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### CHMY 403.01: Descriptive Inorganic Chemistry

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**CHMY 403**  
**SPRING 2013 COURSE SCHEDULE**

**MWF 2:10-3:00 p.m., Chem. 102**

**Prof. Edward Rosenberg**

**Text:** Shriver and Atkins *Inorganic Chemistry Fifth Edition, Freeman*

	<u>Week</u>	<u>Chapter</u>	<u>Topic/Exercises/Problems</u>
1.	1/28-2/1	9	Periodic Trends, Exercises 1-7
2.	2/4-2/8	10-18 Part A Notes	The main group elements Exercises 10.3,10.4, 11.6-11.8, 12.1, 12.2, 13.2, 13.3, 14.1, 14.2, 14.9, 15.4 15.5, 16.2, Quiz 1 2/8
3.	2/11-2/15	5	Oxidation and reduction Quiz 2 2/15
4.	2/18-2/22	5	Exer. 2,4,6,7,8,9,10,13,15, Quiz 3 2/22
5.	2/25-2/3/1		Review, No Class 2/18 Midterm 3/1
6.	3/4-3/8	21	Reactions of Complexes
7.	3/11-3/15	21	Exer.1, 5, 6, 7, 8, 9, 11, 12, 13, 14-20, Quiz 4 3/15
8.	3/18-3/22	22	Organometallic Chemistry Quiz 5 3/22
9.	3/25-3/29	22	Exer. 1-4, 6, 10, 11, 14-21 Quiz 6 3/29
10.	4/1-4/5		No class spring break
11.	4/8-4/12		Quiz 7, 4/8 Review Midterm 2 4/12
12.	4/15--4/19	26	Catalysis
13.	4/22-4/26	26	Exer.2, 5, 6, 7, 10, 14. Quiz 8 4/26
14.	4/29-5/3	27	Biological inorganic, Quiz 9, 5/3
15.	5/6-5/10	27	Exer. 2, Quiz 10 5/8 Midterm 3, 5/10

**Final Exam: Wednesday, May15, 3:20 – 5:20**

Course Evaluation – 3 Midterm Exams (100pts each) + Final Exam (200pts) + 10 -10 point quizzes all on Fridays except Quiz 10 (drop or miss two, average of 8 scaled to 10) 100 pts = 600 total points

Office Hours: MWF 11 AM -12 PM (Please come by anytime if these times don't work)

**Learning Outcomes**

1. The first part of the course revisits concepts initially presented in CHMY 141-143 on atomic properties, in more depth, and with an update on changes and trends in the periodic table of the elements.
2. The second two weeks are devoted to oxidation and reduction and the students will learn the importance of this reaction type to environmental issues in the world today.
3. The remainder of the course presents material that that will be mostly new to the students. and will expect the students to connect the role of metals in industry, medicine and in biology.
4. The assessment approach will use weekly quizzes to keep the students aligned with the lecture material and the same points will be emphasized on the midterms and comprehensively on the final exam.