CH302 COURSE OUTLINE

011001	COCK	SE OUTL	HAE.	Lecture number	
Lecture	Day	Date	Торіс	Worksheet number	Quizzes and Exams
Physical a	nd Chen	nical Equili	bria, Intro to Aqueous Equilibria		T
1	Т	1/18	Physical Equilibria—Vapor Pressure	L1 and W1	
2	Н	1/20	Phases and Phase Transitions	L2 and W2	
3	T	1/25	Solubility	L3	
4	Н	1/27	Colligative Properties, Binary Mixtures	L4 and W3	
5	T	2/1	Reactions at Equilibrium, Mass Action Law	L5,6 and W4	Quiz 1
6	Н	2/3	Equilbrium and Stress, Van't Hoff Equation	L6,7	
7	T	2/8	Aqueous Equilibria: Water autoprotolysis	L8 and W5, 6	
8	Н	2/10	Aqueous Equilibria: Solubility	L9 and W7	
9	T	2/15	Aqueous Equilibria: Monoprotic acids and bases	L10,11 and W8	Quiz 2
Complex A	Aqueous	Equilibria	and Electrochemistry		
10	Н	2/17	Buffers Systems and Neutralization	L12	
11	T	2/22	Titrations	L13	
	Н	2/24	Overview of material on for Exam 1		
	Н	2/24	Exam 1 from 7:30 till 9 pm		Lectures 1 - 9
12	Т	3/1	A stepwise approach to pH calculations	L14	
13	Н	3/3	Solving Complex Equilibria: Dilute Species	L15 and W10	
14	T	3/8	Polyprotic Acids	L16 and W10	
15	Н	3/10	Balancing Redox Reactions	L17 and W11	Quiz 3
16	T	3/22	Electrochemical Cell Convention and Famous Batteries	L17 and W12	
17	Н	3/24	Standard Cell Potentials	L17	Quiz 4
18	T	3/29	More advanced electrochemistry calculations	L18 and W13	
	Н	3/31	Famous batteries and an overview of exam material	L24	
	Н	3/31	Exam 2 from 7:30 till 9 pm		Lectures 10 - 18
Kinetics, inorganic chemistry and organic chemistry					
19	T	4/5	Reaction rates	L19 and W15	
20	Н	4/7	Differential and Integrated Rate Laws	L20,21 and W14	
21	Т	4/12	Kinetic Theory	L22 and W16	
22	Н	4/14	Reaction Mechanisms and Famous catalysts	L22,23	Quiz 5
23	T	4/19	Famous Examples of Group I-IV Chemistry	L25 and W17	
24	Н	4/21	Famous Examples of Group V-VIII Chemistry	L25 and W18	
25	T	4/26	Organic Chemistry-Hydrocarbons	L 26 and W19	Quiz 6
26	Н	4/28	Organic Chemistry-Functional Groups	L 26	
27	Т	5/3	Polymers and Biopolymers	L 27	
	Н	5/5	Overview of material on Exam 3		
	Н	5/5	Exam 3 from 7:30 till 9 pm		Lectures 19-27