

ESG 198: Fundamentals of Engineering Chemistry

Textbook: Chemistry 9th edition by S. S. Zumdahl and S. A. Zumdahl

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Week	Date	Chapter	Topics
1	2019/2/26	1, 2	Overview (Chemical Foundation, Atoms and Molecules)
	2019/2/28	3, 4	Stoichiometry, Types of Chemical Reactions
2	2019/3/5	5	Gases
	2019/3/7	5	Gases
3	2019/3/12	6	First law of thermodynamics
	2019/3/14	6	Thermochemistry, Enthalpy, First law of thermodynamics
4	2019/3/19	holiday	
	2019/3/21	6	Thermochemistry, Enthalpy, First law of thermodynamics
5	2019/3/26	17	Spontaneity, Entropy, Second law of thermodynamics
	2019/3/28	17	Free energy, Second law of thermodynamics
6	2019/4/2	17	Free energy, Second law of thermodynamics
	2019/4/4	13	Chemical Equilibrium
7	2019/4/9	13	Chemical Equilibrium
	2019/4/11	Midterm exam I	
8	2019/4/16	15	Acid-Base Equilibria
	2019/4/18	15	Acid-Base Equilibria
9	2019/4/23	18	Electrochemistry
	2019/4/25	18	Electrochemistry
10	2019/4/30	12	Chemical Kinetics
	2019/5/2	12	Chemical Kinetics
11	2019/5/7	7	Atomic Structure and Periodicity
	2019/5/9	Midterm exam II	
12	2019/5/14	7	Atomic Structure and Periodicity
	2019/5/16	8	Chemical Bonding: General Concepts
13	2019/5/21	8	Chemical Bonding: General Concepts
	2019/5/23	9	Covalent Bonding, Molecular Orbitals
14	2017/5/28	9	Covalent Bonding, Molecular Orbitals
	2019/5/30	10,11	Liquids and Solids, Properties of Solutions
15	2019/6/4	10,11	Liquids and Solids, Properties of Solutions
	2019/6/6	holiday	
16	2019/6/11	reading day	
17	2019/6/	Final exam	