set, show it to your instructor and he/she 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/crs-orgleclab.php>

### **Supplemental Materials**

In addition to the Study Guide 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: Solomons, Jones, Bruice, Smith, Wade, McMurry, Loudon, Carey, Schmid, Fox and Whitesell, Fessenden and Fessenden, and Ege. A number of these organic chemistry texts are available in the Xavier 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 may not be as complete as you need for this course. Many students find Kline's "Organic Chemistry as a Second Language" book useful (ISBN 978-0-470-12929-6).

## **Course Objectives**

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

## **Course Requirements**

Attendance is taken in lectures by card reader only. There will be nine drill tests (the lowest is dropped), twelve vocabulary quizzes (the lowest is dropped), two hour exams, a final exam, and some other exercises. All exams, tests, and quizzes are taken without the aid of books, notes, or other study materials, except that instructors may allow the use of molecular models or calculators (see below). You must arrive on time for each test. Students who arrive after any other student has left will not be allowed to take that test. For the final exam and hour exams you may not leave the room without your instructor's permission once the exam has been handed out, and this permission will be granted only in case of emergency. See also the statement in the next section regarding cheating.

No makeup exams are given under ordinary circumstances; you must take drill tests 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 instructors of both sections. There may be a penalty, and if the section is taught by a drill instructor different from your own, grades may be adjusted based on the class average of the test taken. A drill test not taken 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 makeup exams or drills will be given during office hours. If you miss a second or higher drill test the emergency must be serious, and it must be documented.

Cell phones, beepers, and other electronic communication devices **MUST** be turned off and removed from your desktop during all class periods. The use or possession of any unapproved electronic device during a quiz or test is strictly forbidden, and will be considered as cheating.

The University Catalog (2010-2012, p. 37) states: "In the College of Arts and Sciences, in order for a student to repeat a course more than once, there must be written permission of the student's departmental advisor or chair and the chair of the department in which the course is offered."

## **Examinations and Grading Procedures**

During exams and drill tests, only pencils, erasers, and pens will be allowed on desktops and laps. If a test includes numerical problems, non-programmable calculators **ONLY** may also be used. Cell phones must be off (not on vibrate) and put away; calculators with communications capability are forbidden. Molecular models may be used if your instructor allows it. All other items must be put on the floor or away from the student's desk. For multiple choice tests, the answer given on the Scantron sheet is the one that counts--no exceptions.

Each of the 9 drill tests is worth 50 points; the lowest drill grade will be dropped. The hour exams are worth 100 points each; the final is worth 200 points and is comprehensive over the year. Vocabulary quizzes are worth 5 points each; the lowest will be dropped. There will be 100

additional points available from other activities: 10 points from the reaction review drill, 20 points from the synthesis drill, 10 points from the drill exercise, 40 points from quizzes given in lecture, and 20 from the Biochemistry quiz given in the last lecture. 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. Some instructors give harder drill quizzes than others, and the scales in these sections are adjusted to accommodate that fact. Do not 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.”

Cheating is absolutely not tolerated. In cases where cheating on any activity has clearly been demonstrated, the student will receive an F in the course.

Students may only record (video, audio, photograph, etc) a lecture with permission from the instructor, at the discretion of the instructor. This recording may only be used by the student, and may not be posted anywhere on the internet or otherwise shared or distributed.

**In the event of evacuation** students will be informed of class expectations by e-mail and/or the Blackboard website. It is the student's responsibility to check this website and his/her Xavier e-mail account for information.

### 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:** All students taking Chemistry 2220 will take the exam at the same time, Monday May 7 at 10:30AM. You will be instructed at a later date what room to report to.

## Lecture and Drill Schedule, Chem 2220, Spring 2012

<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
Jan 9 L: NMR D: Rxn Rev	Jan 10 L: NMR D: Rxn Rev	Jan 11 L: NMR D: Rxn Rev	Jan 12 L: NMR D: Rxn Rev	Jan 13 L: NMR
Jan 16 Martin Luther King Jr. Holiday	Jan 17 L: NMR D: review	Jan 18 L: NMR D: V1, Synthesis	Jan 19 L: Ch 13, 14 D: V1, Synthesis	Jan 20 L: Ch 13, 14
Jan 23 L: Ch 13, 14 D: V1, Synthesis	Jan 24 L: Ch 13, 14 D: V1, Synthesis	Jan 25 L: Ch 13, 14 D: V2, NMR	Jan 26 L: Ch 13, 14 D: V2, NMR	Jan 27 L: Ch 13, 14
Jan 30 L: Ch 13, 14 D: V2, NMR	Jan 31 L: Ch 13, 14 D: V2, NMR	Feb 1 L: Ch 17 D: V3, Ch 13, 14	Feb 2 L: Ch 17 D: V3, Ch 13, 14	Feb 3 L: Ch 17
Feb 6 L: Ch 17 D: V3, Ch 13, 14	Feb 7 L: Ch 17 D: V3, Ch 13, 14	Feb 8 L: Ch 18 D: V4, Ch 17	Feb 9 L: Ch 18 D: V4, Ch 17	Feb 10 L: Ch 18
Feb 13 L: Ch 18 D: V4, Ch 17	Feb 14 L: Ch 18 D: V4, Ch 17	Feb 15 L: Ch 19, 23.11 D: V5, review	Feb 16 L: Ch 19, 23.11 D: V5, review	Feb 17 L: Ch 19, 23.11
Feb 20 Mardi Gras	Feb 21 Mardi Gras	Feb 22 Mardi Gras	Feb 23 L: Hour Exam D: review	Feb 24 L: Hour Exam
Feb 27 L: Ch 19, 23.11 D: V5, Ch 18	Feb 28 L: Ch 19, 23.11 D: V5, Ch 18	Feb 29 L: Ch 19, 23.11 D: V6, Ch 18	Mar 1 L: Ch 19, 23.11 D: V6, Ch 18	Mar 2 L: Ch 19, 23.11
Mar 5 L: Ch 20 D: V6, Ch 19	Mar 6 L: Ch 20 D: V6, Ch 19	Mar 7 L: Ch 20 D: V7, Ch 19	Mar 8 L: Ch 20 D: V7, Ch 19	Mar 9 L: Ch 20
Mar 12 L: Ch 20 D: V7, Exercise	Mar 13 L: Ch 21 D: V7, Exercise	Mar 14 L: Ch 21 D: V8, Exercise	Mar 15 L: Ch 21 D: V8, Exercise	Mar 16 L: Ch 21
Mar 19 L: Ch 21 D: V8, Ch 20	Mar 20 L: Ch 21 D: V8, Ch 20	Mar 21 L: Ch 21 D: V9, Ch 20	Mar 22 L: Ch 22 D: V9, Ch 20	Mar 23 L: Ch 22
Mar 26 L: Hour Exam D: V9, review	Mar 27 L: Hour Exam D: V9, review	Mar 28 L: Ch 22 D: V10, Ch 21	Mar 29 L: Ch 22 D: V10, Ch 21	Mar 30 L: Ch 22
April 2 Spring Break	April 3 Spring Break	April 4 Spring Break	April 5 Spring Break	April 6 Spring Break
Apr 9 L: Ch 22 D: V10, Ch 21	Apr 10 L: Ch 22 D: V10, Ch 21	Apr 11 L: Ch 23 D: V11, Ch 22	Apr 12 L: Ch 23 D: V11, Ch 22	Apr 13 L: Ch 23
Apr 16 L: Ch 23 D: V11, Ch 22	Apr 17 L: Ch 23 D: V11, Ch 22	Apr 18 L: Ch 23 D: V12, Ch 23	Apr 19 L: Biochem D: V12, Ch 23	Apr 20 L: Biochem
Apr 23 L: Biochem D: V12, Ch 23	Apr 24 L: Biochem D: V12, Ch 23	Apr 25 L: Biochem D: review	Apr 26 L: Biochem* D: review	Apr 27 L: Biochem*
Apr 30 L, D: review	May 1 Quiet Day			

\* 20-point quizzes on Biochemistry topics in these lecture sessions.