Chemistry 212 FALL 2018

Welcome to Chemistry 212 for the Fall Semester of 2018. This course is the continuation of Chemistry 211 and will cover many basic principles of chemistry. Topics this semester will include: colligative properties, kinetics, equilibrium, acids and bases, solubility, thermodynamics, oxidation and reduction, nuclear chemistry and an introduction to inorganic and bio- chemistry.

Course Title/Number	Principles of Chemistry II - CHM 212 Sec 101				
Semester /Year	Fall 2018				
Days/Time	MWF, 1300p - 1350p				
Location	S 465				
Instructor	Price, William				
Office	S 490				
Phone	696-3156				
E-Mail	pricew@marshall.edu				
Office Hours	MW 1400 -1600				
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 www.marshall.edu/academic				
	affairs and clicking on "Marshall University Policies." Or, you can access the				
	policies directly by going to www.marshall.edu/academic-affairs/policies/.				
	Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing				
	Services Acceptable Use/Inclement Weather/Dead Week/Students with				
	Disabilities/Academic Forgiveness/Academic Probation and				
	Suspension/Academic Rights and Responsibilities of Students/Affirmative				
	Action/Sexual Harassment				

Course Description: From Catalog

Principles of Chemistry II. 3 hrs. I, II, S. A continuation of Chemistry 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3 lec. (PR: *C* or better in CHM 211; CR: CHM 218)

The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.

Course student learning outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed	
Students will To become familiar	Lecture, guizzes, practice	Exams, guizzes and SAPLING	
with the vocabulary of modern chemistry	assignments, SAPLING		
Students will gain insight into the ever-expanding role of chemistry within the context of society, medicine, materials and environment.	Lecture, quizzes, practice assignments, SAPLING	Exams, quizzes and SAPLING	

Students will learn and reinforce	Lecture, quizzes, practice	Exams, quizzes and SAPLING	
logical strategies for solving	assignments, SAPLING		
quantitative problems.			

Required Texts, Additional Reading, and Other Materials

- 1. *OpenStax Chemistry*, https://openstax.org/details/books/chemistry (This is a free resource)
- 2. Sapling Learning Online Homework
- 3. non-text calculator for quizzes, tests, and exams (it must not have keys for the alphabet)
- 1. #2 pencil and black or blue ink pen for tests/quizzes

Electronic Device Policy

All cell phones and pagers must be either turned off or onto vibrate mode during class. Laptops must be turned off and placed on the floor during the lecture period. During examinations, all electronic devices except calculators must be inaccessible. Students **MUST BRING A CALCULATOR** to class for all lectures and exams. Calculators that are part of a cell phone or smart phones are **not** acceptable for use during an exam or quiz.

Grading Policy

There will be approximately 11 quizzes, SAPLING assignments, five midterm exams and one cumulative final exam. Quizzes will count for 100 points total (one quiz will be dropped), midterm exams will constitute a total of 500 points, while the final exam will be worth 100 points. **BONUS:** completion of *SAPLING* homework can result in an extra 15 points. Exam and quiz material will be drawn from the homework, the lecture, and the text. See schedule of tentative exam dates. Missed exams or quizzes may be made up, with a valid University excuse, on **Thursday Dec 13**th. If you are planning on making up work on this make-up day you **must** let me know via email by 4 pm Wednesday, December 5, 2018. Cutoffs for grades will be no higher than those listed below, but may be lowered if appropriate. **A** \geq 90.00; 90.00 < **B** \geq 80.00; 80.00 < **C** \geq 70.00; 70.00 < **D** \geq 60.00; 60.00 < **F**

Attendance Policy

I strongly encourage you to come to class so that you can more fully understand the material that you will read in the book. If you are absent, obtain the notes from another student or online. In situations where the student is aware of the absence for an exam or quiz in advance, arrangement for accommodations must be made prior to the absence. Otherwise, the designation of an absence as excused and any accommodation for that absence will be decided by the Dean of Students. If a student decides to not complete the course, he or she must visit the registrar and complete the appropriate paperwork to remove the course from his or her schedule. The last day to withdraw from a single class is **Friday, October 26, 2018**.

Tentative Course Schedule*

Week	Reading	Notes	Week	Reading	Notes
1:	Chapter 10	Liquids & Solds	9:	Chapter 15	Ionic Equilibria
8/20-8/24	Chapter 11	Solutions & Colloids	10/15 -10/19		
2:	Chapter 11	Solutions & Colloids	10:	Chapters	Midterm III
8/27-8/29			10/22	14 & 15	
2:	Chapters	Midterm I	10:	Chapter 16	Thermodynamics
8/31	10 & 11		10/24 – 10/26		
3:	Chapter 12	Kinetics	11:	Chapter 16	Thermodynamics
9/5-9/7			10/29-11/2	Chapter 17	Electrochemistry
4:	Chapter 12	Kinetics Equilibrium I	12:	Chapter 17	Electrochemistry
9/10-9/14	Chapter 13		11/5 – 11/9		
5:	Chapter 13	Equilibrium I	13:		Midterm IV
9/17 – 9/21			11/12		
6:	Chapter 13	Equilibrium I	13:	Chapter 19	Coordination Chem
9/24 – 9/26			11/14 - 11/16		
6:	Chapters 12	Midterm II	14:	Chapter 19	Coordination Chem
9/28	& 13		11/26–11/30	Chapter 21	Nuclear Chemistry
7:	Chapter 14	Acid/Base Equilibrium	15:	Chapters 19	Midterm V
10/1 - 10/5			12/3	& 20	
8:	Chapter 14	Acid/Base Equilibrium	15:	Review	
10/8-10/12			12/5 – 12/7		

To make the most of each class period, reading and assignments should be completed before lecture.

* Reading assignments and exam dates are approximate and may be subject to change

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