

Course: Chemistry 412/512
Place: SC 064
Time: MW 3:00 – 4:15

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Textbook: "Modern Physical Organic Chemistry", by E. V. Anslyn and D. A. Dougherty, 1st Edition, University Science Books

Software packages (these are pre-installed on the computers in the computer lab):

- ♦ *Gaussian 03W*
- ♦ *GaussView*

ADDITIONAL INFORMATION IS AVAILABLE ON MY WEBPAGE:

<http://academic.udayton.edu/VladimirBenin>

CHAPTERS AND EXAMS

Part I: Molecular Structure and Thermodynamics

Ch. 1: Introduction to Structure and Models of Bonding
Ch. 2: Strain and Stability

MONDAY, FEBRUARY 18: MIDTERM #1 (CHAPTERS 1, 2)

Part II: Reactivity, Kinetics and Mechanisms

Ch. 7: Energy Surfaces and Kinetic Analyses
Ch. 8: Experiments Related to Thermodynamics and Kinetics

WEDNESDAY, MARCH 26: MIDTERM #2 (CHAPTERS 7, 8)

Part III: Electronic Structure: Theory and Applications

Ch. 15: Thermal Pericyclic Reactions
Ch. 17: Electronic Organic Materials

FINAL EXAM: April 28, Monday, 12:20 – 2:10 pm, in SC 064

GRADING, POINTS AND PERCENTAGE DISTRIBUTION

3 homeworks	60 points	30% (20 points each)
2 midterms	90 points	45% (45 points each)
Final exam	50 points	25%
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Total	200 points	100%

SOME COMMENTS AND SUGGESTIONS

LECTURES: It is in your best interest to familiarize yourself with the scheduled material ahead of time, in preparation for lectures. Attendance is not required for this course.

HOMEWORKS: There will be three (3) homework assignments given and graded. Each assignment will be given on Wednesday and required on the following Wednesday class meeting. In addition, you are strongly advised to invest time and solve additional problems following relevant chapters in your textbook.

EXAMS: There will be two (2) midterm exams, given during a regular class period.

OFFICE HOURS: I am not assigning particular office hours for this course. If you have questions, please stop by the office at any time.

INTERMEDIATE ORGANIC CHEMISTRY 412/512 CLASS CALENDAR, WINTER 2008

	Monday	Tuesday	Wednesday	Thursday	Friday
JANUARY	07 Gaussian		09 Gaussian		
	14 Gaussian		16 Chapter 01		
	21 NO CLASSES		23 Chapter 01		
	28 Chapter 01		30 Chapter 01		
FEBRUARY	04 Chapter 02		06 Chapter 02		
	11 Chapter 02		13 Chapter 02		
	18 MIDTERM #1		20 Chapter 07		
	25 Chapter 07		27 Chapter 07		
MARCH	03 Chapter 07		05 Chapter 08		
	10 Chapter 08		12 Chapter 08		
	17 NO CLASSES		19 NO CLASSES		
	24 NO CLASSES		26 MIDTERM #2		
	31 Chapter 15				
APRIL			02 Chapter 15		
	07 Chapter 15		09 Chapter 15		
	14 Chapter 17		16 Chapter 17		
	21 Chapter 17		23 LAST CLASS		
	28 FINAL EXAM				