

Lecture	Day	Date	Topic	Book Chapter
Physical and Chemical Equilibria				
1	T	1/18	Physical Equilibria – Vapor Pressure	16.10
2	H	1/20	Physical Equilibria – Phase Transitions	16.11
3	T	1/25	Solutions/Solubility	17.1-17.3
4	H	1/27	Mixtures – Colligative Properties	17.4-17.7
5	T	2/1	Chemical Equilibria – Mass Action	6.1-6.7
6	H	2/3	Chemical Equilibria	6.1-6.7
7	T	2/8	Equilibrium Stress	6.8, 10.10-10.11
8	H	2/10	Solubility Equilibria and Autoprotolysis	8.8
Acid/Base Equilibria				
9	T	2/15	Monoprotic Acids/Bases	7.1-7.6, 7.8
EXAM 1	T	2/15	Lectures 1-7	
10	H	2/17	Buffers/Neutralization	8.1-8.4
11	T	2/22	Titrations	8.5-8.6
12	H	2/24	Polyprotic Acids	7.7, 8.7
13	T	3/1	Exact pH calculations	7.9, 7.10, 8.3
14	H	3/3	Step-wise approach to Equilibria	7.11
Electrochemistry and Kinetics				
15	T	3/8	Balancing Redox Reactions	4.10-4.11
EXAM 2	T	3/8	Lectures 8-14	
16	H	3/10	Electrochemical Cell Conventions	11.1, 11.5
17	T	3/22	Standard Potentials	11.2-11.3
18	H	3/24	Nernst Equation and Electrolysis	11.4, 11.7
19	T	3/29	Reaction Rates	15.1, 15.2
20	H	3/31	Rate Laws	15.3-15.5
21	T	4/5	Mechanisms	15.6
22	H	4/7	Kinetic Theory and Catalysis	15.7-15.9
23	T	4/12	Exam Review	
EXAM 3	T	4/12	Lectures 15-23	
Nuclear and Organic Chemistry				
24	H	4/14	Nuclear Chemistry	20.1-20.2
25	T	4/19	Nuclear Chemistry	20.3-20.4
26	H	4/21	Nuclear Chemistry	20.6
27	T	4/26	Organic Chemistry Hydrocarbons	21.1-21.2
28	H	4/28	Organic Chemistry Functional groups	21.3-21.4
29	T	5/3	Polymers and Biopolymers	21.5-21.6
EXAM 3	W	5/4	Lectures 24-29	
30	H	5/5	iClicker wrap up	