

Chemistry 2380.001

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, July 10**

Exam 2 (100 pts): **Thursday, July 17**

Exam 3 (100 pts): **Thursday, July 24**

Exam 4 (100 pts): **Thursday, July 31**

Comprehensive Final (100 pts): **Friday, August 8** *The Final Exam is the ACS standardized exam, covering material from both semesters of organic chemistry*

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 (covers Organic I and II) that will be given on Friday, August 8 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)

Course Grades

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

We will cover two chapters per week. Below is a list of homework problems for each chapter.

Week 1

Chapter 12 Alcohols from carbonyl compounds: Oxidation-reduction...

Homework problems: (9th Ed.) 4-6, 8, 10-12, 13a-d, 14, 16, 18, 21, 25

Chapter 13 Conjugated unsaturated systems

Homework problems: (9th Ed.) 2-6, 10-15, 17, 18, 22-28, 40-42

Week 2

Chapter 14 Aromatic compounds

Homework problems: (9th Ed.) 3-5, 9, 17, 19

Chapter 15 Reactions of aromatic compounds

Homework prob.: (9th Ed.) 1-3, 5-10, 13, 14, 17, 18, 20, 26, 27, 29a-e, 34, 35

Week 3

Chapter 16 Aldehydes and ketones I: Nucleophilic addition...

Homework problems: (9th Ed.) 1, 3, 4a,b, 5-7, 9, 10, 12, 13, 18, 19a-g, 20a-h, 21a-h, 22, 25a-b, 26a-b, 27

Chapter 17 Aldehydes and ketones II: Enols and enolates

Homework problems: (9th Ed.) 1, 5, 12, 28a,b,g,i,k, 29a,b,g,i,k, 30, 34a,b

Week 4

Chapter 18 Carboxylic acids and their derivatives: Nucleophilic addition...

Homework problems: (9th Ed.) 1, 3, 5-7, 11, 14, 16, 19a-f, 20, 21, 24a-f, 29, 30

Chapter 19 Synthesis and reactions of β -dicarbonyl compounds: More chemistry of enolates

Homework problems: (9th Ed.) 2-5

Week 5

Chapter 20 Amines

Homework problems: (9th Ed.) 4-7, 21a-c, 22a-e, 23a-e, 26a-m, 30a,b,g, 39

Chapter 21 Phenols and aryl halides: Nucleophilic aromatic substitution

Homework problems: (9th Ed.) 14