

Spring Semester 2016 – Tentative CHE150B schedule

#	DATE	Topic	Relevant Reading	Due	Quiz Schedule	CHE150L schedule
1	T-Jan 12	Welcome. Units and Significant Figures	1.4-1.5			No Lab this week
2	Th-Jan 14	Unit Conversions. Atoms and Isotopes.	1.6, 2.1-2.4			
3	T-Jan 19	Atomic Mass, The Mole and Molar Mass	2.5-2.7	As 1	Q1 (class 1-2)	No Lab this week
4	Th-Jan 21	Electron Configurations.	3.9-3.10, 4.5			
5	T-Jan 26	Periodic Trends. Lewis Dot Symbols. Ions and Ionic Bonding	4.4, 4.6, 5.2-5.3	As 2	Q2 (class 3-4)	Lab 1: Conversions and Units
6	Th-Jan 28	Naming Compounds. Covalent Bonding. Energy	5.4-5.7. 3.1			
7	T-Feb 2	Energy, Light and Quantum Theory	3.1-3.4	As 3	Q3 (class 5-6)	Lab 2: Recycling Plastics
8	Th-Feb 4	Electronegativity and Polarity. Lewis Structures	6.1-6.3			
9	T-Feb 9	Formal Charge and Resonance. Exceptions to Octet Rule	6.4-6.6	As 4	Q4 (class 7-8)	Lab 3: Metals in Water
10	Th-Feb 11	Empirical Formulas. Molecular and Formula Masses. % Composition. Molar Mass	5.5, 5.7-5.10			
--	T-Feb 16	Exam 1 – Classes 1-8, Assign 1-4, Quiz 1-4				Lab 4: Analysis of a White Powder
--	Th-Feb 18	No Class, Dr Winget is out of town				
11	T-Feb 23	Molecular Geometry and VSEPR	7.1-7.2	As 5	Q5 (class 9-10)	Lab 5: Calculations with Molar Mass
12	Th-Feb 25	Molecular Geometry and VSEPR contd. Valence Bond Theory	7.2, 7.4			
13	T-Mar 1	Hybridization Theory	7.5-7.6	As 6	Q6 (class 11-12)	Lab 6: VSEPR Theory
14	Th-Mar 3	MO Theory	7.7			
--	T-Mar 8	SPRING BREAK				No Lab this week
--	Th-Mar 10	SPRING BREAK				
--	T-Mar 15	PEAK WEEK				No Lab this week
--	Th-Mar 17	PEAK WEEK				
15	T-Mar 22	Intermolecular Forces	7.3	As 7	Q7 (class 13-14)	No Lab this week
16	Th-Mar 24	Calculations with Balanced Chemical Equations	8.1-8.3			
--	T-Mar 29	Exam 2 – Classes 9-14, Assign 5-7, Quiz 5-7				Lab 7: Oil Inquiry Lab
17	Th-Mar 31	Limiting Reactants. Aqueous Solutions.	8.4, 9.1			
18	T-April 5	Precipitation and Redox Reactions.	9.2	As 8	Q8 (class 15-17)	Lab 8: Stoichiometric Calculations
19	Th-April 7	Acid-Base Reactions. Molarity. Titrations.	9.3, 9.5-9.6			
20	T-April 12	pH. Dilutions	9.5	As 9	Q9 (class 18-19)	Lab 9: Water Hardness
21	Th-April 14	Energy and Energy Changes. Work and Heat	10.1-10.2			
--	T-April 19	Exam 3 – Classes 15-19, Assign 8-9, Quiz 8-9				Lab 10: Dilutions and Solutions
22	Th-April 21	Hess's Law, Enthalpies of Formation and Bond Enthalpy	10.3, 10.5-10.7			
--	T-April 26	SpARC – NO CLASSES				No Lab this week
23	Th-April 28	Reaction Rates	19.1-19.3			
24	T-May 3	Review and Catch Up		As 10	Q10 (class 20-23)	No Lab this week