



Week	Date	Day	Lecture Topics (8:10-10:15 AM)	Textbook Chapter	Lab Activity (10:45-3:00 PM)
Week 1	11-Jun	M	SOLUTIONS – SOLUTION FORMATION – FACTORS IN SOLUBILITY	INTRO/13	REQUIRED SAFETY TRAINING, EQUIPMENT INTRODUCTION & TRAINING & LAB CHECK IN
	12-Jun	T	– CONCENTRATION & DILUTION – MEASURING CONCENTRATION	13	Exp#01: Intro Spectroscopy
	12-Jun	W	<i>Refund Cut-off (last day to withdraw with full refund)</i>		
	13-Jun	W	– COLLIGATIVE PROPERTIES – COLLOIDS & SUSPENSIONS	13	Workshop: Solutions
	14-Jun	Th	KINETICS – RATE OF CHANGE – RATE LAWS	14	Exp#02: Freezing Point Depression
	17-Jun	W	<i>Last date to withdraw without a 'w' on transcript</i>		
Week 2	18-Jun	M	– ACTIVATION ENERGY – TRANSITION STATES	14	Workshop: Kinetics
	19-Jun	T	– REACTION STEPS – CATALYSIS	14	Exp#03: Crystal Violet Decomposition
	20-Jun	W	EQUILIBRIUM – REVERSIBLE REACTIONS – INTRODUCING EQUILIBRIUM	15	Workshop: Ch13-14 Review
	21-Jun	Th	– HETEROGENEOUS EQUILIBRIUM – REACTION QUOTIENTS	15	EXAM #1 (Ch 13-14)
Week 3	25-Jun	M	– ICE TABLES – SOLVING EQUILIBRIUM EXPRESSIONS	15	Exp#04: Determination of K_{EQ}
	26-Jun	T	ACIDS – PROPERTIES & HISTORY – ACID STRENGTH	16	Exp#05: Le Chatelier's Principle
	27-Jun	W	– AUTO-IONIZATION OF WATER – PSCALE REPRESENTATION	16	Workshop: Equilibrium (ICE Tables)
	28-Jun	Th	– SOLUTION STRENGTH – STRUCTURE & CLASSES OF ACIDS	16	Exp#06: pH of Acids, Bases & Salts
Week 4	2-Jul	M	DISSOCIATION – TITRATION TECHNIQUES – WEAK ACIDS & BASES	16/17	Exp#07: Titration & Standardization
	3-Jul	T	– BUFFER SOLUTIONS – BUFFER CAPACITY & pH CURVES	17	Workshop: Ch15-16 Review
	4-Jul	W	<i>Independence Day Holiday – Campus Closed</i>		
	5-Jul	Th	– SOLUBILITY – PRECIPITATION	17	EXAM #2 (Ch 15-16)
Week 5	9-Jul	M	– QUALITATIVE ANALYSIS – COMPLEX IONS	17	Exp#08: Buffer Solutions
	10-Jul	T	THERMO – EFFICIENCY & SPONTANEITY – ENTROPY	18	Exp#09: Solubility (K_{sp})
	10-Jul	W	<i>Last date to withdraw with a 'w' on transcript.</i>		
	11-Jul	W	– HEAT TRANSFER – CHEMICAL POTENTIAL	18	Workshop: Solubility
	12-Jul	Th	– FREE ENERGY OF REACTION – IRREVERSIBILITY	18	Exp#10: Free Energy (Borax)
Week 6	16-Jul	M	E-CHEM – OXIDATION STATES – REDOX EQUATIONS	19	Workshop: Free Energy
	17-Jul	T	– CHEMICAL CELLS – STANDARD POTENTIALS	19	Exp#11: Electrochemistry
	18-Jul	W	– FINAL EXAM REVIEW –		
	19-Jul	Th	FINAL EXAM (Comprehensive) – July 19th		
Grades	(Final class grades posted through webSmart about one week after final exam)				

There are no make-up Exams, Quizzes or Lab Activities.
Schedule subject to change. (rev 20180610 NCD)