

Day	Date	Homework	In Class Activities	Special Notes
M	Feb 1		Background knowledge probe, 12 Essential concepts, C&E News Why Is Inorganic Chemistry Important	
W	Feb 3	Fill out Student information form , Read Chapter 1, Chapter 2, Section 2.1, 2.2	The periodic table, atomic orbital basics, the periodic table	
M	Feb 8	Redo 12 Essential Concepts , Read Chapter 2, Section 2.3	the Orbitron , Radial Probability diagrams	**Bring your computers to class**
W	Feb 10	No new reading, Try to answer periodic trends worksheet BEFORE class (this is somewhat review so I will intersperse activities and mini lectures)	Periodic trends	Wear comfortable clothing :)
M	Feb 15	Read 9.4, 9.5, plus review notes on coordination chemistry from Chem 130	Basics of coordination chemistry (for comp exam takers) :, we'll come back to this again soon	
W	Feb 17	Review crystal field notes from 130 and/or read 10.2.1	Crystal Field Theory and colors of coordination complexes (basic)	
M	Feb 22	Read Chapter 3	Basic covalent bonding	

Day	Date	Homework	In Class Activities	Special Notes
W	Feb 24	Read 4.1, 4.2, Bonding Worksheet	Introduction to Symmetry	
M	Feb 29	Problem set 1 is due	Finish symmetry operations, point groups of molecules	
W	Mar 2	Symmetry worksheet for homework	Point group worksheet, understanding symmetry labels of orbitals (end of material for exam)	
M	Mar 7	Problem Set 2 Symmetry due, read Chapter 5.2, 5.3	Review for the test, problem set questions	
W	Mar 9	Study for Exam	Exam in class (you can have up to 30 extra min on one side or the other), I will show up at noon	
M	Mar 14	Read Chapter 5.2, 5.3	Diatomic MO theory	
W	Mar 16	Read Adam Johnson's MO of Polyatomic J Chem Ed article: http://pubs.acs.org/doi/abs/10.1021/ed300115t	MO Theory of Polyatomics	

Day	Date	Homework	In Class Activities	Special Notes
M	Mar 28	LGO Problems that I assigned in class last time	MO theory continued (dealing with hypervalency and lone pairs)	
W	Mar 30		MO theory with lone pairs	
M	Apr 4	Problem Set 3 (due under my door by 8 am), check out pen cast MO videos if you like for additional examples	Talk about problem set, MO Theory of transition metal complexes (pi acceptors and pi donors)	
W	Apr 6	No Class	Day of Inclusion	
M	Apr 11	Read about the 18 electron rule (Chapter 13)	The 18 electron rule and counting electrons in transition metal complexes	
W	Apr 13	Read 13.4-13.52	Modes of bonding in organometallic compounds	
M	Apr 18	Read 14.1 -14.3	Finish up bonding, reaction types brief intro to catalytic cycles	

Day	Date	Homework	In Class Activities	Special Notes
W	Apr 20	Paper discussion, complete discussion questions before class: can split but be ready to answer any, enter 5 Slides About Topic in Google Doc	Paper discussion	
M	Apr 25	Fill out rectangles in handout	Catalytic cycles	
W	Apr 27	Read Chapter 16 (provided)	Bioinorganic chemistry	
M	May 2	Read bioinorganic literature discussion	Bioinorganic Lit Discussion (meet at 11:50, lunch provided)	
W	May 4		Solid State Chemistry (enough to help you guys understand some of the presentations!)	
M	May 9	5 Slides About presentations	5 Slides About presentations	
W	May 11	5 Slides About presentations	5 Slides About presentations	

Day	Date	Homework	In Class Activities	Special Notes
M	May 16 8:30 AM	Study for Final Exam	Final (will include a literature component—paper provided ahead of time)	