Course Title/Number	**Principles of Chemistry II / CHM 212, Section 201**
Semester/Year	Spring 2017
Days/Time	MWF 11:00-11:50
Location	473 Science Hall
Instructor	Dr. Leslie Frost
Office	464 Science Hall
Phone	304-696-6774
E-Mail	frost@marshall.edu Best way to contact me is by email.
Office/Hours	Mondays and Wednesdays 10:00-11:00 and Tuesdays 9:00-11:00 Drop-in visits are welcome.
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 http://www.marshall.edu/academic-affairs/?page_id=802 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:

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

Course Outcomes:

Course 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.	-lectures -textbook readings -ALEKS exercises -Problem Sets	-test -ALEKS exercises
Students will understand how the energy of a system governs the rate and extent of chemical reactions.	-lectures -textbook readings -ALEKS exercises -Problem Sets	-test -ALEKS exercises
Students will understand how the relative amounts of chemical species govern the rate and extent of chemical reactions.	-lectures -textbook readings -ALEKS exercises -Problem Sets	-test -ALEKS exercises
Students will apply mathematical techniques to formulate and solve problems in chemistry.	-lectures -textbook readings -ALEKS exercises Problem Sets	-test -ALEKS exercises

Required Texts, Additional Reading, and Other Materials:

1. Free Chemistry Textbook- Can be downloaded as a pdf file, viewed on the Web, or downloaded as an interactive ebook for apple products.

   https://openstaxcollege.org/textbooks/chemistry/get
2. ALEKS access
3. Access to MU Online and a Marshall email account
4. Non-programmable calculator

Optional Text:

1. *Principles of General Chemistry, Third Edition* by Martin S. Silberberg, McGraw-Hill, 2013.

Course Policies

Grading Policy

The grade for this class will be determined from Aleks exercises, four in-class exams and a cumulative, final exam. The material for the exams will come from lectures, ALEKS problems, and the reading assignments. In-class exams may cover material from previous exams.

ALEKS exercises	100 points
In-class exams	400 points
Final exam	100 points
	600 total

Grading Scale: A 90-100%   B 80-89%   C 70-79%   D 60-69%   F < 60%

* If you are caught cheating on any exam, you will automatically receive a grade of 0% for that exam.

Attendance Policy

Attendance for this class is not mandatory. By that, no portion of your grade will be determined by attendance. Absences from exams can only be made-up if the absence falls within one of the categories outlined in the undergraduate catalog for excused absences. To make-up an exam, you will need to follow the process for securing an excused absence. Excused absences must be obtained as soon as possible.

Other Policies

1. Cell phones cannot be used, or out, during exams.
2. Sharing calculators during exams is prohibited.
3. During exams, all materials necessary will be provided to you except a pencil and calculator. You may NOT use your own paper, etc.
4. Please turn off cell phones during class, failure to do so may result in dismissal from lecture.
5. Class announcements will be made via blackboard and email to your university email address. It is your responsibility to check blackboard on a regular basis.

Course Schedule

Week Of:	Chapter	Notes
January 9	Syllabus, 12	Introduction
January 16	13	No class on Jan. 16th
January 23	13 and 16	**Jan. 27- Exam 1** (Chap. 12 &13)
January 30	16	
February 6	16 and 23	
February 13	23	**Feb. 17- Exam 2** (chap. 16 & 23)
February 20	17	
February 27	17 and 18	
March 6	18	
March 13	19	**March 17- Exam 3** (chap. 17-19)
March 20		**Spring Break-** no class
March 27	20	
April 3	20 and 21	
April 10	21	
April 17	22	**April 20- Exam 4** (chap. 20 and 21)
April 24	22	
April 29		**Final Exam 10 AM**

* Exam dates are approximate (except for the final exam). You will be given 1 week prior notice before all exams.
* March 17th is the last day to drop this course.

ALEKS:
　　You will be required to complete the online ALEKS component for this course. Additional information for ALEKS will be posted on MUOnline. There will just be one component to the ALEKS score which will determine your overall points out of a possible 100 points.
   1) Objective completion- points are earned by completing objectives by the due date. Your lowest individual objective score will be dropped before calculating the Objective score.

Additional Homework:
　　Each student is to prepare for each class by reading the material covered in the previous class, answering the relevant problems at the end of the chapter, and previewing the material in order to anticipate the next class lecture. Problem sets for each chapter are available at MUOnline. These are very important, because the problems on these handouts will be the same type of problems that will appear on the exam. The answers to the problem sets are located at the end of the questions, and I will also be posting a copy of worked out answer keys on the bulletin board by my office. Copies of my old tests and answers can also be found online. You are to practice the problems from each chapter in the book. Sample Problems and follow-up problems located within each chapter are excellent sources of additional problems because detailed explanations on working out each problem are provided in the textbook. You can also chose problems highlighted in blue at the end of each chapter, as the answers for these are in the back of the book.