

CH302 COURSE OUTLINE

Lecture	Day	Date	Topic	Chapter	Quizzes and Exams
Physical, Chemical Equilibria and Introduction to Acids and Bases					
1	T	1/16	canceled		
2	H	1/18	Phases and Phase Transitions	8.1 – 8.8	
3	T	1/23	Solubility	8.9 – 8.15	
4	H	1/25	Colligative Properties, Binary Mixtures	8.16 – 8.22	
5	T	1/30	Reactions at Equilibrium	9.1 – 9.6	Quiz 1
6	H	2/1	Equilibrium and Stress	9.7 – 9.11	
7	T	2/6	A/B Theory, pH, Autoprotolysis	10.1 – 10.5, 10.12 – 10.13	Quiz 2
8	H	2/8	Weak Acids and Bases	10.6 – 10.11	
	T	2/13		Chapters 6 - 9	Exam 1, Lectures 2 - 8
Complex Equilibria and Electrochemistry					
9	H	2/15	Polyprotic acids	10.14 – 10.15	
10	T	2/20	Dilute Solutions	10.16 – 10.19	
11	H	2/21	Buffers	11.1 – 11.4	
12	T	2/27	Titrations	11.5 – 11.9	Quiz 3
13	H	3/1	Solubility Equilibria	11.10 – 11.12	
14	T	3/6	Complexation Equilibria	11.13 – 11.16	
15	H	3/8	Redox reactions	12.1 – 12.2	Quiz 4
16	T	3/20	Galvanic Cells	12.3 – 12.6	
17	H	3/22	Standard potentials	12.7 – 12.13	
18	T	3/27	Electrolysis	12.14 – 12.17	
19	H	3/29	Reaction rates	13.1 – 13.3	
	T	4/2		Chapters 10 -11	Exam 2, Lectures 9 - 18
Kinetics, inorganic chemistry and organic chemistry					
20	H	4/5	Integrated Rate Laws	13.4 – 13.6	
21	T	4/10	Kinetic Theory	13.7 – 13.9	
22	H	4/12	Reaction Mechanisms and Catalysis	13.10 – 13.15	
23	T	4/17	Main group Chemistry	14	Quiz 5
24	H	4/19	Main group Chemistry	15	
25	T	4/24	Transition metal Chemistry	16	
26	H	4/26	Organic Chemistry Nomenclature	18	Quiz 6
27	T	5/1	Organic and Biochemistry	19	
	H	5/3		Chapters 13 – 19	Exam 3, Lectures 19-27
	F	5/15		Chapters 6 – 19	Final Exam 9 to noon