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| Course Title/Number  | **Principles of Chemistry II / CHM 212, Section 202** |
| Semester/Year | Spring 2015 |
| Days/Time | 12:00-12:50 PM MWF |
| Location | 473 Science Hall |
| Instructor | Dr. Bin Wang  |
| Office | 241L Byrd Biotechnology Science Center |
| Phone | (304) 696-3456 |
| Email | wangb@marshall.edu |
| Office Hours | 1:30-4:30 PM Tuesday & Thursday, 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:**

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| 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**

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| 1. ***Chemistry: The Science in Context****, Third Edition* by Thomas R. Gilbert, Rein V. Kirss, Natalie Foster, and Geoffrey Davies; W. W. Norton & Company, Inc.
2. SmartWork access for the textbook
3. access to MU Online and a Marshall email account
4. non-programmable calculator for quizzes, tests, and exams (it must not have keys for the alphabet)
5. #2 pencil for quizzes, tests, and exams
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| **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
* homework
 | * tests and quizzes
 |
| Students will understand how the energy of a system governs the rate and extent of chemical reactions. | * lectures
* textbook readings
* homework
 | * tests and quizzes
 |
| Students will understand how the relative amounts of chemical species govern the rate and extent of reactions. | * lectures
* textbook readings
* homework
 | * tests and quizzes
 |
| Students will apply mathematical techniques to formulate and solve problems in chemistry. | * lectures
* textbook readings
* homework
 | * tests and quizzes
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**Grading Policy**

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| homework 15 pointsquizzes (4 during the semester) 5 pointstests (4 during the semester) 60 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**

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| Attendance 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 test, the test will be given in the next scheduled class period. If student tardiness becomes a significant distraction during lecture, the instructor reserves the right to refuse admission to tardy students. |

**Miscellaneous Policies**

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| Please silence cell phone ringers during class or exams. The instructor reserves the right to answer any ringing cell phones during lecture, or to dismiss the offending student. Use of cell phones / PDAs / MP3 players and similar devices during tests, quizzes, and exams will be considered academic dishonesty. Recording of lectures without the instructor’s permission is prohibited. Laptops should not be used during class without permission. 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 MU Online.  |

**Tentative Schedule:**

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|  | Monday | Wednesday | Friday |
| Week 11/12 - 1/16 | Syllabus, SmartWork, Chapter 10  | Chapter 10 | Chapter 10/11 |
| Week 21/19 - 1/23 | *Martin Luther King, Jr. Holiday*  | Chapter 11 | Chapter 11 |
| Week 31/26 - 1/30 | Chapter 11 | Chapter 11/14 | Chapter 14 |
| Week 42/2 - 2/6 | Chapter 14 | Chapter 14 | Quiz 1 (Chapters 10, 11, 14) |
| Week 52/9 - 2/13 | Review Chapters 10, 11, 14 | TEST 1 (Chapters 10, 11, 14) | Chapter 15 |
| Week 62/16 - 2/20 | class cancelled | Chapter 15 | class cancelled |
| Week 72/23 - 2/27 | Chapter 15 | Chapter 15/16 | Chapter 16 |
| Week 83/2 - 3/6 | Chapter 16 | Quiz 2 (Chapters 15, 16) | class cancelled |
| Week 93/9 - 3/13 | Review Chapters 15, 16  | TEST 2 (Chapters 15, 16) | Chapter 17 |
| Week 103/16 - 3/20 | *Spring Break* |
| Week 113/23 - 3/27 | Chapter 17 | Chapter 17 | Chapter 17 |
| *3/27 is last day to withdraw from full-semester courses* |
| Week 123/30 - 4/3 | Chapter 17/18 | Chapter 18 | Chapter 18 |
| Week 134/6 - 4/10 | Chapter 18 | Quiz 3 (Chapters 17, 18) | Review Chapters 17, 18 |
| Week 144/13 - 4/17 | TEST 3 (Chapters 17, 18) | Chapter 19 | Chapter 19 |
| Week 154/20 - 4/24 | Chapter 19 | Chapter 19 | Quiz 4 (Chapter 19) |
| Week 164/27 - 5/1 | Review Chapter 19 | TEST 4 (Chapter 19) | Review |
| **5/2 SATURDAY 10:00 AM FINAL EXAM (location TBA)** |