

Course Title/Number	Principles of Chemistry II / CHM 212, Section 205
Semester/Year	Spring 2018
Days/Time	Tuesday & Thursday 16:00-17:15 PM
Location	465 Science Hall
Instructor	Dr. Bin Wang
Office	241L Byrd Biotechnology Science Center
Phone	(304) 696-3456
Email	wangb@marshall.edu
Office Hours	Wednesday 1:30-4:30 PM 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 / Academic Dismissal / Academic Forgiveness / Academic Probation and Suspension / Affirmative Action / Dead Week / D/F Repeat Rule / Excused Absences / Inclement Weather / Sexual Harassment / Students with Disabilities / University Computing Services' Acceptable Use

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. *Principles of General Chemistry, Third Edition* by Martin S. Silberberg; McGraw-Hill, 2013
2. ALEKS access
3. Access to MUOnLine and a Marshall email account
4. Non-programmable calculator
5. #2 pencil for quizzes, tests, and exam

Course Outcomes:

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 • ALEKS exercises 	<ul style="list-style-type: none"> • tests and quizzes • ALEKS exercises
Students will understand how the energy of a system governs	<ul style="list-style-type: none"> • lectures • textbook readings 	<ul style="list-style-type: none"> • tests and quizzes • ALEKS exercises

the rate and extent of chemical reactions.	• ALEKS exercises	
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 • ALEKS exercises 	<ul style="list-style-type: none"> • tests and quizzes • ALEKS exercises
Students will apply mathematical techniques to formulate and solve problems in chemistry.	<ul style="list-style-type: none"> • lectures • textbook readings • ALEKS exercises 	<ul style="list-style-type: none"> • tests and quizzes • ALEKS exercises

Grading Policies:

ALEKS exercises	20	points
quizzes (4 during the semester)	10	points
tests (4 during the semester)	50	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 for this class 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 quiz/test, the quiz/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.
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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 quizzes, tests, and exams will be considered academic dishonesty. Recording of lectures without the instructor's permission is prohibited. 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 MUOnline.
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Tentative Schedule:

	Tuesday	Thursday
Week 1 1/8–1/12	Syllabus, ALEKS, Chapter 12	Chapter 12
Week 2 1/15–1/19	Chapter 12/13	Chapter 13
Week 3 1/22–1/26	Chapter 13/16	Chapter 16
Week 4 1/29–2/2	Chapter 16	Chapter 17 Quiz 1 (Chapters 12, 13, and 16)
Week 5 2/5–2/9	Review Quiz 1 questions Chapter 17	Chapter 17 TEST 1 (Chapters 12, 13, and 16)
Week 6 2/12–2/16	Review Test 1 questions Chapter 17	Chapter 18
Week 7 2/19–2/23	Chapter 18	Chapter 19
Week 8 2/26–3/2	Chapter 19	Chapter 20 Quiz 2 (Chapters 17-19)
Week 9 3/5–3/9	Review Quiz 2 questions Chapter 20	Chapter 20 TEST 2 (Chapters 17-19)
Week 10 3/12–3/16	Review Test 2 questions Chapter 20	Chapter 21
<i>3/16 is the last day to drop an individual course</i>		
Week 11 3/19–3/23	<i>Spring Break</i>	
Week 12 3/26–3/30	Chapter 21	Chapter 22 Quiz 3 (Chapters 20 & 21)
Week 13 4/2–4/6	Review Quiz 3 questions Chapter 22	Chapter 22 TEST 3 (Chapters 20 & 21)
Week 14 4/9–4/13	Review Test 3 questions Chapter 22	Chapter 23
Week 15 4/16–4/20	Chapter 23 Quiz 4 (Chapters 22 & 23)	Review Quiz 4 questions Chapter 23
Week 16 4/23–4/27	TEST 4 (Chapters 22 & 23)	Review Test 4 questions Final review
4/28 SATURDAY 10:00 AM FINAL EXAM (location TBA)		