

# Chemistry 141 Laboratory

## Spring 2024 Schedule

Week Beginning	Exp No.	Lab Manual Page #	Title of Experiment	Pre-lab Quiz (in lab)
January 15			Getting Back into the Groove: Dimensional Analysis Worksheet and Check-In <b>Required</b>	No Quiz
January 22	L1	1	Factors Affecting the Rates of Chemical Reactions	Quiz 1
January 29	L2	13	Chemical Kinetics	Quiz 2
February 5	L3	25	Chemical Equilibrium	Quiz 3
February 12	L4	41	Dissociation Constant of a Weak Acid	Quiz 4
February 19	L5	47	pH Titration of a Polyprotic Acid	Quiz 5
February 26	L6	57	Buffers and Salts	Quiz 6
March 4	L7	63	Determination of a $K_{sp}$ (Solubility Product Constant) Experiment	Quiz 7
March 11			<i>Spring Break – no labs this week</i>	
March 18	L8	33	Redox Titration	Quiz 8
March 25	L9	89	Spectrophotometry: Determination of Nickel(II)	Quiz 9
April 1	L10	69	Redox Reactions and Electrochemistry	Quiz 10
April 8	L11	79	Thermodynamics of Electrochemical Cells	Quiz 11
April 15	L12	95	Synthesis and Study of Coordination Compounds	Quiz 12
April 22	L13	105	Synthesis and Investigation of Various Transition Metal Complexes	Quiz 13
April 29			Check-Out: <b>Required</b>	

**All lab meetings will be held in Science Laboratory Building (SLB) room 104.**

**Late Check In (January 29<sup>th</sup> or later needs to be approved by the Lab Coordinator)**

**Grading:** See the CHE 141 Course Syllabus distributed by Dr. Szczepura for details regarding the lecture and how the laboratory component contributes to the overall points for the course.

Dimensional Analysis Worksheet	10 pts.
Laboratory Reports (13 experiments at 12 pts. each)	156 pts.
Pre-lab Quizzes (13 quizzes at 3 pts each)	39 pts.
<b>Total</b>	<b>205 pts.</b>