

## ORGANIC CHEMISTRY II (CHE 232-001) Spring 2009

**Meeting Times:** MWF 12:00 – 12:50 AM, CP-139. Attendance is mandatory.

**Instructor:** Folami T. Ladipo

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**Office Hours:** MWF 11:00 -11:50 AM. You may also make an appointment for a particular time.

### **Important Dates:**

January 19 - Martin Luther King Birthday – Academic Holiday

January 19 - Last day to add class

February 4 - Last day to drop with no record

March 9 - Middle of term

March 16-21 No Class (Spring Break)

April 3 - Last day to withdraw

### **Course Description**

This course is the second part of a two-part introduction to the principles of organic chemistry, the chemistry of the compounds of carbon. The content can be classified as *structure, reactivity, and synthesis*. You will learn how atoms are joined together in organic compounds, how their structure affects their bulk properties, how we can gain information about the structure of unknown organic compounds, and how organic compounds are transformed into other organic compounds.

### **Course Material**

#### Required Text

The required textbook for this course is Organic Chemistry, 2nd ed. by Janice Gorzynski Smith. A set of Framework Molecular Models is also required.

#### Optional Texts

The Study Guide and Solutions Manual for Smith is strongly recommended.

*Pushing Electrons*, 3rd ed., by Daniel P. Weeks.

#### Course Coverage (Tentative)

Chapters 13 through 25 will be covered

### **Examinations**

- Exam 1: Wednesday, February 11, in class
- Exam 2: Wednesday, March 11, in class
- Exam 3: Wednesday, April 15, in class
- Final exam: Wednesday, May 06, 1:00–3:00 PM

You may bring neither your molecular model kit nor a calculator to the exams. **All exams are cumulative.** Any subject covered on an earlier exam may reappear unexpectedly on any later exam.

### Grading Policy

Each of the in-class exams will contribute 23% to your final grade and the [electronic homework](#) will contribute 8%. There will be no other graded assignments, but it is *strongly* advised that all students work problems from the book and any other randomly assigned problem sets in order to test their own understanding of the course material.

Final assignment of letter grades will be based on the following schedule:

A= 80+,

B= 65-79

C= 50-64

D= 40-50

E = <40

I reserve the right to raise or lower these divisions depending on where breaks in the distribution occur. Grades are assigned on the basis of student performance, not proportions; in other words, students are not competing against each other for grades, and I am quite happy to give most of the class A's and B's if the class has earned them.

If for some reason you have an academic conflict with any of these exam times, you must notify me within the first two weeks of the term. In accordance with University procedures, you must provide written notice, and this must be done for each exam with which you have a conflict. If a student misses an exam and has a documented, excused absence that conforms to the University Senate Rules. The documents must be presented within a week of the missed exam. The student shall take the make-up exam within two weeks of the missed exam or the student will have three exam scores for the semester instead of four. Hence their final exam will count for 46% of their grade instead of 23%. Remember, all exams are cumulative; if you miss one exam, it doesn't mean that you don't have to learn the material. Students who miss two or more exams or the final exam for any reason will receive an "E" unless the dean of their college permits them to withdraw. Students who miss an exam without an excuse will receive a zero for that exam at my discretion. If you miss an exam for any reason, even an undocumented one, please discuss the circumstances with me.

All exams will be returned to you after they have been graded. Please check them over for addition mistakes. If you were marked down for an answer that you think was correct, submit it to me with a brief written argument. Oral requests for regrading will not be entertained. Requests for regrading must be received within one week of the return date. A student who has changed an answer and presented it for regrading has cheated. He or she will accordingly receive an E in the class (the minimum punishment) and may be subject to further disciplinary action. In order to remove any temptation to do this, some exams will be photocopied before they are returned.

### Problem Sets

### **Online Homework (ACE Organic)**

In collaboration with some UK computer scientists and the publisher Prentice-Hall, Professor Grossman has developed a new Web-based organic chemistry homework program called [ACE Organic](#). This program asks you to draw organic structures in response to a question. If your answer is incorrect, you are given some feedback, but you are not told the correct answer. You need to keep trying until you get the right answer.

Your performance on the electronic homework problems (percentage of problems answered correctly, excluding the tutorials) will contribute 8% to your overall grade. Feel free to ask for help from me on any problems. Problems from the electronic homework have a very peculiar way of making their way onto exams. Generally, students have found it most useful to do the ACE problems early and then to focus on the textbook problems closer to exam time. We will be using the [Prentice-Hall installation of ACE](#) (hereafter ACE@PH), not the UK installation, which has a different URL. Further information on accessing ACE will be provided.

### **Traditional Homework**

In addition to the ACE assignments, problems from the book or otherwise will be assigned, but they will neither be collected nor graded. Answers to homework problems are available in the Study Guide and Solutions Manual, or at the class website. Even though I will not be collecting or grading the traditional homework, you are strongly encouraged to do it. I design exams around the problems I assign.

### **Academic Integrity**

Academic integrity is covered in the "Student Rights and Responsibilities" handbook which all of you should have received (if not, consult the chemistry office). Possible penalties for academic offenses (cheating on exams etc.) range from an "E" for the course (the minimum penalty) to expulsion from the University.

### **General Note**

Learning is an interactive process. If I have not made a point clear it is your responsibility to let me know. Do not be afraid to ask questions. Classroom participation is a key element in this class and can influence your grade. Do not hesitate to tell me if you need me to speak louder.

### **More on Examinations**

A seating chart will be posted before each exam. Please arrive at your assigned room and be in your seat at least 5 minutes before the beginning of the exams, which are given *in class*.

**Be prepared to show your student identification (or other photo ID) at the exams.** The exams will emphasize material covered since the last exam, but since new chemistry builds on old chemistry, command of the older material will be necessary. *All exams are cumulative.*

### **Advice for successful completion of this course**

1) Attend every lecture. You're paying for it already, and in the lecture will be presented material and novel approaches to topics that do not appear elsewhere.