

Chemistry 2370.001

Syllabus

Summer 2008

Professor: Dr. Trent Selby

Office: Chem 363

Phone: (940) 565-2059

E-mail: selby@unt.edu (please put "organic class" in the subject line).

Office Hours: Wednesday & Thursday 10:00-10:50
(or by appointment)

Class: Lecture (room 106): M,Tu,W,Th, 11:00 A.M. - 12:50 P.M. (required attendance)

Textbook: (required) "Organic Chemistry," 9th Ed., Solomons & Fryhle (Wiley)
(optional) 1. "Study Guide and Solutions Manual for Organic Chemistry" T. W. Graham Solomons.

Students with disabilities: *This department believes in reasonably accommodating individuals with disabilities and complies with university policy established under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (1990) to provide for equal access and opportunity. Please communicate with your professor as to your specific needs so appropriate arrangements can be made through the department and/or the Office of Disability Accommodation (Union 318A, 565-4323)*

Attendance Policy: Regular attendance at all lectures is expected. Students with excessive absences (more than three) may be dropped from the course for lack of attendance.

Exams : (tentative exam dates):

Exam 1 (100 pts): **Thursday, June 5**

Exam 2 (100 pts): **Thursday, June 12**

Exam 3 (100 pts): **Thursday, June 19**

Exam 4 (100 pts): **Thursday, June 26**

Comprehensive Final (100 pts): **Thursday, July 3**

There will be four hourly exams given. In determining your final grade for this course, I will drop the lowest grade of your four exams. If you are unable to take one of the scheduled hourly exams for any reason, this will count as the dropped exam. There will be no make-up exams or incompletes (I) given for this course. The final is a comprehensive exam that will be given on Thursday, July 3 during the normal class period (11:00-12:50).

Grading: (note: a grading curve may be used, at my discretion, to achieve a fair distribution of grades)

<u>Course Grades</u>		
		A ≥ 360
Three best hour exams	= 300 pts.	B ≥ 320
Final	= <u>100 pts.</u>	C ≥ 280
Maximum possible points	= 400 pts.	D ≥ 240

Week 1

Chapter 1 Bonding and Molecular Structure

Homework problems: (9th Ed.) 1-5, 8, 12-16, 19-25

Chapter 2 Functional Groups, Intermolecular Forces, and Infrared (IR) Spectroscopy

Homework problems: (9th Ed.) 1, 8, 9, 11, 12, 15, 20-23, 25-27

Chapter 3 Acids and Bases

Homework problems: (9th Ed.) 1, 2, 3, 11, 13a,b,e, 15, 17, 19-21, 28, 29, 31

Week 2

Chapter 4 Nomenclature and Conformations of Alkanes and Cycloalkanes

Homework prob.: (9th Ed.) 13a,b, 14, 15

Chapter 5 Stereochemistry

Homework problems: (9th Ed.) 1-4, 7-12

Week 3

Chapter 6 Ionic Reactions: S_N1, S_N2, E1 and E2 reactions of alkyl halides

Homework problems: (9th Ed.) 1, 2, 4, 11-14, 16, 19-22, 26, 33

Chapter 7 Alkenes and Alkynes I: Properties and Synthesis.

Homework problems: (9th Ed.) 8, 9

Week 4

Chapter 8 Alkenes and Alkynes II: Addition Reactions

Homework problems: (9th Ed.) 1-3, 5-7, 9, 11, 13-21, 23, 27-33, 37, 38, 45-47

Chapter 9 Nuclear Magnetic Resonance and Mass Spectroscopy

Homework problems: (9th Ed.) 4, 6, 8, 9, 28, 30

Week 5

Chapter 10 Radical Reactions

Homework problems: (9th Ed.) 2, 4, 11, 19, 20

Chapter 11 Alcohols and Ethers

Homework problems: (9th Ed.) 2, 4-6, 8, 13, 15, 16, 19-21, 25-28, 33