

CHEMISTRY 66H: ORGANIC CHEMISTRY
8:00 – 9:15 T,TH SPRING 2002 VE 308
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PREREQUISITE: CHEMISTRY 61 OR 65H
OFFICE HOURS: MONDAY, TUESDAY 1-2 OR BY APPOINTMENT

Text: *Organic Chemistry*, Thomas N. Sorrell

Lectures and Exam Dates

Date	Sorrell
January 8, 10	Chapter 13 <i>Organometallic Chemistry</i>
January 17, 22	Chapter 14 <i>Spectroscopy</i>
January 24, 29	Chapter 15 <i>NMR</i>
January 31, February 5, 7	Chapter 17 <i>Nucleophilic Addition Reactions</i>
February 14	Exam I Chapter 13- 15, 17 Sorrell
February 12, 19	Chapter 18 <i>Carbonyl Additions Elimination Reactions</i>
February 21, 23, 28	Chapter 19 <i>Carboxylic Acid Addition Elimination</i>
March 5, 7	Chapter 20 <i>Acid Base Chemistry of Carbonyls</i>
March 12, 14	<i>Spring Break</i>
March 19, 21	Chapter 21 <i>Nucleophilic Addition of Enolates</i>
March 26	Exam II Chapters 18 - 21 Sorrell
March 28, April 2	Chapter 22 <i>Nucleophilic Addition to Enones</i>
April 4, 9	Chapter 23 <i>Nitrogen Containing Compounds</i>
April 11, 18	Chapter 25 <i>Amino Acids, Proteins</i>
April 16	Exam III Chapter 22, 23, 25
April 23, 25	Chapter 26 <i>Nucleic Acids</i>
April 30	Review
May 9 (Th)	FINAL EXAM 8:00 noon Ve 308 Chapters 13, 14-27 Sorrell

Paper: *A ten page paper on a topic related to the course will be required near the end of the semester: More to come later.*

Grading: Three hour examinations will be given at approximately monthly intervals (February 14, March 26, April 16). Ten point quizzes will be given about every third lecture (see above) The grade will be computed as follows: three hour exams (20% each) + quizzes (10%)+ final exam (30%).

STUDY TIPS FOR THE COURSE

Organic chemistry is a course that builds sequentially on material that has been presented earlier in the course. *It is essential that you do not fall behind. It becomes extremely difficult to catch up.* The best approach to mastering the material in this course is to keep up daily, therefore you should spend some time every day working on the course. It is significantly better to spend 30 minutes every day for seven days than to sit down and spend 3.5 hours one day a week on this course. Repetition is extremely important. It takes time to master some of the difficult concepts in this course and going back over certain ideas will make them much easier to comprehend. In addition, new ideas, which you learn later in a chapter, will often make earlier concepts more understandable. This is why repetitive studying and working every day is so important. If you are having difficulty with the course, get help as soon as possible. Waiting until half way through the semester is too late.

REVIEW PROBLEMS:

Representative problems will be assigned at the beginning of each chapter. Typically, the more problem solving you do, the better you will comprehend the concepts of the course. All the problems within the text of the chapter and at the end of the chapter are useful and will help if you work them. However, if time limitations prevent you from working all the problems, work only part of each problem such as the **a** and **b** part rather than **a, b, c, and d**. Problems which are representative of the material are listed below if you do not have time to work some part of all the problems.

MOLECULAR MODELS

Molecular models are useful for much of the course, particularly the sections on bonding and stereochemistry. Since stereochemistry becomes an integral part of the course after its introduction, models will also be useful later. Models cannot be used during the exams, however.

HONOR CODE:

Since all graded work (including homework to be collected, quizzes, papers, mid-term examinations, research proposals, laboratory results and reports, *etc.*) may be used in the determination of academic progress, no collaboration on this work is permitted unless the instructor explicitly indicates that some specific degree of collaboration is allowed. This statement is not intended to discourage students from studying together or working together on assignments that are not to be collected.

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STUDENTS LACKING THE PROPER PREREQUISITES WILL BE DROPPED FROM THE COURSE