

## Chemistry 1010

## Introductory Chemistry

Spring, 2020

Wk	Date	Intended Lecture Topic	Chapters
1	1/6	Introduction: Risks and Benefits of Science and Technology	1.1-1.5
	1/8	Elemental Symbols and the Periodic Table	
	1/10	Scientific Measurements & Systems; Unit Factor Calculations	1.6-1.7
2	1/13	Density and States of Matter	1.8
	1/15	Heat and Temperature	1.9
	1/17	Atoms; John Dalton's Atomic Theory of Matter	2.1-2.3
3	1/20	<i>Martin Luther King Holiday</i>	
	1/22	The Mole: Avagadro's Number; the Periodic Table	2.4-2.6
	1/24	Atomic Structure: The Nucleus	3.1-3.5
4	1/27	Electron arrangements: The Bohr Model of the Atom	3.6-3.8
	1/29	Chemical Bonds; Lewis Electron Dot Structures; Ionic Compounds	4.1-4.5
	1/31	<b>First Exam</b> (College of Science Testing Center)	<b>1-3</b>
5	2/3	Covalent Bonding: Sharing Electrons	4.6-4.7
	2/5	Names and Shapes of Molecules	4.8-4.9
	2/7	Chemical Reactions	5.1-5.2
6	2/10	Writing and Balancing Chemical Equations	5.3
	2/12	Solids, Liquids, and Gases	6.1-6.4
	2/14	Kinetic-Molecular Theory; Atmospheric Pressure	6.5
7	2/17	<i>President's Day Holiday</i>	
	2/19	Gas Laws; Review for Exam	6.6
	2/21	<b>Second Exam</b> (College of Science Testing Center)	<b>4-6</b>
8	2/24	Acids and Bases	7.1-7.2
	2/26	The pH Scale; Buffers	7.5-7.7
	2/28	Important Commercial Acids and Bases	7.8
9	3/2	<i>Spring Break (no classes)</i>	
	3/4	<i>Spring Break (no classes)</i>	
	3/6	<i>Spring Break (no classes)</i>	
10	3/9	Oxidation and Reduction Reactions; Corrosion	8.1-8.2
	3/11	Batteries	8.3-8.6
	3/13	Water's unique properties	14.1-4
11	3/16	Hard and Soft Water; Water Purification Methods	14.5-14.8
	3/18	Chemicals from Earth	12.12.3
	3/20	Metals and Salts	12.4-12.7
12	3/23	Nuclear Chemistry: Radioactivity, Nuclear Equations, Half-life	11.1-11.5
	3/25	Energy from the Nucleus	11.6-11.8
	3/27	Nuclear Energy: Good or Bad?	11.9
13	3/30	<b>Third Exam</b> (College of Science Testing Center)	<b>7,8,11,12,14</b>
	4/1	Organic Chemistry: The Chemistry of Carbon	9.1
	4/3	Aliphatic Hydrocarbons	9.2
14	4/6	Hydrocarbons with Double Bonds	9.2
	4/8	Aromatic Hydrocarbons	9.3
	4/10	Functional Groups; Alcohols	9.5-9.6
15	4/13	Amines	9.8,18.2
	4/15	Polymers	10.1-10.3
	4/17	Plastics and the Environment	10.7
16	4/20	No Class - Prepare for Finals	
	4/22	<b>Final Exam (Tuesday, April 21, 11:00am-1:00pm; Lecture Room, ET128)</b>	