

Schedule of experiments

	Mon	Tue	Thur	Week	Experiment # / Title
Jan.	29	30	1	1	<i>Check-in / photo-op</i>
Feb.	5	6	8	2	1 Knowing Nernst: Non-equilibrium Copper Redox Chemistry
	12	13	15	3	2 Same Formula, Different Story: Geometric Isomers of $\text{CoCl}_2(\text{en})_2$
	XX	20	22	4	3 Counting Charges: Vanadium's Oxidation States
	26	27	1	5	4 Measuring Molecular Magnetism
Mar.	5	6	8	6	5 Studying the Spectrochemical Series: Crystal Fields of Cr(III)
	12	13	15	7	6 Thione-Thiol Tautomerism in Co(II) Complexes
	19	20	22	---	<i>Spring Break</i>
	26	27	29	8	7 Space-filling Spheres: Exploring Solid State Structures
Apr.	2	3	5	9	8 Seeing Sub-Angstrom Spacings: X-ray Diffraction
	9	10	12	10	9 Thermochromism in the Ionic Conductor, Cu_2HgI_4
	XX	(Mon)	19	11	<i>(Winter weather make-up date)</i>
	23	24	26	12	10 Building Better Blood?: Co(Salen) synthesis
	30	1	3	13	10 Building Breathing Barometers: Co(Salen) kinetics
May	7	8	10	14	11 Ferrite Magnetic Nanoparticles for Ferrofluids, Check-Out

Experimental Procedures will be available at: <http://people.chem.umass.edu/pkhalifah/chem242>