

## 2009-2010 UWGB Chemistry Tentative Syllabus

Day	Date	Comments	Chp	Topics Discussed	Reading Assignment	Pages	Assessment
Monday	08/31/09	No School		No School			
Tuesday	09/01/09	Freshmen Orientation		No Class			
Wednesday	09/02/09	First day of school		Expectations	Lab Safety Rules		
Thursday	09/03/09			Lab Safety			
Friday	09/04/09	UWGB Orientation	1	Cont. of Lab Safety	Sec. 1.1 and 1.2	4-8	
Monday	09/07/09	Labor Day		Presentation of Lab Safety Rules			
Tuesday	09/08/09		1	<b>Lab Safety Test</b>	Sec. 1.3 - 1.7	8-20	
Wednesday	09/09/09		1	Notes on sec. 1.3-1.6: Matter/Measurement	Sec. 1.8	20-27	3, 4, 5, 6, 7, 8, 12, 16, 17, 18, 19, 22, 24, 25, 26
Thursday	09/10/09		1	Notes on sec. 1.8: Sig Figs	Sec 1.9	27-30	31, 32, 34, 36
Friday	09/11/09		1	Notes on sec. 1.9: Dimensional Analysis			37, 38, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 54, 55, 59, 64, 75, 76, 85
Monday	09/14/09		1	<b>Lab: Density of Diet and Regular Coke Lab</b>			post lab due Friday
Tuesday	09/15/09		1	Work Day			
Wednesday	09/16/09		2	<b>Chapter 1 Quiz</b>	2.1 and 2.2	42-49	
Thursday	09/17/09		2	Notes on sec. 2.1-2.2/Cathode Ray Demo/Rutherford Demo	2.3-2.6	49-58	2, 3, 8, 10, 11
Friday	09/18/09	Early Release	2	Notes on sec. 2.3 - 2.6: Atom. #/Iso./PT/Mol. & Ions/Emp. & Mol. Form.	2.7	59-68	16, 18, 20, 23, 24, 26, 27, 28, 30, 32, 34, 36, 40, 44, 46, 48
Monday	09/21/09		2	Notes on sec. 2.7: chem formulas and naming compounds	lab		55, 56, 57, 58, 61, 63, 64, 66, 68, 69, 88, 89
Tuesday	09/22/09		2	<b>lab</b>			post lab due Friday
Wednesday	09/23/09		2	Work Day			
Thursday	09/24/09		2	<b>Chapter 2 Quiz</b>	7.1-7.2	260-266	
Friday	09/25/09		7	Notes on sec. 7.1-7.2: Quantum Theory/Photoelectric Effect	7.3-7.4	266-276	3, 7, 8, 10, 15, 16, 17, 18, 19, 20
Monday	09/28/09		7	Notes on 7.3-7.4: Bohr's theory of H Atom/Dual Nature of the Electron	lab		25, 26, 30, 31, 32, 34, 39, 40, 42
Tuesday	09/29/09		7	<b>Lab: Det. the conc. of a solution: Beer's Law (Chem w/Comp)</b>			
Wednesday	09/30/09			<b>Lab: Det. the conc. of a solution: Beer's Law (Chem w/Comp)</b>	7.5-7.7	277-285	post lab due Monday
Thursday	10/01/09		7	Notes on 7.5-7.7: Quant. Mech. & Numbers/Atomic Orbitals	lab		46, 48, 52, 54, 55, 56, 57, 58, 60, 61, 62, 63, 64, 66, 67, 68, 69, 70
Friday	10/02/09		7	<b>Lab: Exp 16 Electromagnetic En. &amp; Spect. (Hein)</b>			
Monday	10/05/09		7	<b>Cont. Lab: Exp 16 Electromagnetic En. &amp; Spect. (Hein)</b>	7.8-7.9	285-295	post lab due Friday
Tuesday	10/06/09		7	Notes on 7.8-7.9: Electron Configuration			71, 72, 73, 74, 79, 80, 81, 82, 84, 85, 86, 92, 96, 114, 115, 117, 120
Wednesday	10/07/09		7	Work Day			
Thursday	10/08/09		7	<b>Chapter 7 Quiz</b>			
Friday	10/09/09			Chapter 1, 2, and 7 Review			
Monday	10/12/09			<b>Unit I Test: Chapters 1, 2, &amp; 7 Part I</b>			
Tuesday	10/13/09			<b>Unit I Test: Chapters 1, 2, &amp; 7 Part II</b>	3.1-3.4	76-84	
Wednesday	10/14/09		3	Notes on sec. 3.1 -3.4: Atomic Mass/Molar Mass/Beg. Stoich/Mass Spect.	3.5-3.7	84-95	5, 6, 11, 12, 14, 16, 18, 20, 22, 24, 25, 26, 28, 30, 33, 34
Thursday	10/15/09		3	Notes on sec. 3.5-3.7: % comp/Emp. & Mol. Form./Bal. Rxns	3.8-3.10	95-104	41, 43, 45, 46, 48, 50, 52, 54, 60
Friday	10/16/09	Early Release Day	3	Go over Unit I Test or catch up on notes or start lab	lab		
Monday	10/19/09		3	<b>Lab: Determination of Chem. Form. (Adv. Chem. w/Vernier)</b>			
Tuesday	10/20/09		3	Notes on sec. 3.8-3.10: Stoich/Limiting Reactants/% Yield or catch up on lab			64, 66, 68, 70, 72 (not at STP), 73, 76
Wednesday	10/21/09		3	Notes on sec. 3.8-3.10: Stoich/Limiting Reactants/% Yield			83, 84, 86, 89, 91, 93, 94, 104, 106, 113

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Thursday	10/22/09		3	Work Day			
Friday	10/23/09		3	<b>Chapter 3 Quiz</b>	4.1-4.2	116-121	
Monday	10/26/09		4	Notes on 4.1-4.2: Prop. Of Aqueous solns/Precip Rxns	lab		2, 5, 7, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24
Tuesday	10/27/09		4	<b>Lab: Double Displacement Reactions and Solubility (Flinn Vol 6)</b>	4.3	121-126	post lab due Monday
Wednesday	10/28/09		4	Notes on 4.3: Acid/Base Rxns	4.4	126-139	29, 30, 31, 32, 33, 34
Thursday	10/29/09	No School		No School			
Friday	10/30/09	No School		No School			
Monday	11/02/09		4	<b>Quiz on Solubility Rules</b>			
Tuesday	11/03/09		4	Notes on 4.4: Oxidation/Reduction Rxns			38, 40, 43, 44, 45, 46, 47, 49, 50, 52, 54, 55, 56
Wednesday	11/04/09		4	Cont. notes on 4.4 oxidation/reduction rxns			
Thursday	11/05/09		4	Cont. notes on 4.4 oxidation/reduction rxns	19.1	798-800	
Friday	11/06/09	End of 1st Qt	19	Notes on 19.1: Redox Reactions			1,2
Monday	11/09/09		19	Cont. notes on 19.1: Redox Reactions	4.5	139-142	
Tuesday	11/10/09		4	Notes on 4.5: Concentration of Solutions	4.6	143-145	59, 60, 64, 69, 70, 72, 74
Wednesday	11/11/09		4	Notes on 4.6: Gravimetric Analysis	4.7-4.8	145-150	77, 78, 79, 80
Thursday	11/12/09		4	Notes on 4.7-4.8: Acid-Base Titrations/Redox Titrations			82, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96
Friday	11/13/09	Early Release Day	4	Cont. Notes on 4.7-4.8: Acid-Base Titrations/Redox Titrations	lab		99, 109, 126, 128
Monday	11/16/09		4	<b>Lab: Neutralization--Titration I (Hein)</b>			post lab due Friday
Tuesday	11/17/09		4	<b>Lab: Neutralization--Titration I (Hein)</b>			
Wednesday	11/18/09		4	work day			
Thursday	11/19/09		4	<b>Chapter 4 Quiz</b>			
Friday	11/20/09	Early Release Day		<b>Chapter 4 Quiz</b>			
Monday	11/23/09			Go over quizzes			
Tuesday	11/24/09			Liquid Nitrogen Day	6.1-6.3	216-225	
Wednesday	11/25/09	Thanksgiving Vacation		No School			
Thursday	11/26/09	Thanksgiving Vacation		No School			
Friday	11/27/09	Thanksgiving Vacation		No School			
Monday	11/30/09		6	Notes on 6.1-6.3: Nature of En/En. Changes/Intro to thermodyn.	6.4	225-230	1, 11, 16, 18, 20
Tuesday	12/01/09		6	Notes on 6.4: Enthalpy of Chemical Reactions	6.5	230-237	24, 25, 26, 27, 28
Wednesday	12/02/09		6	Notes on 6.5: Calorimetry	6.6	237-243	32, 33, 34, 36, 37
Thursday	12/03/09		6	Notes on 6.6: Standard Enthalpy of Formation and Reaction	lab		46, 48, 52, 54, 57, 59, 61, 62, 63
Friday	12/04/09		6	<b>Lab: Thermochemistry and Hess's Law (Vonderbrink)</b>			post lab due Tuesday
Monday	12/07/09		6	<b>Lab: Thermochemistry and Hess's Law (Vonderbrink)</b>	6.7	243-245	
Tuesday	12/08/09		6	Notes on 6.7: Heat of Solution and Dilution			67, 70, 73, 76, 82, , 87, 88, 100, 108, 110
Wednesday	12/09/09		6	work day			
Thursday	12/10/09		6	<b>Chapter 6 Quiz</b>			
Friday	12/11/09			Review for unit II test			
Monday	12/14/09			<b>Unit II Test: Chapters 3, 4, &amp; 6 Part I</b>			
Tuesday	12/15/09			<b>Unit II Test: Chapters 3, 4, &amp; 6 Part II</b>			

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Wednesday	12/16/09			Prepare for Student Demo day			
Thursday	12/17/09			Student Demo day			
Friday	12/18/09	Early Release Day		Go over Unit II Test			
Monday	12/21/09			Holiday Chemist-tree Demo Day			
Tuesday	12/22/09			Holiday Chemist-tree Demo Day			
Wednesday	12/23/09			Holiday Chemist-tree Demo Day	8.1-8.2	306-312	
Thursday	12/24/09	Winter Vacation		No School			
Friday	12/25/09	Winter Vacation		No School			
Monday	12/28/09	Winter Vacation		No School			
Tuesday	12/29/09	Winter Vacation		No School			
Wednesday	12/30/09	Winter Vacation		No School			
Thursday	12/31/09	Winter Vacation		No School			
Friday	01/01/10	Winter Vacation		No School			
Monday	01/04/10		8	Notes on 8.1 and 8.2: Dev. Of PT/Class. Of Elements	8.3	312-318	1, 4, 5, 9, 13, 16, 19, 20, 22, 23, 24, 28, 29, 30, 32
Tuesday	01/05/10		8	Notes on 8.3: Periodic Variation in Physical Properties	8.4-8.5	319-325	34, 35, 36, 37, 40, 43, 44, 45, 46, 47, 48
Wednesday	01/06/10		8	Notes on 8.4 and 8.5: Ionization Energy and Electron Affinity	Lab		49, 52, 54, 55, 56, 59, 61, 62, 64
Thursday	01/07/10		8	<b>Lab</b>			post lab due Tuesday
Friday	01/08/10		8	<b>Lab</b>	8.6	325-337	
Monday	01/11/10		8	Notes on 8.6: Variation in Chemical Properties of Rep. Elements			65, 66, 68, 69, 70, 71, 72, 74,75, 81, 131, 134
Tuesday	01/12/10		8	work-day			
Wednesday	01/13/10		8	<b>Chapter 8 Quiz</b>	9.1 and 9.2	346-349	
Thursday	01/14/10		9	Notes on 9.1 and 9.2: Lewis Dot Structures/The Ionic Bond	9.3	349-354	3, 5, 6, 13, 16, 18, 20
Friday	01/15/10		9	Notes on 9.3: Lattice Energy of Ionic Compounds	9.4-9.5	354-360	21, 23, 25, 26
Monday	01/18/10		9	Notes on 9.4 and 9.5: The Covalent Bond/Electronegativity			27, 30, 31, 33, 34, 35, 36, 37, 38, 39, 40
Tuesday	01/19/10			Review for Final Exams			
Wednesday	01/20/10			<b>Final Exams</b>			
Thursday	01/21/10			<b>Final Exams</b>	9.6-9.8	360-367	
Friday	01/22/10	Early Release Day		<b>Finals Make-up Day</b>			
		End of 1st Semester					
Monday	01/25/10		9	Notes on 9.6-9.8: Writing Lewis Struct./Formal Charges/Resonance	9.9	367-372	43, 44, 45, 46, 47, 48, 49, 51, 52, 54, 55, 56
Tuesday	01/26/10		9	Notes on 9.9: Exceptions to the Octet Rule	9.10	372-377	57, 63, 64, 65, 66
Wednesday	01/27/10		9	Notes on 9.10: Bond Energy			70, 72, 77,85, 89, 90
Thursday	01/28/10		9	Work Day			
Friday	01/29/10		9	<b>Chapter 9 Quiz</b>	10.1	386-395	
Monday	02/01/10		10	Notes on 10.1: Molecular Geometry	10.2-10.3	395-402	7, 8, 9, 10, 11, 12, 13, 14
Tuesday	02/02/10		10	Notes on 10.2 and 10.3: Dipole Moments/Valence Bond Theory	10.4	403-412	15, 19, 20, 21, 22, 23, 24, 25
Wednesday	02/03/10		10	Notes on 10.4: Hybridization of Atomic Orbitals	10.5-10.6	412-423	28, 34, 36, 37, 38, 39
Thursday	02/04/10		10	Notes on 10.5 and 10.7: Hybridization/Molecular Orbitals	10.8	423-425	31, 41, 42, 43, 44, 45, 52, 53, 54, 55, 59, 60
Friday	02/05/10		10	Notes on 10.8: Delocalized MO	lab		63,64, 65, 66, 79, 88
Monday	02/08/10		10	<b>Lab</b>			post lab due Wednesday

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Tuesday	02/09/10		10	<b>Chapter 10 Quiz</b>			
Wednesday	02/10/10		10	Work Day/Study Day			
Thursday	02/11/10			<b>Unit III Test: Chapters 8, 9, and 10 Part I</b>			
Friday	02/12/10			<b>Unit III Test: Chapters 8, 9, and 10 Part II</b>	5.1-5.2	164-169	
Monday	02/15/10	*****	5	Notes on 5.1 and 5.2: Sub. That Exist as Gases/Press. Of a Gas	lab		1, 2, 4, 5, 7, 8, 14
Tuesday	02/16/10		5	<b>Case File 11: Ashes to Ashes (TI Website)</b>	5.3	169-175	post lab due Friday
Wednesday	02/17/10		5	Notes on 5.3: The Gas Laws	5.4	175-183	16, 17, 19, 20, 21, 23
Thursday	02/18/10		5	Notes on 5.4: The Ideal Gas Equation	lab		29, 31, 32, 33, 35, 36, 37, 39, 40, 42, 43, 44, 45, 47, 49, 50
Friday	02/19/10		5	<b>Gas Laws (Adv. Comp. w/Vernier)</b>			Post lab due Wednesday
Monday	02/22/10		5	<b>Gas Laws (Adv. Comp. w/Vernier)</b>	5.5-5.6	184-191	
Tuesday	02/23/10		5	Notes on 5.5-5.6: Gas Stoich/Dalton's Law of Partial Pressures	5.7-5.8	191-201	52, 53, 55, 57, 59, 63, 64, 66, 67, 69
Wednesday	02/24/10		5	Notes on 5.7-5.8: The Kinetic Molecular Theory of Gases/Deviation from Ideal Behavior			75, 77, 78, 80, 85, 86, 88
Thursday	02/25/10	Early Release Day	5	work day			
Friday	02/26/10	Winter Break		No School			
Monday	03/01/10		5	<b>Chapter 5 Quiz</b>			
Tuesday	03/02/10		5	<b>Chapter 5 Quiz</b>	11.1-11.2	436-442	
Wednesday	03/03/10		11	Notes on 11.1 and 11.2: KMT of L and S/Intermolecular Forces	11.3-11.4	443-453	1, 6, 7, 8, 9, 10, 12, 13, 14, 16, 17, 18
Thursday	03/04/10		11	Notes on 11.3 and 11.4: Properties of Liquids/Crystal Structure	11.5-11.6	453-459	22, 25, 27, 28, 29, 31, 32, 37, 39, 42, 43
Friday	03/05/10		11	Notes on 11.5 and 11.6: X-Ray Diffraction by Crystal/Types of Crystals	11.7-11.8	460-471	46, 47, 48
Monday	03/08/10		11	Notes on 11.7 and 11.8: Amorphous Solids/Phase Changes	11.9	471-473	49, 50, 51, 52, 53, 54, 55, 57, 58, 59, 60, 62, 63, 65, 66, 68, 71, 72, 74, 77, 78, 79, 80, 81, 84, 86
Tuesday	03/09/10		11	Notes 11.9: Phase Diagrams	lab	lab	89, 90, 92, 93, 94, 134, 140
Wednesday	03/10/10		11	<b>lab</b>			
Thursday	03/11/10		11	<b>lab</b>			Post lab due Monday
Friday	03/12/10		11	Work day			
Monday	03/15/10		11	<b>Chapter 11 Quiz</b>			
Tuesday	03/16/10		11	<b>Chapter 11 Quiz</b>	12.1-12.3	488-493	
Wednesday	03/17/10		12	Notes on 12.1-12.3: Types of Solutions/Molecular View/Conc. Units	cont. 12.3-12.4	493-497	1, 2, 3, 4, 8, 9, 10, 11, 13, 15, 16, 17, 18, 19, 22, 23
Thursday	03/18/10	Early Release Day	12	Notes on 12.3-12.4: Comp. of Conc. Units/Effect of Temp. on Sol.	12.5-12.6	497-512	See yesterday's problems and 25, 27, 28
Friday	03/19/10						
Monday	03/22/10		12	Notes on 12.5-12.6: The Effect of Press. On the Sol. Of Gases/Collig. Prop. Of Nonelect. Solns			30, 31, 34, 35, 36, 37
Tuesday	03/23/10		12	Cont. notes on 12.6: Collig. Prop. Of Nonelectrolyte Solutions	lab		39, 40, 43, 44, 46, 47, 49, 51, 52, 53, 56, 57, 58, 59, 60, 61, 64, 65, 66, 68
Wednesday	03/24/10		12	<b>Lab</b>	12.7-12.8	512-518	post lab due Monday
Thursday	03/25/10		12	<b>Lab</b>			
Friday	03/26/10	Teacher In-Service		No Class			
		End of Third Quarter					
Monday	03/29/10		12	Notes on 12.7-12.8: Colligative Prop. Of Electrolyte Sol./Colloids			71, 72, 73, 75, 76, 77, 79, 81, 84, 89
Tuesday	03/30/10		12	work day			
Wednesday	03/31/10		12	Chapter 12 Quiz			
Thursday	04/01/10	Spring Break		<b>No School</b>			
Friday	04/02/10	Spring Break		<b>No School</b>			

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Monday	04/05/10	Spring Break		No School			
Tuesday	04/06/10			Review for Unit IV Test			
Wednesday	04/07/10		13	<b>Unit IV Test: Chapters 5, 11, and 12</b>			
Thursday	04/08/10		13	<b>Unit IV Test: Chapters 5, 11, and 12</b>	13.1	532-539	
Friday	04/09/10		13	Notes on 13.1: The Rate of a Reaction	13.2	539-543	1, 5, 6, 7, 8
Monday	04/12/10		13	Notes on 13.2: The Rate Law	13.3	543-550	10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 22
Tuesday	04/13/10		13	Notes on 13.3: First-Order Reactions	13.3	550-554	23, 24, 25, 27, 28
Wednesday	04/14/10		13	Cont. 13.3, if needed			
Thursday	04/15/10		13	Notes on 13.3: Second-Order Reactions	13.4 and lab	554-559	29, 30
Friday	04/16/10	Early Release Day	13	<b>lab</b>			
Monday	04/19/10		13	<b>lab</b>			post lab due Friday
Tuesday	04/20/10		13	Notes on 13.4: Act. En. And Temp. Dep. Of Rate Constants	13.5	560-566	31, 35, 37, 38, 39, 40
Wednesday	04/21/10		13	Notes on 13.5: Reaction Mechanisms	13.6	566-573	45, 47, 48, 51, 54
Thursday	04/22/10		13	Notes on 13.6: Catalysis			55, 56, 58, 59, 62, 64, 68, 73, 80, 102
Friday	04/23/10		13	work day			
Monday	04/26/10		13	<b>Chapter 13 Quiz</b>			
Tuesday	04/27/10		13	<b>Chapter 13 Quiz</b>	14.1-14.2	586-594	
Wednesday	04/28/10		14	Notes on 14.1 and 14.2: Concept of Equil./Writing Equil. Constant Expressions	cont. 14.2	594-599	2, 3, 5, 6, 7, 8, 9, 15, 16, 17, 18
Thursday	04/29/10		14	Cont. Notes on 14.2: Writing Equil. Constant Expressions	14.3-14.4	600-607	20, 21, 22, 25, 27, 28, 29, 30, 31, 32
Friday	04/30/10		14	Notes on 14.3 and 14.4: Chem. Kinetics and Chem. Equil./What does K tell us			33, 36
Monday	05/03/10		14	Cont. Notes on 14.4: What does K tell us			37, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48
Tuesday	05/04/10		14	<b>lab</b>			post lab due Monday
Wednesday	05/05/10		14	<b>lab</b>			
Thursday	05/06/10		14	Cont. Notes on 14.4: What does K tell us	14.5	607-616	
Friday	05/07/10	Early Release Day	14	Notes on 14.5: Factors that Affect Chem. Equilibrium	lab		53, 54, 56, 57, 58, 59, 60, 61, 62
Monday	05/10/10		14	<b>lab</b>			
Tuesday	05/11/10		14	<b>lab</b>			post lab due Friday
Wednesday	05/12/10		14	Work day			
Thursday	05/13/10		14	<b>Chapter 14 Quiz Part I</b>			
Friday	05/14/10		14	<b>Chapter 14 Quiz Part II</b>			
Monday	05/17/10			Prepare for Chemistry Fair/Study for Final Exams			
Tuesday	05/18/10			Prepare for Chemistry Fair/Study for Final Exams			
Wednesday	05/19/10			Prepare for Chemistry Fair/Study for Final Exams			
Thursday	05/20/10			Chemistry Fair			
Friday	05/21/10			Review for Finals			









