

CHEMISTRY 477 – ORGANIC SPECTROSCOPY – FALL 2005

Syllabus

Instructor

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PHSC 308

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Office Hours	M	10-11
	T	11-12
	W	10-11
	Th	9-11

Textbook Required: Silverstein, Webster, and Kiemle, "Spectrometric Identification of Organic Compounds", 7th edition (2005).

Homework This course is all about problem-solving, so problem sets will be given out frequently during the semester, and will typically be due the following class. Some of the problems will be found on the internet: see the Chem 477 webCT page for links. Please have the assignments completed on time: late assignments will be accepted but with substantially reduced value. You may certainly work together on the homework problems (unless told otherwise) but of course exams are an individual effort.

Quizzes Every now and then in class there will be spectrometry problems to solve – sometimes individually and sometimes in groups, sometimes for practice and sometimes for grades.

Exams MIDTERM – Friday, October 21
FINAL EXAM – Wednesday, December 14, 10:00 am - 12:00 pm
You are free to bring the **textbook** for use on the exams. No additional notes are permitted.
Calculators will not be permitted or required. Instances of cheating will be referred to Student Judicial Affairs.

Evaluation	Homework and Quizzes	150 points total
	Midterm	50 points
	<u>FINAL</u>	<u>150 points</u>
	TOTAL	300 points

Grading	85-100%	A	65-69%	B-	40-49%	D
	80-84%	A-	60-64%	C+	0-39%	F
	75-79%	B+	55-59%	C		
	70-74%	B	50-54%	C-		

Topics and Objectives

By the end of CHEM 477 you will be able to demonstrate the ability to interpret various types of spectra of organic compounds and determine a complete chemical structure based on your interpretations. The topics that will be discussed in this course are:

Infrared Spectrometry	Chapter 2
Mass Spectrometry	Chapter 1
Proton NMR	Chapter 3
Carbon NMR	Chapter 4
Correlation (2D) NMR	Chapter 5

