

Class, Laboratory, and Examination Schedule, Spring 2016

Date	Topics	Reading	Video	Online: Moodle / OWL	Laboratory / Moodle Pre-Lab Quizzes
W 1-20 Chem 1361	Introduction; Review of chemistry you should already know.	Review Ch. 1 Sec. 1-15; Ch. 2, Sec. 1-3, 10-12; Ch. 3 all Secs.; Appendix A, B	These optional video lectures are for review or to enhance understanding. 1 Light	OWL Intro Assignments (all four) due tonight at 11:55 PM. Begin working on Review Homework 1 and Homework 1 (see due dates below).	Attend all lecture and discussion classes this week. No lab this week. Purchase lab manual, notebook, goggles.
R 1-21 Sterling Hall 2425 or 3425	Atomic Spectra; Wave Properties; Atomic Energy Levels	Do before each class. Ch. 5, Sec. 1-6	2 Waves 3 E Levels 4 H At E Lev 5 Electron W 6 Particle-in-	Pre-Discussion Worksheet 01 is due at start of class today	Work on Moodle online quizzes: Safety, Acad. Honesty both due in lab next week. (These are in Moodle, not OWL.)
F 1-22 Chem 1361	Electron as a Wave; Quantum Numbers; Energy Levels; Electron Density; Atomic Orbital Shapes		7 E-lev Diag 8 Elec. Prob. 10 Elec. H At 1: H At Quan 12 Elec Scree 13 Elec Spin 17 Quan Nos	OWL Math Review and OWL Review Homework 1 due tonight at 11:55 PM	Come to lab starting Monday, Jan. 25. Hand in Lab Worksheet at start of lab. Start to work on Zinc and Iodine Pre-lab Quiz , due 1 hour before lab next week.
M 1-25 Chem 1361 Prof. J.R. Schmidt Beginning Assessment	Electron Configurations; Ion Electron Configs; Paramagnetism	Ch. 5, Sec. 7-8	14 C At Elec 15 E-lev Diag 16 At Orb Sh 18 Elec Cnfg 19 Paramag	OWL Homework 1 (HW#1) due Tuesday, Jan. 26 at 11:55 PM Start working on OWL Homework 2 (HW#2) and Review Homework 2 , both due Sunday, Jan. 31 at 11:55 PM	Check In; Lab Orientation: where things are in the lab. Zinc and Iodine experiment. Pre-lab quiz due 1 hour before lab.
W 1-27 Sterling Hall	Periodic Variation of At. Radii, I.E., E.A.; Eff. Nuclear Charge; Ionic Bonding; Prop. Ionic Cpds.	Ch. 5, Sec 9-13; Ch. 2, Sec. 4-6	20 Per Prop 21 Ionic Cpds 22 Prop Ionic 23 Form LiH 24 Ionic Radii	Pre-Discussion Worksheet 02 is due at start of discussion today. Window on the Solid State, Parts 1-4 (5 pts, access tutorial through Moodle); due Monday, Feb 1 at start of class.	

Date	Topics	Reading	Video	Online: Moodle / OWL	Laboratory / Moodle Pre-Lab Quizzes
R 1-28 Sterling Hall	Covalent Bonding; Molecular Orbitals;	Ch. 6, Sec. 1, Sec. 12 (parts a and b only)	25 Cov Bond 26 Molec Orb		
F 1-29 Chem 1361	Wrap-up Session			Homework 2 and Review Homework 2 both due Sunday, Jan 31 at 11:55 PM	
M 2-1 Prof. Danny Fredrick- son	Solid-State Structures; Lewis Structures	Ch. 9, Sec. 4 (parts a and b), Sec. 6 and 7; Ch. 6, Sec. 2, 4;	26 Molec Orb 28 Bond Struc	Window on Solid State (5 pts) due at start of class today. Work on Online Homework 3 (due Sunday, Feb 7 at 11:55 PM)	Modeling Solid Structures/Alum Crystals. Pre-lab quiz due 1 hour before lab.
W 2-3	Structures of Hydrocarbons; Isomerism	Ch. 6, Sec. 3; Ch.2, Sec. 7-9	29 Conform 30 Isomers	Pre-Discussion Worksheet 03 due at start of class today.	
R 2-4	Alkenes; Alkynes; cis- trans isomers	Ch. 6, Sec. 5	31 Reactivity Triple Bond	Start Excel Assgt. (directions in Moodle) Part 1 due next week.	
F 2-5	Wrap-up Session Review for Exam 1			Online Homework 3 due Sunday at 11:55 PM	
M Feb 8	Exam 1. 7:15 – 8:35 PM, location to be announced; Ch. 2 (Sec. 4-9); Ch. 5 (all); Ch. 6 (Sec. 6.1-6.5, parts a and b of Sec. 12); Ch. 9 (Sec. 9.4 parts a and b, 9.6, 9.7); Labs: Safety; Zn + I₂; Modeling Solid Structures; Review material from two review homeworks, Ch. 1-3, Appendixes A and B.				
M 2-8 Prof. Bob McMahon	Bond Length; Bond Energy Bond Polarity; Electronegativit y	Ch.6, Sec. 6-7		Work on Online Homework 4 (due Sun).	Hydroxyapatite Pre-lab quiz due 1 hour before lab.
W 2-10	Formal Charge; Resonance; Exceptions to Octet Rule	Ch. 6, Sec. 8-10		Pre-Discussion Worksheet 04 due at start of discussion today;	