

Chemistry 3020

Intermediate Inorganic Chemistry 1
Winter Semester 2008
4:30-5:50 p.m. TTh
121 Old Main

Professor Matthew J. Allen
Office: 243 Chemistry
TEL: (313) 577-2070
EMAIL: mallen@chem.wayne.edu

TENTATIVE LECTURE SCHEDULE (EXAM DATES ARE FIRM)

DATES	SUBJECT	CH	HW
1/8, 1/10	Introduction and Atomic Properties	1	
1/15, 1/17, 1/22, 1/24	Molecular Structure and Bonding	2	H1 in class 1/24
1/29	Solid State Structure and Bonding	3	
1/31	Acid and Base Chemistry	4	
2/5	FIRST EXAM		
2/7	Oxidation and Reduction	5	H2 due 2/14
2/12, 2/14, 2/19	Molecular Symmetry	7	H3 in class 2/19
2/21	Hydrogen	9	
2/26	Group 1 (Li, Na, K, Rb, Cs, Fr)	10	
2/28	Group 2 (Be, Mg, Ca, Sr, Ba, Ra)	11	
3/4	Group 13 (B, Al, Ga, In, Tl)	12	
3/6	SECOND EXAM		
3/11-3/13	SPRING BREAK		
3/18, 3/20	Group 14 (C, Si, Ge, Sn, Pb)	13	H4 due 3/25
3/25, 3/27	Group 15 (N, P, As, Sb, Bi)	14	H5 due 4/3
4/1, 4/3	Group 16 (O, S, Se, Te, Po)	15	
4/8	Groups 17 & 18 (F, Cl, Br, I, At & He, Ne, Ar, Kr, Xe, Rn)	16,17	
4/10	THIRD EXAM		
4/15	Coordination Compounds and <i>d</i> -Block Introduction	8, 18	
4/17	Catch-up and Review		
4/24	COMPREHENSIVE FINAL EXAM, 4:30-5:50 p.m. 121 Old Main		

PREREQUISITE: CHM 1240 or equivalent.

REQUIRED TEXT: Shriver & Atkins "Inorganic Chemistry" 4th Edition, available in the bookstore.

SUPPLEMENTARY TEXTS: "Inorganic Chemistry" 3rd Ed. by Miessler & Tarr; "Essential Trends in Inorganic Chemistry" by Mingos; "Basic Inorganic Chemistry" 3rd Ed. by Cotton, Wilkinson & Gaus. All are on reserve at the Science and Engineering Library.

COMMUNICATION: E-mail correspondence sent to Professor Allen or TA Godakumbura must contain "CHM 3020" in the subject line.

COURSE WEBPAGE: There is a webpage for this course on blackboard: <http://blackboard.wayne.edu/>. Announcements, grades, copies of homework and exercises, answer keys, and supplemental information will be provided. New users to blackboard can visit the computing and information page at <http://computing.wayne.edu/blackboard/aboutblackboard.php> for more information about access and use of blackboard.

OFFICE HOURS: Monday 8:30-9:30 AM, Wednesday 4:30-5:30 PM, *or by appointment*.

COURSE TA: Pahan Godakumbura, 201 Science and Engineering Library. Office hours: Thursday 2:00-3:00 PM *or by appointment*. Contact Ms. Godakumbura at pahan@chem.wayne.edu.

GRADING: The hour exams (3) are each worth 100 points. The Final exam is worth 200 points. There will be 5 homework assignments at 20 points each for a total of 100 points. The equivalent of a one hour exam (the lowest 100 points) will be dropped, and the final grade will be determined on the remaining 500 points. **As a result, no make-up exams will be given.** I will give an approximate grade breakdown for each exam, so that you have an idea where you stand at any time. However, *these grades are only approximate*.

Final grades will not be assigned tougher than the following scale:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
≥93%	≥90%	≥87%	≥83%	≥80%	≥77%	≥73%	≥70%	≥67%	≥60%	≥55%	<55%

Request for regrades will result in the *entire* assignment or exam being regraded, which could result in an increase, decrease, or no change in the overall score.

ATTENDANCE: I encourage all students to attend every class. I often stress points in class that show up on exams. Students are responsible for obtaining notes from missed lectures from classmates, they will not be provided by the course instructor, nor will the instructor take significant time to explain material during office hours that the student has not received due to a missed lecture. As emphasized above, no make-up exams will be given, so attendance at exams is mandatory. Additionally, two of the five homework sets will be done in groups IN CLASS on 1/24 and 2/19; attendance at these two classes is mandatory.

COURSE DROPPING: April 17 is the last day that requests for drops will be accepted. Please see: <http://sdcl.wayne.edu/RegistrarWeb/Registrar/policies.htm> for instructions on requesting drops.