Course Title/Number	**Principles of Chemistry I/CHM 211, Section 107**
Semester/Year	Fall 2018
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
E-Mail	wangb@marshall.edu
Office Hours	Wednesday 2:00-3:30 PM (BBSC 241L) and Thursday 2:00-3:30 PM (L.A. Session room, 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 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. **OpenStax Chemistry**, https://openstax.org/details/books/chemistry (This is a free resource)
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

Student Learning Objectives	**Objective will be taught through…**	**Objective will be assessed by…**
Become familiar with the atomic structure of matter.	• lectures • textbook readings • Sapling Learning exercises • learning assistance sessions	• tests and quizzes • Sapling Learning exercises • questions in learning assistance sessions

Develop analytical skills to solve problems presented in a chemical context.	• lectures • textbook readings • Sapling Learning exercises • learning assistance sessions	• tests and quizzes • Sapling Learning exercises • questions in learning assistance sessions
Understand how energy is utilized in natural systems.	• lectures • textbook readings • Sapling Learning exercises • learning assistance sessions	• tests and quizzes • Sapling Learning exercises • questions in learning assistance sessions
Describe and predict the basic chemical bonding patterns that explain the physical and chemical properties of matter.	• lectures • textbook readings • Sapling Learning exercises • learning assistance sessions	• tests and quizzes • Sapling Learning exercises • questions in learning assistance sessions

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**
learning assistance sessions	extra	2	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 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.

Tentative Schedule:

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