

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
W	Aug 23		What is inorganic chemistry? Asking questions in inorganic chemistry, syllabus, Socrative response system	Bring computer or device to class
F	Aug 25	Read the syllabus, fill out class survey , do the rest of In Class Activity 1 and submit answers online , buy ebook and lab notebook if you don't have one already, read Chapter 2 up through section 2.8 and do the in text problems for participation credit	The periodic table and some basic chemistry concepts	
M	Aug 28	Read Chapter 3.1-3.4 and do in text questions	Laboratory basics, Classifications of compounds, some chemistry basics, nomenclature of ionic compounds	
T	Aug 29	Get lab notebook, Read the Lab Syllabus, Lab 1 and do the pre lab assignment	Laboratory Safety, Check into Lab, Lab 1: An Enigmatic Chemical Conundrum	
W	Aug 30	Read Chapter 3.5 and do in text questions	Finish nomenclature: nomenclature of covalent compounds, acids, and hydrates	Quiz on Element names (see handout, first 5 min of class)
F	Sept 1	Read Chapter 4, Section 4.1, 4.2, up to 4.4.2 and do questions in the text TopHat homework on nomenclature	Introduction to chemical reactions, electrolytes, representing chemical equations, precipitation reactions	

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
M	Sept 4	Read rest of Chapter 4 (including added section on complexation reactions) and do in text problems, Chapter 3 Homework Problems (due end of day Tuesday)	Chemical reactions continued (acid base, redox and complexation)	
T	Sept 5	Read Lab 2 and do the pre lab assignment, finish write up for Lab 1 (lab write up isn't due until tomorrow in class)	Lab 2: Recycling of Aluminum	
W	Sept 6	Read Chapter 5 (all sections) and Review Chapter 1 (scientific notation and unit conversion!), work on Chapter 4 Homework problems	In Class 3, Energy, atomic structure preliminaries	Quiz on nomenclature
F	Sept 8	Chapter 4 homework problems due Read Chapter 6 Do review questions on unit conversion and scientific notation in Chapter 1 if you are rusty!	Spectroscopy and light	
M	Sept 11	Chapter 6 Homework questions (no new reading)	Energy and quantization, Bohr model of the atom and energy levels of electrons	

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
T	Sept 12	Read Lab 3 and do prelab assignment (part of it is mostly completing lab 2 write up)	Lab 3: Reactions of Cu and Fe	
W	Sept 13	Chapter 6 Homework, In Class 4 Read Chapter 7, Section 7.1-7.3	Go over In Class 4, Quantum Theory and radial probability diagrams	Bring your computer to class
F	Sept 15	Lab 2 and lab notebook pages are due, start Homework Chapter 7, spend some time on the website The Orbitron exploring and reading about orbitals	More fun with orbitals and quantum numbers	
M	Sept 18	Read rest of Chapter 7, start Chapter 7 homework questions (due Wed)	Electron configurations of atoms, paramagnetic and diamagnetic atoms	
T	Sept 19	Read Lab 4 and do prelab! Finish Lab 3 but I won't collect it until Friday so you can use it to study equations!	Lab 4: Identification of a Soluble Ionic Compound, Week 1	
W	Sept 20	Complete In Class 5 for Homework, Work on Chapter 7 homework text questions	Introduction to periodic properties, Zeff, charges on ions	

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
R	Sept 21	<p>Old exam questions that are relevant for our exam:</p> <p>Exam 1 Fall 2016: All questions</p> <p>Exam 1 Spring 2017: All questions</p> <p>Exam 2: Spring 2017: 5a, d, Finish Chapter 7 questions through 7.37</p>	Q&A Session, Julian 368, 3-5 pm	Come with your questions about homework problems, quizzes, in class problems, old exams, concepts, etc!
F	Sept 22	<p>Study for EXAM I</p> <p>Turn in Lab 3 (it should already be done!)</p>	EXAM I in class	Bring a scientific calculator
M	Sept 25	Re-read the last couple sections of Chapter 4, do in text problems for those sections	Talk about 1st exam, periodic properties con't: Sizes of atoms and ions, ionization energies and electron affinities	
T	Sept 26	Prelab for week 2 of Lab 4	Lab 4: Identification of a Soluble Ionic Compound, Week 2	
W	Sept 27	NO CLASS	ATTEND DEPAUW DIALOGUE	
F	Sept 29	Exam corrections due, Homework problems on periodic properties, Chapter 7	Periodic properties con't	

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
M	Oct 2	In Class worksheet 6 is due, Read Chapter 8 (all sections!) and do in text questions, do any remaining homework questions in Chapter 7	Go over In Class 6, Introduction to Covalent Bonding	
T	Oct 3	Turn in Lab 3 if you haven't already, meet in the computer lab (behind our classroom), read Lab 5, Read and do text questions for sections, read Chapter 9, sections 9.1-9.3	In Lab: Resonance Structures, VSEPR, Molecular Geometry, Electronegativity and formal charges, start Lab 5	
W	Oct 4	Read Chapter 9, Section 9.4 and do in text questions, Homework questions Chapter 8	Continue Lab 5, meet in regular classroom, but we'll go to the computer lab!	
F	Oct 6	Lab 4 is due, work on homework questions Chapter 9 (not due yet)	Continue Lab 5?, Polarity	
M	Oct 9	Read Section 9.6 and do in text questions	Valence Bond Theory	
T	Oct 10			

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
W	Oct 11		Inequivalent resonance structures, complete In Class 8	
F	Oct 13	Study for the exam!	Exam II in class!	
Fall Break !	Oct 16 - 20			
M	Oct 23		Intro to solid state structures	
T	Oct 24			
W	Oct 25	Read Chapter 5, Section 5.4, 5.5 Socratic questions	Polarity and introduction to Valence Bond Theory	
F	Oct 27		VB Theory	

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
M	Oct 30			Quiz on polarity and VB Theory
T	Oct 31			
W	Nov 1		MO Theory	
F	Nov 3		Ionic and metallic bonding, structures of solids	
M	Nov 6		Properties of solids	Quiz on VB Theory and MO Theory
T	Nov 7			
W	Nov 8		Finish up solids, introduction to acid base chemistry	

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
F	Nov 10		Introduction to Acid-Base Chemistry, K_a , K_b — No Class— I am presenting at a conference— but watch screencast—link TBA	
M	Nov 13	<p>Read: http://www.chemguide.co.uk/inorganic/complexions/acidity.html</p> <p>http://chemwiki.ucdavis.edu/A analytical Chemistry/Analytical Chemistry 2.0/06 Equilibrium Chemistry/6F%3A Ladder Diagrams</p>	Acid base properties metal ions, ladder diagrams	Quiz on Solids
T	Nov 14			
W	Nov 15		Predicting the favorability of acid base reactions	
F	Nov 17		Trends in acidity and basicity, Acid base properties of salts, Redox maybe	

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
T	Nov 21		No lab this week because of Thanksgiving break!	
W, F	Nov 22, Nov 24		No Class, Thanksgiving Break	
M	Nov 27		Introduction to Redox chemistry, electrochemical potentials	
T	Nov 28			
W	Nov 29		Calculating E°_{rxn} , predicting products and reactions, batteries and applications of redox	
F	Dec 1		Batteries	
M	Dec 4		Intro to coordination chemistry and types of ligands	Quiz on Redox and Electrochemistry

Day	Date	Homework	In Class Activities, Topics, Learning goals	Special Notes
T	Dec 5		Check out of lab, check crystals, Review old exams, Juilan Auditorium	
W	Dec 6		Crystal field theory and colors of coordination complexes	
F	Dec 8		Crystal Field Theory with Review	
F	Dec 15 8:30 am - 11:30 am	Study for final exam!	Cumulative Final Exam (approx 40% new material since the last exam), will be administered in two sessions with a break in between	