

Day	Date	Homework	In Class Activities	Special Notes
W	Aug 23		Background knowledge probe, 13 Essential concepts, Inorganic ASAP TOC Activity	
F	Aug 25	Read Chapter 1, Chapter 2, Section 2.1, 2.2, <b>Redo your 13 Essential concepts paper</b>	In Class Atomic Orbitals exercise, <a href="#">the Orbitron</a>	<b>**Bring your computers to class**</b>
W	Aug 30	Read Chapter 2, Section 2.3, <b>Finish first literature assignment, Socratic atomic orbital questions (just a few!)</b>	Periodic trends	<b>**Bring your computers to class**</b>
F	Sept 1	Read Chapter 3 (won't do much with 3.4), <b>do worksheet that I gave you on periodic properties, be ready to put some of them on the board</b>	More periodic trends, simple bonding models	
W	Sept 6	<b>Finish periodic trend and bonding problems, review bonding models for some in class practice!</b>	Simple bonding models and applications	
F	Sept 8	Skim Chapter 9, particularly 9.5, I'll be taking a slightly different approach to this material	Understanding coordination complexes and ligands, the advanced version!	
W	Sept 13	Read Chapter 4, Section 4.1, 4.2 <b>Homework: Analyze three more compounds in the current issue of IC the way we did in class (see handout)</b>	Symmetry	

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F	Sept 15	Read 4.3, find symmetry in handout figures	Point groups	
W	Sept 20	Do worksheet on point groups	More point groups and applications of symmetry (the simplified version!)	
F	Sept 22	Read Chapter 5, Section 5.1-5.3	Review of diatomic MO theory (and some symmetry applications)	
W	Sept 27	<b>NO CLASS</b>	<b>ATTEND DEPAUW DIALOGUE</b>	
F	Sept 29	Read <a href="#">J. Chem Ed. Article by Adam Johnson</a>	Intro to polyatomic MO theory	
W	Oct 4	Do MO diagram for square planar CH <sub>4</sub> for homework!, Re-read sections of paper on lone pairs and hypervalent bonding	How to deal with hypervalent molecules and lone pairs	
F	Oct 6	Work on MO Problem set, <b>turn in by 8 am Monday</b>	MO Practice in class	

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W	Oct 11	Study for midterm	<b>Mid-Term Exam (1 h but can come up to 30 min early if you like)</b>	
F	Oct 13	No new reading	MO Theory for compounds with lone pairs	
W	Oct 25		More MO examples of compounds with lone pairs	
F	Oct 27	Skim Bioinorganic Chapter, Read 6.6	HSAB and Coordination Chemistry Reaction trends	
W	Nov 1	No new reading	Intro to Bioinorganic Chemistry	
F	Nov 3	Go to speaker's talk, read assigned paper and answer half of the discussion questions	Biomimetic Paper discussion in class	
W	Nov 8	<b>Paper discussion questions are due</b>	Some Bioinorganic Case Studies, review of some basic Solid State Chemistry	

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F	Nov 10	Read Chapter 7.1-7.2 (Review from Chem 130) and Read 7.3	Band Theory of Semiconductors and Solid State Devices	
M	Nov 13	Read Amy's paper for literature discussion and do discussion questions as indicated	Amy Prieto literature discussion (with Amy Prieto!)	
W	Nov 15	Read 10.2, 10.3	MO Theory of Transition Metal Complexes: Ligand Field Theory	
F	Nov 17		No Class because of extra Monday class!	
W	Nov 29	Read Chapter 13, Sections 13.1-13.4	18 Electron Rule	
F	Dec 1	Read Chapter 14, Sections 1-3	Organometallic reactions	
W	Dec 6	Prepare for presentations	Presentations	

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<b>F</b>	<b>Dec 8</b>	<b>Prepare for presentations</b>	Presentations	
<b>R</b>	<b>Dec 14</b> <b>8:30</b> <b>AM</b>	<b>Study for Final Exam</b>	<b>Final (will include a literature component – paper provided on Dec 8)</b>	