Chem 111

Lecture Schedule

Spring 2012

WEEK OF	LECTURE TOPICS	READING		ASSIGNED TEXTBOOK PROBLEMS *
		CHAPT	SECTIONS OR PAGES	
Jan 9	Measurements, Chemical Nomenclature, Chemical Reactions	**3** **4**	**3**.5-**3**.6 **4**.6, **4**.8	**3**: 17,39,40,41,43,47,49 ,64,70,72,93, 95,99 **4**: 71.73.74,85 Worksheets: Formulas, Equations
Jan 16	Chemical Formula Calculations and Stoichiometry	**3** **4**	**3**.7-**3**.9 **4**.1-**4**.3	**3**: 68,70,72,80,82,88,90,92,112,113,118, 119, 121,122, 123,127,129,132,134 **4**: 37,38,41,43,44,45,47,49,50,51 Worksheet: Stoichiometry
Jan 23	Chemical Bonding and Intermolecular Forces.	**3** **8** **11**	**3**.2, **3**.4 **8**.6,**8**.7 **11**.3	**3**: 29,30 **8**: 71,72,73,75,79,81 **11:** 49,51 Worksheet: Lewis Structures
Jan 30	Gases	**5**	178-207, 212-217	**5:** 33,41,45,63,67,69,71,73,75,77,81,89,91,101, 103,105,107
Feb 6	Solids, Born-Haber Cycle	**11** **9**	**11**.10-**11**.12 **9**.4	**11**: 99,101,103,105,107 Worksheet: Solids
Feb 13	Liquids, Changes of State	**11**	**11**.5-**11**.9	**11**: 67,69,85,86,87
Feb 20	Mixtures: Colloids.	**12**	**12**.8	**12**: 26,27,28
Feb 27	Mixtures: Solutions Concentration, Ionic Equations, Electrolytes	**4** **12**	**4**.4, **4**.5, **4**.7 **12**.5	**4**: 67,68,75,77,55,56,57,59,60,61,63,65,66,83 **12:** 51,52,53,54,55,59,60,63,64,68 Worksheet: Molecular and Ionic Equations
Mar 5	Colligative Properties	**12**	**12**.6-**12**.7	**12**: 18,19,20,21,22,23,24,25,69,70,71,73,75,77, 79,81,83,85,87,88,89,91,92,109,110,111 Worksheet: Solutions and Colligative Properties
Mar 12	Acids and Bases pH, pOH, K_w.	**15**	**15**.3, **15**.5-**15**.6, **15**.11	**15**: 33,35,37,39,45(a,b) 49,51,55,57,77,81,83, 121,122,123,124
Mar 19	Equilibrium, Weak Acid/Base Equilibria	**14** **15**	**14** **15**.4, **15**.6-**15**.7	**15**: : 61,65,67,69,73,87,91 Worksheet: Acid-Base Equilibria
Mar 26	Common Ion, Buffers	**16**	**16**.2-**16**.3	**16**: 27,29,31,35, 37,39 41,43,45,47,49,53,57,59 Worksheet: Buffers
Apr 9	Polyprotic Acids, Hydrolysis	**15**	**15**.8, **15**.9	**15**: 109-111, 88,93,95,97,99,101,103,105 Worksheet: Chemical Equilibrium
Apr 16	Titration	**16**	**16**.4	**16**: 61.63, and other problems that may be assigned by the instructor
Apr 23	Solubility Equilibria	**16**	**16**.5	**17**: 87,89,91,93,95,97,99,101,103,105,107
Apr 30	Heterogeneous and Gas Equilibria	**14**	**14**.	**14:** 21,23,27,29,33,37,39,41,43,45,51,53,57,61, 63,65, 67,69
May 7				
Final Exam Week	Consult Final Exam Schedule			Exam 5

***** Homework collected at your instructor's discretion. Expect to find these pro blems on exams and quizzes.