

Chemistry 210, Jasperse, Spring 2015 (43 class days, 4 Tests, 39 lectures)			Reading Assignment
	Date	Topic	
1	12-Jan	Intro. Liquids, Solids, and Noncovalent/Intermolecular Forces between Molecules.	10.1-3
2	14-Jan	Noncovalent/Intermolecular Forces between Molecules.	10.2,3, 9.3
3	16-Jan	Phase Changes, Phase Diagrams, Wonderful Water, Catchup	10.5, 5.3, 5.4, 10.6
	19-Jan	No Class. Martin Luther King Day.	
4	21-Jan	Liquid State, Vapor Pressure, Boiling	10.4, 11.2
5	23-Jan	Solubility and What Impacts Solubility Omit: 11.5	11.1
6	26-Jan	Factors Affecting Solubility; Impact of Dissolved Solutes on Solution Properties	11.3,11.4
7	28-Jan	Solids; Catchup	12.1,4,6
8	30-Jan	Reaction Rates; Dependence on Concentrations Omit: 12.2,3,5,7,8	15.1-3
9	2-Feb	Reaction Rates, Rate Laws	15.2-3
10	4-Feb	Elementary Reactions; Temperature Effects; Rate Laws; Reaction Mechanisms	15.4-6
11	6-Feb	Catalysts; Catchup	catchup
12	9-Feb	Equilibrium, Equilibrium Constants	16.1-3
T1	11-Feb	Test 1, Chapters 11, 15, and 13	
13	13-Feb	Equilibrium Constants: Determining Them, the Meaning Of Them, and Using Them	16.3-6
14	16-Feb	Shifting Equilibria: When an Equilibrium is Disturbed. LeChatelier's Principle	16.7-10
15	18-Feb	Acids/Bases; Dissociation of Water	17.1
16	20-Feb	pH Scale; Ka and Kb Constants	17.1-3
17	23-Feb	Ka and Kb Constants; Problem Solving Using Ka and Kb	17.3
18	25-Feb	Ka and Kb Constants; Problem Solving Using Ka and Kb	17.3-6
19	27-Feb	Molecular Structure and Acid Strength	17.5-6
20	2-Mar	Acid-Base Behavior of Salts; Lewis Acids and Bases	17.3-6
21	4-Mar	Catchup	catchup
22	6-Mar	Buffer Solutions	17.7-8
23	9-Mar	Acid-Base Titrations; Acid Rain	17.10
T2	11-Mar	Test 2, Chapters 16 and 17A	
24	13-Mar	Solubility	17.9
	16-Mar	Spring Break	
	18-Mar	Spring Break	
	20-Mar	Spring Break	
25	23-Mar	Factors That Affect Solubility	catchup
26	25-Mar	Reaction Direction; Probability; Entropy	17.9, 17.7
27	27-Mar	Entropy, Entropy Changes, and 2nd Law of Thermodynamics	14.1-4
28	30-Mar	Free Energy and the Equilibrium Constant, Miscellaneous	14.5,6
29	1-Apr	catchup	catchup
30	3-Apr	Oxidation Numbers, Oxidation-Reduction Reactions	19.1-3
31	6-Apr	Balancing Redox Reactions, Electrochemical Cells	19.3
T3	8-Apr	Test 3, Chapters 17B and 14	
	10-Apr	No Class, Good Friday	
	13-Apr	No Class, Easter Monday	
32	15-Apr	Cell Voltage, Using Standard Cell Potentials	19.3-5
33	17-Apr	Voltage/Free Energy/Concentration Relationship, Neuron Cells, Common Batteries	19.5-7
34	20-Apr	Electrolysis, Counting Electrons, Corrosion	19.8-9
35	22-Apr	Radioactivity, Nuclear Reactions, Patterns of Nuclear Stability	21.1-3
36	24-Apr	Nuclear Transmutations, Rates of Radioactive Decay	21.4-6
37	27-Apr	Fission, Fusion, Radiation, Applications	21.7-10
38	29-Apr	catchup	catchup
T4	1- May	Test 4, Chapters 19 and 20	
39	4- May	Class Evaluations, Final Exam Practice	
	May 11	Final Exam, 9am. , Monday	