Chemistry 103 – Course Schedule

Week	Day	Date	Topic	Lab	Readings	Reading ?s	PS # Due*	Quiz #*
1	T	9/6	Matter & Measurement	Citizenship in lab	Ch. 1	**1**		
	R	9/8	Atoms, Molecules and Ions		Ch. 2			
2	T	9/13	Atomic theory	**A** Solns, density & graphing **B** Lake study	Ch. 6 p. 207-218	**2**	**1**	**1**
	R	9/15	Quantum numbers and orbitals		Ch. 6 p. 219-229			
3	T	9/20	Electron configurations & periodic trends	**A** Lake study **B** Solns, density & graphing	Ch. 6/7 p. 229-264 Ch. 8 p. 294-296	**3**	**2**	**2**
	R	9/22	Periodic trends, cont.		review Ch. 7			
4	T	9/27	Bond types and Lewis structures	**A** Rxn of zinc and iodine **B** No lab	Ch. 8 p. 289-293 296-309	**EXAM 1 – Mon 9/26 @ 7:15 PM**		
	R	9/29	Lewis structures, cont.		review Ch. 8 p. 309-314			
5	T	10/4	VSEPR theory and hybrid orbitals	**A** VSEPR tutorial **B** Rxn of zinc and iodine	Ch. 9 p. 331-342 345-351	**4**	**3**	**3**
	R	10/6	Molecular polarity and π bonds		Ch. 9 p. 343-344 351-357			
6	T	10/11	Intermolecular forces	**A** Light, color & solns **B** VSEPR tutorial	Ch. 11 p. 425-436	**5**	**4**	**4**
	R	10/13	Intermolecular forces, cont.		review Ch. 11			
7	T	10/18	Stoichiometry	**A** Rxn types & chem. logic **B** light, color & solns	Ch. 3 p. 77-95	**EXAM 2 – Mon 10/17 @ 7:15 PM**		
	R	10/20	Stoichiometry, cont.		Ch. 3 p. 96-99			
8	T	10/25	Limiting reagents and reaction yields	**A** Synthesis of an Alum **B** Rxn types & chem. logic	Ch. 3 p. 99-103	**6**	**5**	**5**
	R	10/27	Reactions in aqueous solutions		Ch. 4 p. 115-127			
9	T	11/1	Neutralization and redox reactions	**A** No lab **B** Synthesis of an Alum	Ch. 4 p. 127-138	**7**	**6**	**6**
	R	11/3	Concentration, dilutions, titrations		Ch. 4 p. 139-148			
10	T	11/8	Thermodynamics	**A** No lab **B** Solution calorimetry	Ch. 5 p. 159-169	**EXAM 3 – Mon 11/7 @ 7:15 PM**		
	R	11/10	Enthalpy and calorimetry		Ch. 5 p. 169-180			
11	T	11/15	Hess's Law and Heats of formation	**A** Solution calorimetry **B** No lab	Ch. 5 p. 181-187	**8**	**7**	**7**
	R	11/17	Bond enthalpies		Ch. 8 p. 315-321			
12	T	11/22	Foods, fuels, current events in chemistry		Ch. 5 p. 188-194	**EXAM 4 – Mon 11/21 @ 5:30 PM**		
	R	11/24	**Happy Thanksgiving!**					
13	T	11/29	Gas laws	**A** No lab **B** Project lab	Ch. 10 p. 383-399	**9**	**8**	**8**
	R	12/1	Gases cont.		Ch. 10 p. 399-413			
14	T	12/6	Liquids, phase changes, heating curves	**A** Project lab **B** No lab	Ch. 11 p. 437-448	**10**	**9**	**9**
	R	12/8	Solids – metals		Ch. 11 p. 448-452 Ch. 12 p. 463-476			
15	T	12/13	Solids – ionic and network covalent	Window on the Solid State	Ch. 12 p. 481-487	**11**	**10**	**10**
	R	12/15	Solids – band theory		Ch. 12 p. 476-481 487-490			

*Problem sets (PS) are due at the beginning of your Wednesday discussion section; quizzes are also administered at that time. Drop deadline is Friday, 11/4