

Simmons College

Department of Chemistry, Spring 2008

Chemistry 112: Introductory Organic Chemistry

Chem. 112 web site address: <http://www.simmons.edu/~lee/>

Professor Nancy Lee

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Office Hours: M,W 1:30-3 Office: S-440

Tel: (617) 521-2732

Study Groups: 18 hours to choose from!! Be sure to attend at least once a week!!

Sunday	Monday	Tuesday
2-4 PM in library		3:30-5:30 PM in 4 th flr Sci Bldg.
6-10 PM in Evan's Basement	6-10 PM in Evan's Basement	4-10 PM in Evan's Basement

Texts and Required Materials:

- Stephen Stoker, General, Organic and Biological Chemistry, 4th Ed. (Houghton Mifflin, 2007; ISBN 0-618-606068-X).
- Stephen Stoker, Study Guide with Solutions, 4th Ed. (Houghton Mifflin, 2007; ISBN 0-618-606092).
- Chem. 112 Laboratory Experiments Manual (available from the Chemistry Dept. Stockroom-4th floor Science)
- A bound laboratory notebook (available from the bookstore)
- Safety glasses & lab coat (available from the Chemistry Liaison or stockroom).
- Molecular model set (available from the Chemistry Dept. Stockroom)

Exams: There will be three in-class exams and a cumulative final. The dates of these exams are as follows:

Exam I: Feb 20, 2008 (Wed.)

Exam II: Mar. 26, 2008 (Wed.)

Exam III: Apr. 23, 2008 (Wed.)

Final (cumulative): TBA

Only absences due to serious illness, which must be verified by a doctor's note, or unusual emergency cases will be accepted. You must email me as soon as you can. Those with excused absence will be given a chance to take a makeup exam.

Quizzes: There will be a total of 10 quizzes this semester. The specific dates of quizzes will be given on the unit syllabus and they are all on Wednesdays. The problems on quizzes will be selected directly from your homework assignments. Only 7 out of 10 quizzes will be counted toward your grade and the lowest three quizzes will be dropped at the end of the semester. If you miss a quiz (due to excused or unexcused absence) you will receive a zero for the quiz and will be dropped. There will be NO make-up quizzes.

Homework: Reading assignments and homework problems from Stoker will be assigned for each lecture. I **strongly** recommend that you do the reading assignments BEFORE each lecture. After lecture, work on all the self-check exercises that are incorporated in your reading assignment. These problems are very similar to the homework assignments and the problems are worked out for you, which can be found at the end of book. After you have mastered these self-check exercises, you should work on the assigned problems on your own. It is your responsibility to work on these problems - they will not be collected. The answers (work not shown) are available for odd numbered problems in the back of the book. Since the textbook only has answers, it is highly recommended that you use the study guide to see how an answer to the problem is derived (solutions are in back half of the guide). I recommend that you use different color pen and grade your homework answers. If you do not have the study guide, it will be available at the library reference and can be checked out for two hours.

In addition, a review problem set will be handed out for each unit a few days before each exam. Solutions to the problem set will be discussed during the review lectures and the answers will be posted on Chem. 112 web site.

Attendance: It is extremely important that you attend all the classes. There will be three identical lectures given (MWF 9AM, 10AM, 12:30PM) and you are welcome to go to any of these if you miss the lecture you are assigned to. Keeping up with the new material presented in each lecture is the key to success in this course. It is much more difficult to keep up if you miss classes. However, if you do miss a class due to illness, it is your responsibility to obtain the notes and handouts that you missed from a classmate.

Study Groups: Study groups are led by upper-class students who have excelled in this course. It is highly recommended that you attend one of the study groups that will be offered on a weekly basis. Often they will offer insights and advice on how to solve a problem or explain a concept to you at your level. You should bring all your questions (from lecture, from homework problems, from labs etc..) to the study group.

Office Hours: Office hours are walk-in times to get extra help. The times are listed on page one of this syllabus. If your schedule conflicts with the study groups and office hours, you should make individual appointments to see me by phone or e-mail. If you cannot keep an appointment you made, please let me know in advance.

Students with documented disability: Come and see me the first week of the semester and go to the Disability Services (DS) office, located on the third floor of the Palace Road Building, Suite P304 (phone: 617-521-2474.) to get accommodations.

Advice: You should plan to spend at least 12-15 hours a week for this class. You will be presented with a lot of new material in each lecture. You should do the reading assignments **BEFORE** each lecture. Pay attention and take good notes during the lectures. After each lecture, try to understand the concepts presented by reviewing your notes and assigned readings. Work on the self-check exercises. Once you feel that you've mastered the concepts, try the homework problems. Do not just look up the answers without really trying the problems first. If you are not getting the right answers and you cannot figure it out by yourself, make a list of questions and bring them to the study group or my office hours.

It may be helpful to study in groups so that you can talk to others about homework problems, lectures and labs etc. Students also find taking notes from reading assignments and using 3x5 index cards to be extremely helpful. The key to success in this class is to keep up with the fast pace of the class; cramming right before exams will not work! Since each lecture has homework problems and reading assignments, you should do the work **before** the next class. The next lecture will build on the previous lecture and I will assume that you have understood the material from the previous lecture. Procrastination is the biggest source of failure in chemistry!

Grades:	3 Exams (100 pts each)	300 pts
	Final Exam	275 pts
	Quizzes (7 best out of 10, 25 pts each)	175 pts
	<u>Laboratory Grade</u>	<u>250 pts</u>
	Total	1000pts

Fall 2008 Tentative Syllabus and Lecture Outline

Unit #	Topic	Lecture #	Dates
Unit I	Alkanes, Alkenes, Aromatics Exam I: Feb 20, 2008 (Wed.)	1-10	1/25-2/15
Unit II	Alcohols, Ethers, Aldehydes & Ketones Exam II: Mar 26, 2008 (Wed.)	11-20	2/22-3/21

Unit III	Carbohydrates, Acid family Exam III: Apr 23, 2008 (Wed.)	21-30	3/24-4/16
Unit IV	Lipids, Proteins	31-36	4/18-5/5