Advanced Inorganic Chemistry, Chem 4380 Spring 2016 CRN 23436

	Lectu	ure (Laney 10	05): TTh 8:00 – 9:1	5 am			
Instructor	Dr. Patrick Desrochers		Web Page:				
	Ofc: Laney-Manion 205 Ph: 450-5936		faculty.uca.edu/patrickd/chem4380/main4380.html username = chem4380 password =				
Office hours	Drop in times: M 12-1p Tu Other times available by appoin	3-4p W 1-3p tment.		-			
Text	Inorganic Chemistry (5 th Ed.): ISBN 1-4292-1820-7 W.H. Freeman & Co. (c) 2010. P. Atkins, T. Overton, J. Rourke, M. Weller, F. Armstrong, M. Hagerman						
Grading	category	possible points	your percent in the category		your points in the category		
	literature studies	10		Use your pct to			
	quizzes	20		determine your			
	two-page essay	10		points in each			
	exams	40		category.			
	Tinal exam (Apr 28)	20		VOUD TOTAL -			
	The lowest guiz and hour a	100 wam will had	ronned Final aven	YOUR IDIAL =	nad		
	The lowest quiz and nour e		C (0.70)	$\frac{1}{2} \frac{1}{2} \frac{1}$	ped.		
	Grades: A 89 - 100	points B/S	9-88 C 69-78 I	D 5/-08 F < 5/			
	UCA adheres to the requirement	ts of the America	ons with Disabilities Ac	• t A student with a doc	umented disability		
	(e.g., physical, learning psychiat	tric, vision, heari	ng. etc.) who needs to a	arrange reasonable acco	ommodations must at the		
	beginning of the semester contact	ct the instructor a	and UCA Office of Disa	ability Services at 450-	3135.		
Literature Studies	You will periodically be asked to peruse the current inorganic literature (current 2016 only) and cull an article that illustrates some topic related to current lecture discussions. Requests for these will be announced in class. Consult my website for examples. These brief summaries can be sent to me via e-mail.						
Homework	You learn a new skill best by doing. Specific homework problems representative of the material discussed in lecture and the text will be recommended on the Daily Boardlist. Work these problems on a regular basis as they are assigned each day. You must regularly work and <i>understand</i> these problems to do well on quizzes and exams.						
Weekly Quizzes	10 min quizzes will be given every week in lecture to gauge your progress in understanding lecture material as well as the assigned practice homework. These will be announced one day before they are given.						
Two-page Essay	During the semester, you will be writing an essay of two pages in length. In it you will discuss the importance of the periodic table. To improve the quality of your writing, I have enlisted the help of the UCA writing center. Tutors there have agreed to serve as email partners for you to receive feedback and to ask you questions about your topic. Your email answers to their questions are intended to provide you seeds for your final essay. I expect you to discuss your essays with me during office time. For additional specifics see information on my website.						
Policies	1. <u>Attendance</u> People who miss classes typically do poorly in this course. Do not be one of these people. Three unexcused absences will result in a WF grade in a senior-level course. Don't do this. It is the student's responsibility to obtain information covered during an absence.						
	2. <u>Office Hours</u> This time is specifically set asid If you cannot make the schedule	e for you to ask r ed times, make ar	me questions and receiv nother arrangement with	ve help on course mater n me.	rial. Use this time!		
	3. <u>Makeups, late work</u> No makeup quizzes or exams will be offered. A missed quiz or exam will be dropped as your lowest score.						
	4. <u>Academic misconduct (cheating/plagiarism)</u> "In the event an instructor determines that a student has engaged in academic misconduct, the instructor will notify the student of the allegation and the basis on which it is made and inform him/her of the action or sanction the instructor deems appropriate, consistent with the terms of section E of this policy." p 34 <u>UCA Student Handbook</u> .						
	5. <u>Title IX disclosure</u> Attached at the end of this syllabus.						
	6. Lanev-Manion Emergency Procedures Attached at the end of this syllabus						

Study Sessions and Exam Schedule

Date		Chapter: Topic	HW to work is posted of	on Daily Outline	Assigned chapter reading
Jan 7	Th	Ch. 1: Atomic Structure			Sec. 1.3 – 1.9
12	Т				
14	Th				
19	Т	Ch. 2: Mol. Structure and Bonding	Sec. 2.1 – 2.12, Sec. 8.8		
21	Th				
26	Т				
28	Th				
Feb 2	Т	FIRST EXAM (Ch. 1 and 2)			
4	Th	Ch. 6: Molecular Symmetry	Sec. 6.1 – 6.10, Sec. 8.4		
9	Т				
11	Th				
16	Т				
18	Th	Ch. 3: Solids	2nd EXAM Ch 2 & 6	Essay Due	
23	Т		W 3-415 pm Feb 24		Sec. 3.1 – 3.15, Sec. 8.1 – 8.2
25	Th	Ch. 4: Acids and Bases			
Mar 1	Т				Sec 4.1 – 4.10, 4.12
3	Th	Ch. 5: Redox		ļ	
8	Т		3rd EXAM Ch 3 & 4 W 3 415 pm Mar 9		Sec. 5.1 – 5.13, p 249
10	Th		w 5-415 pm Mar 9		
15	Т	ACS National Meeting, no class			
17	Th	Chapter 7: Coordination Compounds	Sec. 7.1 – 7.14		
22, 24		Spring Break			
29	Т	Ch. 20: Electronic structure and spect	Sec. 20.1 – 21.6, Sec. 8.3		
31	Th	Magnetism	Sec. 8.6, p 249		
Apr 5	Т	Ch. 21: Thermodynamics	Sec. 21.1 – 21.2		
7	Th	Kinetics			
12	Т	FOURTH EXAM (Ch. 5, 7, 20, 21 as			
14	Th	Ch. 22 Organometallics and Catalysis	Ch22 Sec.1-3,5-9,14,18,22,24-25		
19	Т				
21	Th				
Apr 28	Th	COMPREHENSIVE FINAL 8:00 – 	10:00 am		

Answers to end-of-chapter exercises are in the back of the text. Work these as assigned on the boardlist to prepare for quizzes and exams. If you keep to this habit you will be able to see me with questions well in advance of quizzes and exams.