

Course Title/Number	Principles of Chemistry II/CHM 212, Section 102
Semester/Year	Fall 2018
Days/Time	Monday & Wednesday 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 2:00-3:30 PM (BBSC 241L) and Thursday 2:00-3:30 PM (S 460)
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. Access to the Sapling Learning online homework system
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 • Sapling Learning exercises 	<ul style="list-style-type: none"> • tests and quizzes • Sapling Learning exercises
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 • Sapling Learning exercises 	<ul style="list-style-type: none"> • Sapling Learning 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 • Sapling Learning exercises 	<ul style="list-style-type: none"> • tests and quizzes • Sapling Learning exercises
Students will apply mathematical techniques to formulate and solve problems in chemistry.	<ul style="list-style-type: none"> • lectures • textbook readings • Sapling Learning exercises 	<ul style="list-style-type: none"> • tests and quizzes • Sapling Learning exercises

Grading Policies:

Sapling Learning exercises (online homework)	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.
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Miscellaneous Policies:

Please silence cell phone ringers during class or exams. Use of cell phones/PDAs/MP3 players and similar devices during quizzes, tests, and exam 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:

	Monday	Wednesday
Week 1 8/20–8/24	Syllabus, Sapling Learning, Chapter 12	Chapter 12
Week 2 8/27–8/31	Chapter 12/13	Chapter 13
Week 3 9/3–9/7	<i>Labor Day Holiday</i>	Chapter 13/16
Week 4 9/10–9/14	Chapter 16	Chapter 16/17
Week 5 9/17–9/21	Quiz 1 (Chapters 12, 13, and 16)	Review Quiz 1 questions Chapter 17
Week 6 9/24–9/28	TEST 1 (Chapters 12, 13, and 16)	Review Test 1 questions Chapter 17/18
Week 7 10/1–10/5	Chapter 18	Chapter 18/19
Week 8 10/8–10/12	Chapter 19	Chapter 19/20
Week 9 10/15–10/19	Quiz 2 (Chapters 17-19)	Review Quiz 2 questions Chapter 20
Week 10 10/22–10/26	TEST 2 (Chapters 17-19)	Review Test 2 questions Chapter 20/21
<i>10/26 is the last day to drop a full semester individual course</i>		
Week 11 10/29–11/2	Chapter 21	Chapter 21/22
Week 12 11/5–11/9	Quiz 3 (Chapters 20-21)	Review Quiz 3 questions Chapter 22
Week 13 11/12–11/16	TEST 3 (Chapters 20-21)	Review Test 3 questions Chapter 22/23
Week 14 11/19–11/23	<i>Thanksgiving Break</i>	
Week 15 11/26–11/30	Chapter 23	Quiz 4 (Chapters 22-23)
Week 16 12/3–12/7	Review Quiz 4 questions TEST 4 (Chapters 22-23)	Review Test 4 questions Final review
12/8 SATURDAY 10:00 AM FINAL EXAM (location TBA)		