

#	Day	date	topic	reading	course due dates	lab due dates
<b>Unit II: CFT and magnetism</b>						
1	W	1/22/20	Intro to course, coordination complexes (definitions, nomenclature)	15.2, 15.4, article		
2	F	1/24/20	Crystal field theory (Oh)	4.1, 4.6, 16.2		
3	M	1/27/20	CFT D4h, UV-Vis, terms, TS diagrams	4.5, 4.6, 16.6		
4	W	1/29/20	CFT TD, finish TS, magnetism intro	16.7, 16.2, 15.6	<b>quiz 1 on classes 1-4</b>	
5	F	1/31/20	Measuring magnetic properties (Evans method)	15.6	<b>quiz 1 due</b>	
6	M	2/3/20	symmetry elements and operations (E, Cn, Sn, i, s)	8.1		
7	W	2/5/20	Point groups and character tables (flowchart, reading table)	8.3-8.5		
8	F	2/7/20	IR of metal complexes (theory, selection rules, cartesian bases, water)	8.7, 9.1-9.3	<b>quiz 2 on classes 5-8</b>	<b>scifinder exercise</b>
9	M	2/10/20	IR of transition metal complexes, (CO as basis)	9.3, 18.3	<b>quiz 2 due</b>	
<b>Unit III: Structure and bonding in main group and coordination compounds</b>						
10	W	2/12/20	Lewis, VSEPR, VBT	6.1, 6.2, 6.4, 7.1, 10.1		
11	F	2/14/20	diatomic MO diagrams	10.2		<b>rotation 1 group data</b>
12	M	2/17/20	LGO 1	10.3	<b>quiz 3 on classes 9-12</b>	
13	W	2/19/20	LGO 2		<b>quiz 3 due</b>	
14	F	2/21/20	LGO 3, lone pairs	jchem ed article		<b>lab report 1</b>
15	M	2/24/20	in class LGO/MO			
16	W	2/26/20	MOT at the board Oh, Td, D4h	16.3, 16.19, 16.20	<b>quiz 4 on classes 13-16</b>	
17	F	2/28/20	MOT at the board, Oh and pi bonding	16.3	<b>quiz 4 due</b>	
18	M	3/2/20	Finish MO/review day			
19	W	3/4/20	self-guided tour of nomenclature or Werner lecture	15.1-2, 15.4, 15.5, 16.8(?)		
<b>Unit IV: Coordination and Organometallic chemistry</b>						
20	F	3/6/20	Werner complexes	Werner nobel lecture	<b>midterm 1 handed out (1-18)</b>	
21	M	3/9/20	CFAE, dissociative	17.1, 17.2 (fig 17.5, table 17.5)		
22	W	3/11/20	d4h assoc, trans effect	17.3		
23	F	3/13/20	eyring	curve fitting handout	<b>midterm 1 due</b>	<b>rotation 2 group data</b>
	M	3/16/20	<b>spring</b>			
	W	3/18/20	<b>break</b>			
	F	3/20/20	<b>break</b>			
	M	3/23/20	<b>ACS meeting</b>			
24	W	3/25/20		handouts	<b>quiz 5 on classes 19-24</b>	
	F	3/27/20	<b>cesar chavez day</b>			<b>lab report 2</b>
25	M	3/30/20	Om history ligands 1		<b>quiz 5 due</b>	
26	W	4/1/20	Om history ligands 2			
27	F	4/3/20	OA/RE			
28	M	4/6/20	insert/elim	handouts	<b>quiz 6 on classes 25-28</b>	
29	W	4/8/20	H2, Hform, Monsanto	handouts	<b>quiz 6 due</b>	
30	F	4/10/20	Pd	handouts		
31	M	4/13/20	olefin metathesis, Sharpless, Heaton	handouts		

32 W 4/15/20 goldberg lit discussion  
33 F 4/17/20 chalk or catalysis review or intro to bioinorganic

**Unit V: Bioinorganic chemistry and physical methods**

34 M 4/20/20 intro to bioinorganic  
35 W 4/22/20 metals and ligands  
36 F 4/24/20 experimental techniques  
37 M 4/27/20 MMO  
38 W 4/29/20 nitrogenase  
39 F 5/1/20 the future of inorganic chemistry

5/4 - 5/6 presentation days

5/7 - 5/8 senior finals

5/11 9am final exam

handouts  
handouts

handouts  
handouts  
handouts  
handouts  
handouts

quiz 7 on classes 29-32  
quiz 7 due

Midterm 2 handed out

midterm 2 due

rotation 3 group data

lab report 3

rotation 4 group data

lab report 4; portfolio