

Course Title/Number	Principles of Chemistry I / CHM 211, Section 107
Semester/Year	Fall 2017
Days/Time	Tuesday & Thursday 16:00-17:15 PM
Location	473 Science Hall
Instructor	Dr. Bin Wang
Office	241L Byrd Biotechnology Science Center
Phone	(304) 696-3456
Email	wangb@marshall.edu
Office Hours	Tuesday 1:00-4:00 PM (BBSC 241L), Thursday 1:30-3:30 PM (L.A. Session room, S 460), 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 study of the properties of materials and their interactions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and pre-professional students. 3 credit hours. Prerequisites: grade of 23 or better in Math ACT, grade of C or better in CHM 111, or passed placement exam.

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 ALEKS online homework system
3. Access to MUOnline and a Marshall email account
4. Non-programmable calculator
5. #2 pencil for quizzes, tests, and exams

Student Learning Objectives	Objective will be taught through...	Objective will be assessed by...
Become familiar with the atomic structure of matter.	<ul style="list-style-type: none"> • lectures • textbook readings • ALEKS exercises • learning assistance sessions 	<ul style="list-style-type: none"> • tests and quizzes • ALEKS exercises • questions in learning assistance sessions

Develop analytical skills to solve problems presented in a chemical context.	<ul style="list-style-type: none"> • lectures • textbook readings • ALEKS exercises • learning assistance sessions 	<ul style="list-style-type: none"> • tests and quizzes • ALEKS exercises • questions in learning assistance sessions
Understand how energy is utilized in natural systems.	<ul style="list-style-type: none"> • lectures • textbook readings • ALEKS exercises • learning assistance sessions 	<ul style="list-style-type: none"> • tests and quizzes • ALEKS exercises • questions in learning assistance sessions
Describe and predict the basic chemical bonding patterns that explain the physical and chemical properties of matter.	<ul style="list-style-type: none"> • lectures • textbook readings • ALEKS exercises • learning assistance sessions 	<ul style="list-style-type: none"> • tests and quizzes • ALEKS exercises • questions in learning assistance sessions

Grading Policies:

ALEKS exercises (online homework)	20	points
learning assistance sessions	4	points
quizzes (4 during the semester)	8	points
tests (4 during the semester)	48	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.

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 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.

Tentative Schedule:

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