Chemistry 425 Fall 2010

Instructor:	Dr. Off	Craig M. Jensen, 309B Bilger Hall ice hours M, W, Th 2:00-3.00 PM or by a	appointment.
Problem Set	<u>s:</u>	5 sets worth 20 points each	(100 points)
Examinations:		Midterm Exam I, September 27	(100 points)
		Midterm Exam II, November 8	(100 points)
		Final Exam, 12:00 noon, December 13	(200 points)

Week of		Topic(s)
August	23	Crystal Lattices, Ionic Structures, X-ray Diffraction
	30	Network Solids, Defects
September	6	Molecular Orbital Theory
	13	Three Center Bonding, Compounds of Boron and Aluminum
	20	Hypervalent Compounds, Molecular Orbitals in Extended Systems
	27	Midterm I, Band Theory, Metals
October	4	Semiconductors, Infrared Spectroscopy
	11	Symmetry, Group Theory
	18	Normal Mode Analysis
	25	Normal Mode Analysis (Part II)
November	1	Group Theoretical Treatment of Molecular Orbitals
	8	Midterm II
	15	NMR Spectroscopy of Multi-spin Systems
	22	Second Order Spectra, Magnetic Nonequivalence
	29	Effects of Quadrurpolar Nuclei
December	6	NMR Spectra of Fluxional Systems