

Course Title/Number	Principles of Chemistry II / CHM 212, Section 203
Semester/Year	Spring 2015
Days/Time	1:00-1:50 PM MWF
Location	473 Science Hall
Instructor	Dr. Bin Wang
Office	241L Byrd Biotechnology Science Center
Phone	(304) 696-3456
Email	wangb@marshall.edu
Office Hours	1:30-4:30 PM Tuesday & Thursday, or by appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to http://www.marshall.edu/academic-affairs/policies/ Academic Dishonesty / Excused Absences / University Computing Services' Acceptable Use / Inclement Weather / Dead Week / Students with Disabilities / Academic Dismissal / Academic Forgiveness / Academic Probation and Suspension / Affirmative Action / Sexual Harassment

Course Description:

A continuation of CHM 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3.00 credits. Prerequisite: grade of C or better in CHM 211

Required Texts, Additional Reading, and Other Materials

1. ***Chemistry: The Science in Context, Third Edition*** by Thomas R. Gilbert, Rein V. Kirss, Natalie Foster, and Geoffrey Davies; W. W. Norton & Company, Inc.
2. SmartWork access for the textbook
3. access to MU Online and a Marshall email account
4. non-programmable calculator for quizzes, tests, and exams (it must not have keys for the alphabet)
5. #2 pencil for quizzes, tests, and exams

Student Learning Outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
Students will identify and explain trends in physical and chemical properties.	<ul style="list-style-type: none"> • lectures • textbook readings • homework 	<ul style="list-style-type: none"> • tests and quizzes
Students will understand how	<ul style="list-style-type: none"> • lectures 	<ul style="list-style-type: none"> • tests and quizzes

the energy of a system governs the rate and extent of chemical reactions.	<ul style="list-style-type: none"> • textbook readings • homework 	
Students will understand how the relative amounts of chemical species govern the rate and extent of reactions.	<ul style="list-style-type: none"> • lectures • textbook readings • homework 	<ul style="list-style-type: none"> • tests and quizzes
Students will apply mathematical techniques to formulate and solve problems in chemistry.	<ul style="list-style-type: none"> • lectures • textbook readings • homework 	<ul style="list-style-type: none"> • tests and quizzes

Grading Policy

homework	15	points
quizzes (4 during the semester)	5	points
tests (4 during the semester)	60	points
final exam	20	points
	100	TOTAL POINTS
Grading Scale: A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: < 60		

Attendance Policy

Attendance is highly recommended. In general, missed quizzes and tests may not be made up except in the case of an excused absence, according to university policy. In the case that class is cancelled due to inclement weather or an emergency on the day of a scheduled test, the test will be given in the next scheduled class period. If student tardiness becomes a significant distraction during lecture, the instructor reserves the right to refuse admission to tardy students.

Miscellaneous Policies

Please silence cell phone ringers during class or exams. The instructor reserves the right to answer any ringing cell phones during lecture, or to dismiss the offending student. Use of cell phones / PDAs / MP3 players and similar devices during tests, quizzes, and exams will be considered academic dishonesty. Recording of lectures without the instructor's permission is prohibited. Laptops should not be used during class without permission. The content of this course will adhere closely to the information contained in the textbook. You may use other resources (alternate texts, notes from other professors, etc.). If you find information that contradicts something written in the textbook or said in the lecture, please consult Dr. Wang. Class announcements may occasionally be made via email to your university email address. Please check it on a regular basis. Lecture slides will be posted at MU Online.

Tentative Course Schedule:

	Monday	Wednesday	Friday
Week 1 1/12 - 1/16	Syllabus, SmartWork, Chapter 10	Chapter 10	Chapter 10
Week 2 1/19 - 1/23	<i>Martin Luther King, Jr. Holiday</i>	Chapter 11	Chapter 11
Week 3 1/26 - 1/30	Chapter 11	Chapter 11	Chapter 14
Week 4 2/2 - 2/6	Chapter 14	Chapter 14	Chapter 14, Quiz 1
Week 5 2/9 - 2/13	Review Chapters 10, 11, 14	TEST 1 (Chapters 10, 11, 14)	Chapter 15
Week 6 2/16 - 2/20	Chapter 15	Chapter 15	Chapter 15
Week 7 2/23 - 2/27	Chapter 16	Chapter 16	Chapter 16
Week 8 3/2 - 3/6	Chapter 16, Quiz 2	Review Chapters 15, 16	TEST 2 (Chapters 15, 16)
Week 9 3/9 - 3/13	Chapter 17	Chapter 17	Chapter 17
Week 10 3/16 - 3/20	<i>Spring Break</i>		
Week 11 3/23 - 3/27	Chapter 17	Chapter 18	Chapter 18
<i>3/27 is last day to withdraw from full-semester courses</i>			
Week 12 3/30 - 4/3	Chapter 18	Chapter 18, Quiz 3	Review Chapters 17, 18
Week 13 4/6 - 4/10	TEST 3 (Chapters 17, 18)	Chapter 19	Chapter 19
Week 14 4/13 - 4/17	Chapter 19	Chapter 19	Chapter 21
Week 15 4/20 - 4/24	Chapter 21	Chapter 21	Chapter 21, Quiz 4
Week 16 4/27 - 5/1	Review Chapters 19, 21	TEST 4 (Chapters 19, 21)	Review
5/2 SATURDAY 10:00 AM FINAL EXAM (location TBA)			