

CHEM 2411; Organic Chemistry (Part 1)

Fall 2007, M,W,F: 11.00 am – 11.50 am

Instructor: *Dr. Anne Gaquere*: Office: TLC 2-119; Phone: (678) 839-6026; email: agaquere@westga.edu

Office Hours: M, W: 9.00-11.00, noon-2pm, T: noon-2pm.

Required Textbook: “Organic Chemistry” by John McMurry, 6th Edition, the Study Guide and Solutions Manual.

Highly Recommended: “Preparing for Your ACS Examination in Organic Chemistry: The Official Guide”

Class material: Lectures notes (slides).

WebCTVista will be used for this course, in order to provide a permanent link between the students and the instructor. Grades will be posted on WebCT, as well as the syllabus, the lecture notes, homework and other relevant information. Students are to be aware of the information provided through WebCT.

Course Objective: The goal of this course is for you to acquire the fundamental principles and concepts of Organic Chemistry and to use them to solve Organic Chemistry problems. You will utilize and build on these concepts in CHEM 3422 (Organic Chemistry, part 2).

Tests schedule:

1st exam: Chapters 1, 2, 3: Friday August 31st,

2nd exam: Chapters 4, 5, 6: Friday September 28th,

3rd exam: chapters 7, 8, 9: Friday November 2nd,

4th exam: Chapters 10, 11, 14: Wednesday December the 5th.

Final: Monday December, 10th, 11.00 am – 1.00 pm

Last day to withdraw with a “W” is October 8th.

- **Grading Scale:** A: 100-85; B: 84-75; C: 74-60; D 59-50; F: 49-0%

Final Grade: The final grade will be based on the average from the final exam and the test scores.

$$\text{Final grade} = (\text{exam} + \text{bonus quizzes}) \text{ average}$$

No make up tests will be given. If you miss a test for any reason (illness, death in the family, bad weather conditions, legal events, car problem and so on...), the test score of the exam you missed will be replaced by the score you obtained on the final exam. There will be no exception to this policy. If you happen to miss more than one exam, the final exam score will replace for the grade of each exam you missed. No extra time will be given if you arrive late for a test for any reason.

Each test is an integrative examination built on previous knowledge acquired in the class. Be sure to understand and know everything you have learned in the class since the beginning of the semester since you may be tested on it at any time.

All examinations will be under the form of multiple choice questions, where no partial credit can be given. The final examination will be an integrative examination covering the knowledge acquired all along the semester. If there is a conflict with the final examination time, you must provide me the written authorization from the Dean of Arts & Sciences to move your final examination time. This note should be delivered to me at least two weeks prior to the scheduled final examination time.

Study Skills, suggested problems:

For each exam, there is a list of exercises, from your manual (so that you have the solution) that you are supposed to study on your own. They will not be collected but it is strongly suggested that you attempt to do them since they resemble the questions of the exams. The exercises from the list of exercises from your book are not restricted, this is the minimum you should do to pass this class, so for extra practice, it is expected that you will attempt to solve more problems from your book. It is highly recommended that you use the Study Guide and Solutions Manual. The best way to make sure that you have understood the material covered in class is to work through the appropriate problems on a regular basis (every day). Also the website from the textbook has some practice quizzes that you need to solve as some of these problems will be used for the exams.

McMurry: <http://chemistry.brookscole.com/mcmurry6e>

Other useful websites:

Organic Chemistry flash cards and tutorials:

www.ochem.com

<http://www.chemistry.ohio-state.edu/organic/flashcards/>

Virtual Textbook <http://www.cem.msu.edu/~reusch/VirtualText/intro1.htm>

Learning Outcomes

Successfully complete written and oral assignments and examinations.

Understand the bases for organic chemistry.

Understand the structure/property relationships.

Know nomenclature of organic compounds.

Understand the concepts of mechanisms in organic chemistry, be able to identify and write mechanisms for organic chemical reactions.

Be able to design a simple organic synthesis based on the reactions learned in class.

Policies – Academic misconduct

Cheating on a homework assignment or a quiz for the first time will result in a score of zero for that particular paper or quiz. If the student is caught cheating a second time, his grade for the entire course will be an F. Furthermore, if a student is caught

cheating on an examination, he will automatically receive a grade F for the entire course and I will inform the vice-president of academic affairs as well as the dean of the college. Any infraction will be taken before the disciplinary committee and played out to the fullest extent. Cheating will never be tolerated. All exams and quizzes will be closed book/closed notes, and will be taken individually (unless otherwise instructed).

During exams you may not use your own paper or other materials except your pen or pencil.

Academic dishonesty will not be tolerated. Academic dishonesty includes unauthorized use of any materials, notes, sources of information, or study aids or tools during a quiz or exam. It also includes the unauthorized assistance of any person other than the course instructor during a quiz or exam, the unauthorized viewing of another person's work during a quiz or exam, or the unauthorized securing of all or part of any quiz or exam before submission by the instructor.

Violation of academic honesty will generate disciplinary action that may include a course grade of F. A student who is suspected of cheating must confess to all wrong doing at the first opportunity (when first confronted), or risk a harsher penalty. If you believe that there are situations in the course that foster academic dishonesty, please bring them to my attention. Likewise, if you have observed cheating, bring the details to my attention as soon as practical. Insofar as it is possible, your anonymity will be protected.

Attendance is mandatory to achieve success in such a course and will be monitored: at every session, by signing the attendance sheet or answering to the roll. No student will be able to get help during office hours, if he/she has not attended class. Pop-quizzes will take place at any time during the session and there will be no make-up quiz. Students are to be present and attentive to the lecture; in order to enforce these ideas regular unannounced quizzes will be given and be used as bonus points for exams.

Unsocial behavior such as talking and laughing during class, using cell phones, text messengers and being disruptive in general by arriving consistently late, leaving consistently early will not be tolerated and you will be asked to leave the class and your attendance for that day will be cancelled. Also, the use of cell phones or laptops is prohibited during the sessions at any time. Unless specific medical conditions, students will not be allowed to leave the classroom at any time but especially while taking an examination. Leaving the classroom during class time will result in losing the attendance for that day and during an examination it will be considered as being finished with the examination.

Printed exercises will be distributed in class and students will have time in class to work them, it is the students' best interest to attempt to solve them as pop-up quizzes may be related to these. Also readings will be assigned and might also be the object of unannounced quizzes.

List of exercises

1.23, 1.24, 1.25, 1.27, 1.30, 1.41, 1.46, 1.47
2.27, 2.28, 2.30, 2.35, 2.37, 2.41, 2.43, 2.44, 2.45, 2.49, 2.57
3.29, 3.30, 3.32, 3.36, 3.39, 3.43, 3.44, 3.45, 3.49, 3.52
4.24, 4.31, 4.34, 4.38, 4.49
5.23, 5.24, 5.37, 5.39, 5.40, 5.43, 5.47
6.23, 6.26, 6.29, 6.39, 6.40, 6.41, 6.42, 6.47, 6.48, 6.49

7.23, 7.25, 7.26, 7.30, 7.32, 7.36, 7.43, 7.51
8.19, 8.20, 8.22, 8.24, 8.29, 8.38, 8.43, 8.44, 8.46
9.31, 9.32, 9.38, 9.40, 9.43, 6.45, 9.46, 9.48, 9.53, 9.55, 9.57, 9.65, 9.85, 9.86
10.17, 10.18, 10.21, 10.22, 10.23, 10.31, 10.32, 10.33, 10.35, 10.38, 10.40, 10.42
11.26, 11.27, 11.30, 11.31, 11.35, 11.36, 11.40, 11.43, 11.46, 11.48, 11.50, 11.53, 11.61,
11.63, 11.67
14.20, 14.22, 14.28, 14.31, 14.32, 14.33, 14.34, 14.40, 14.45

Extra credit: Extra credit may occur in the form of a bonus quiz, decision that belongs to the instructor only.

Communication: The official communication method will be through campus e-mail (MyUWG and webCT), no other form of communication will be accepted as this system only verifies the identity of the interlocutor.

Additional Policies:

- Students are expected to attend all classes. A large part of the learning process in this course is based on the in-class activities. If you are not here you will not have a chance to participate in those activities. There will be no makeup quizzes. If you miss a class it is your responsibility to get class notes from another student in the class.
- If you must bring your cell phone to class, make sure the ringer is **OFF** during class. Any cells phones seen during an exam will result in an automatic F for the exam.
- This syllabus outlines the policies for the course. You are responsible for understanding them. Any changes in course policy will be announced in class or on the class WebCT site.
- Qualified students with disabilities should contact me as soon as possible to ensure that appropriate accommodations can be made.

How to Succeed in Organic Chemistry:

- i. Never get behind. There is an enormous amount of material to be learned, and it can only be accomplished through very disciplined study. Get behind and you're sunk. You can't learn it all the night before the exam.
- ii. Strive to understand, not just memorize the material. There is a fair amount of memorization that you will have to do, but it's much easier if you understand the material first.
- iii. Practice, practice, practice. Do all of the suggested problems in the book. Come to class every day. Successful students rely more on their lecture notes than on the text, and remember, it's the person giving the lectures, not the author of the text, that is writing the exams.
- iv. Understand, do not memorize mechanisms.