

CHEMISTRY 213: EXPERIMENT LIST

Lab #	Lab Name	Date(s)
Lab 1	Gas Chromatography-Mass Spectrometry	Jan 23
Lab 2	Isotopic Substitution in IR Spectroscopy	Jan 30
Lab 3	Identification of Isomers in a Ruthenium Compound	Feb 6
Lab 4	Complex Ion Composition by Job's Method	Feb 13
Lab 5	Crystal Structures of Solid-state Compounds	Feb 20
Lab 6	X-ray Powder Diffraction	2 weeks
	Synthesis	Feb 27
	X-ray	Mar 6
Lab 7	Computational Applications to VSEPR	Mar 20
Lab 8	Computational Applications to Molecular Orbitals	Mar 27
Lab 9	Synthesis, Characterization and Reactivity of CuBH_4	2 Weeks
	Synthesis	Apr 3
	Characterization	Apr 10
Lab 10	Lewis Acids and Bases	Apr 17
Lab 11	MCl_2 Compounds of 1,1'-bis(diphenylphosphino)ferrocene (dppf)	2 weeks
	Synthesis	Apr 24
	Magnetic Properties and Electrochemistry	May 1
	Final	May 1

During the first week, there will be a brief check-in.

During the final week course evaluations will be done.