

Chemistry 302

Spring 2006

Instructor: Dr. Wayne Harrison

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Office Hours: TBA

Text: "Organic Chemistry", by McMurry, 6th Edition

Course Objectives

The two semester organic sequence is designed to introduce the student compounds of carbon. This course focuses on the study many of the functional groups found in organic chemistry such as alcohols, aldehydes, ketones, carboxylic acids, amines, and phenols. The student will be exposed to structure and bonding, nomenclature, synthetic reactions, reaction mechanisms, and stereochemistry of the various classes of compounds. Students enrolled in this course are expected either to have passed the first semester of the sequence with at least a C- or to have achieved the required background via other means. As with most sequence courses, it is expected that the student retained the material presented in the first semester. The course will consist of both lecture and classroom participation.

CHAPTERS

PROBLEMS

14	Conjugated Systems	20, 21 a-d, 22, 31
15	Aromatic Systems	18, 19, 21
16	Aromatic Systems II	29, 30, 31, 39, 45, 51b, 53a, 54a, 73
17	Alcohols	26a-c, 31a,e,g,h, 33a,b, 37
18	Ethers and Epoxides	24b,d, 25b,c,e, 27a,b
19	Aldehydes and Ketones	28c,f,h,k, 30c,d, 32a,c,d,e,f,g, 40a
20	Carboxylic Acids	20c,f, 21d, 25, 26a-d, 49
21	Derivatives of Carboxylic Acids	32a,d,e,g
22, 23	Enolates	22: 21, 24b,d, 26, 28 23: 37a,d, 45
24	Amines	25, 26, 27a-d, 29a-d, 30, 37c
25, 26, 27	Biomolecules	

Exam Schedule (Tentative): (NOTE: LECTURE EXAMS ARE SCHEDULED ON TUESDAY)

First Hour Exam	January 31
Second Hour Exam	February 21
Third Hour Exam	March 21
Fourth Hour Exam	April 18
Final Exam	Finals Week

Grading:

Exam I	20%	A, A-: 90.0 - 100
Exam II	20%	B-, B, B+: 80.0 – 89.9
Exam III	20%	C-, C, C+: 70.0 – 79.9
Exam IV	20%	D-, D, D+: 60.0 – 69.9
Final Exam	20%	F: < 60
Laboratory	20%	

The lowest of your exam scores will be dropped to give a total of 100%. **Attendance for the Final Exam is mandatory.** Class attendance and participation are expected and could be a factor in the final outcome. **Since one exam is dropped, there is no such thing as a make-up exam in this class; therefore, a missed exam is considered your dropped score. IF YOU ARE TO MISS AN EXAM DUE TO A SCHEDULED COLLEGE RELATED ACTIVITY, IT IS YOUR RESPONSIBILITY TO NOTIFY ME AND SCHEDULE TO TAKE THE EXAM PRIOR TO YOUR DEPARTURE.** Greensboro College policies will be in effect; therefore, excessive absences, classroom (including laboratory) misconduct and dishonesty will be dealt with accordingly.