

SYLLABUS
ORGANIC SPECTROSCOPY I (CHEM 7270) FALL 2008

- Time/location: M,W,Th,F 8:35-9:25 AM N-HEB 2010/2006
- Instructor: Prof. Ilya Zharov
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- URL: www.chem.utah.edu/faculty/zharov/group/IZ.htm
- Office Hours: Stop by any time or e-mail for appointment
- Objective: Learn to elucidate organic structures using analytical data
- Methods: Learning about analytical techniques, problem solving, presenting case studies
- Prerequisites: Basic understanding of NMR, MS, UV/Vis, IR, etc., and knowledge of organic structures

DATE		TOPIC	Homework
Mon	8/25	Logistics meeting	
Wed	8/27	MS	
Thu	8/28	MS	
Fri	8/29	MS field trip	
Mon	9/1	-	
Wed	9/3	NMR	
Thu	9/4	NMR	
Fri	9/5	NMR field trip	
Mon	9/8	UV/Vis/CD	
Wed	9/10	IR/Raman	
Thu	9/11	Chromatography	
Fri	9/12	Computational	
Mon	9/15	Exam 1	
Wed	9/17	Problem Solving	
Thu	9/18	Problem Solving	
Fri	9/19	Problem Solving	HW 1
Mon	9/22	Presentations (NMR) × 3	
Wed	9/24	Presentations (NMR) × 3	
Thu	9/25	Problem Solving	
Fri	9/26	Presentations × 2	HW2
Mon	9/29	Presentations × 2	
Wed	10/1	Presentations × 2	
Thu	10/2	Presentations × 2	
Fri	10/3	Presentations × 2	HW 3
Mon	10/6	Presentations × 2	
Wed	10/8	-	
Thu	10/9	-	
Fri	10/10	Exam 2	

- Suggested texts: Organic Structure Analysis by Crews, Rodriguez and Jaspars
 Organic Structures from Spectra by Field, Sternhell and Kalman
 Organic Structural Spectroscopy by Lambert, Shurvell, Lightner and Cooks
- Exam 1 (spectroscopic methods): 30 points
- Exam 2 (problem solving): 40 points
- Homework (team problem solving): 30 points
- Presentation: 50 points (25 class + 25 IZ)
- Total: 150 points