

# Chemistry 141 Laboratory

## Fall 2022 Schedule

Week Beginning	Exp No.	Lab Manual Page #	Title of Experiment	Pre-lab Quiz (in lab)
August 22			Getting Back into the Groove: Dimensional Analysis Worksheet and Check-In	No Quiz
August 29	1	89	Spectrophotometry: Determination of Nickel(II)	Quiz 1
September 5 (Sept 5 is a Holiday but labs <i>will</i> meet Sept 6 -9)	2	1	Factors Affecting the Rates of Chemical Reactions	Quiz 2
September 12	3	13	Chemical Kinetics	Quiz 3
September 19	4	25	Chemical Equilibrium	Quiz 4
September 26	5	33	Redox Titration	Quiz 5
October 3	6	41	Dissociation Constant of a Weak Acid	Quiz 6
October 10	7	47	pH Titration of a Polyprotic Acid	Quiz 7
October 17	8	57	Buffers and Salts	Quiz 8
October 24	9	69	Redox Reactions and Electrochemistry	Quiz 9
October 31	10	79	Thermodynamics of Electrochemical Cells	Quiz 10
November 7	11	63	<i>Labs will not meet this week. Students will be given data to work up</i> for the Determination of a $K_{sp}$ (Solubility Product Constant) Experiment	
November 14	12	95	Synthesis and Study of Coordination Compounds	Quiz 11
November 21			<i>Thanksgiving Break – no labs this week</i>	
November 28	13	105	Synthesis and Investigation of Various Transition Metal Complexes	Quiz 12
December 5			Check-Out: <b>Required</b>	

**Meet in Science Laboratory Building (SLB) room 115 for prelab.  
All experiments will be conducted in SLB 104.**