SYLLABUS
CHEM 201 - Inorganic Chemistry I
2:00 pm - 3:15 pm Monday and Wednesday
Currens Hall 203
Fall, 2015

Instructor:  Dr. J. Scott McConnell, Professor, Department of Chemistry

Office and Office Hours:  The instructor’s office is 519A. Office hours are 1:00 - 4:00 Tuesday; and 1:00 - 4:00 Thursday. Call the Chemistry Department (309-298-1538) or e-mail JS-McConnell@WIU.edu, and make an appointment prior to meeting.

Laboratory Director:  Dr. J. Scott McConnell, Professor, Department of Chemistry

Expense Materials Required:  Costs for these materials are the responsibility of the student.


Material Safety Data Sheets (MSDS) information about all chemicals utilized in the laboratory can be found at the following web site.
http://avogadro.chem.iastate.edu/MSDS/. E-copies are free of charge.

Approved personal eye protection is required for the laboratory component of CHEM 201. The student must purchase safety goggles.

A simple scientific calculator without extensive memory functions (i.e. Texas Instruments model 30, equivalent, or less sophisticated models).

Students enrolled in this course are levied a non-refundable laboratory usage fee of $35 to cover the cost of consumable supplies utilized during the semester.

The Primary Goals of CHEM 201 are:
1. Education of students about the basic fields of chemistry.
2. Develop study skills that students need to succeed in university-level science courses.
3. Preparation of students for professional positions in chemistry.
4. Develop critical thinking skills enabling students to solve chemistry problems that incorporate their cumulative knowledge.
5. Preparation of students for classes that require CHEM 201 as a prerequisite.
Prerequisites for CHEM 201: CHEM 201 students must have completed MATH 100 and either one year of high school chemistry or CHEM 100 prior to enrolling in CHEM 201.

Co-requisites for CHEM 201: CHEM 201 students must be taking or have completed MATH 101, 102, 106, 123 or 128; or a math course that requires one of the previous as a prerequisite.

Testing and Grading: All exams and quizzes will be objective.

There will be approximately eight (8) short quizzes periodically during the semester. Only five (5) quizzes will be used to determine your grade. Your total number of points possible from the five quizzes will be 150 points.

There will be approximately eight (8) homework assignments periodically during the semester. Only five (5) of the homework assignments will be used to determine your grade. Your total number of points possible from the five homework assignments will be 100 points.

Twelve laboratory exercises and a lab final are planned for this semester. Only your ten best laboratory exercises will be counted toward your final grade. The labs will be worth 20 points per lab, and the lab final will be worth 50 points. Your total number of points possible from labs will be 250 points. You must score a minimum of 130 points in the laboratory exercises to pass CHEM 201.

Four semester examinations will cover the lecture materials presented during the regular semester. The exams will be worth approximately 125 points each. Only your three best semester examinations will be counted toward your final grade. Your total number of points possible from regular semester examinations will be 375 points.

To accommodate all absences (excused and unexcused) a comprehensive make-up examination will be given on the last day of class. You may use this to make up the second, and only the second, missed examination. The make-up exam will be comprehensive over all materials covered in CHEM 201. Students who miss more than one exam should seriously consider dropping CHEM 201.

The American Chemical Society (ACS) First Term General Chemistry Examination will be the Final Examination for CHEM 201. The Final Exam will be worth approximately 125 points and cover all materials of CHEM 201.

No make-up quizzes, homework, or laboratory exercises will be given. If it is necessary to be absent during a quiz or laboratory exercise, your score will be zero and your low grade. Missing more than one exam; having fewer than the required number of quizzes or homework assignments; or missing three laboratory exercises will ensure a zero will be incorporated into your final grade. **DO NOT MISS MORE THAN THE ALLOWED NUMBER.**
Exceptions to the above rules will only be made for University sponsored functions that require your presence during the class period (i.e. WIU band trips, field trips in other WIU classes, WIU athletics, etc.), and military commitment. Notification of the official WIU sponsored function, in the form of a signed memo from the faculty sponsor or coach, must be submitted to the instructor one week prior to the expected absence. Evidence of military commitment should be presented as soon as possible.

There are approximately 1,000 points possible during the Spring Semester. Your letter grade will be based on your total accumulated points NOT on percentages. Please note: the following grading scale is rigorously followed. Grades are based on point totals at the end of the semester. No Unearned credit of any sort will be given to any student.

**Forewarning Regarding the CHEM 202 Final:** The American Chemical Society (ACS) Examination in General Chemistry will be the Final Examination for CHEM 202. The Final Exam will be worth approximately 100 points and cover all materials for both CHEM 201 and 202. The ACS offers a study guide for the comprehensive test at: http://www4.uwm.edu/chemexams.guides/details_guides.cfm?ID=162

**Course Grading Scale:**

<table>
<thead>
<tr>
<th>Total Points</th>
<th>Percentage (%)</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>≥ 920</td>
<td>92 - 100</td>
<td>A</td>
</tr>
<tr>
<td>880 - 919</td>
<td>88 - 92</td>
<td>A-</td>
</tr>
<tr>
<td>840 - 879</td>
<td>84 - 88</td>
<td>B+</td>
</tr>
<tr>
<td>800 - 839</td>
<td>80 - 84</td>
<td>B</td>
</tr>
<tr>
<td>760 - 799</td>
<td>76 - 80</td>
<td>B-</td>
</tr>
<tr>
<td>720 - 759</td>
<td>72 - 76</td>
<td>C+</td>
</tr>
<tr>
<td>680 - 719</td>
<td>68 - 72</td>
<td>C</td>
</tr>
<tr>
<td>640 - 679</td>
<td>64 - 68</td>
<td>C-</td>
</tr>
<tr>
<td>600 - 639</td>
<td>60 - 64</td>
<td>D+</td>
</tr>
<tr>
<td>560 - 599</td>
<td>56 - 60</td>
<td>D</td>
</tr>
<tr>
<td>520 - 559</td>
<td>52 - 56</td>
<td>D-</td>
</tr>
<tr>
<td>≤ 519</td>
<td>0 - 52</td>
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Please be aware that most Department of Chemistry courses require the grade of a “C” or better to progress to the next course. A grade of “C-” is **NOT** satisfactory.

An “incomplete” grade will **NOT** be given to a student with a failing grade. No incomplete will be given to a student without documented evidence of an emergency that requires that the student be away from the university or requires that the student
miss the final examination. Students shall notify the instructor of the emergency as soon as possible and prior to the final examination.

**Attendance Policy:** You are expected to attend class regularly and punctually. You are responsible for all information and materials in sessions and classes whether you are present or not. Any student who receives six or more absences may be dropped from this course without notice.

Any student arriving more than ten minutes late for any exam, laboratory exercise, or the final examination may not be allowed to take or complete the assigned work at the instructor’s discretion. Any student attempting to turn in a homework assignment more than ten minutes late may not be allowed to turn in the assigned work at the instructor’s discretion. Leaving the classroom prior to completion of a quiz or an exam is prohibited. When a student leaves the classroom, the exam or quiz is complete. If the student leaves the classroom with an exam or quiz without submitting the exam or quiz for grading, the value of the exam or quiz is zero. Additionally, the student may be prosecuted for academic dishonesty.

**Classroom and Course Policies:** Any student convicted of academic dishonesty will receive a failing grade and may be subjected to further academic penalty, including expulsion. See the WIU academic dishonesty policy (http://www.wiu.edu/policies/acintegrity.shtml). **CHEATING WILL NOT BE TOLERATED.**

Data storage or data transfer devices (including but not limited to: notes, cell phones, graphing calculators, iPods, and similar devices) are **NOT** to be used in CHEM 201. Cell phones should be turned off and put away during all class meetings. The use of any data storage or data transfer devices during any quiz, laboratory exercise, test or the final examination shall constitute **CHEATING**.

Simple scientific calculators without extensive memory functions (i.e. Texas Instruments model 30 and less sophisticated) may be used.

No head covering of any sort (including but not limited to: hats, caps, hoods, and scarves) may be used during the taking of a quiz, exam, or the final examination without specific permission of the instructor.

Assigned seating, rearrangement of seats, and closing of selected seats and areas of the classroom are the option of the instructor.

**Work Requirements for CHEM 201 Outside the Classroom:** Students are expected to read, review, study and learn all material discussed in class and lab; read assigned chapters in the textbook; work all homework assignments; and work the questions and problems at the end of each chapter of the text book. A minimum of two to three hours of study time outside of class is generally required for each one hour of class time in CHEM 201.
Review Sessions and the Chemistry Resource Center (CRC): Review sessions for CHEM 202 will be scheduled and held one or two nights a week in the afternoons or evenings. Days, times, and locations will be posted on Western Online.

The Chemistry Resource Center (Currens Hall 107) is usually open 8:00 am - 5:00 pm Monday - Thursday, and 8:00 am - 12:00 pm Friday.

Emergency Preparedness: WIU Office of Risk Management and Emergency Preparedness provides resources on how to respond to emergency situations. Please view the video resources at http://www.wiu.edu/rmep/ (Click “Resources” on the right side of the page).

Students with Disabilities: In accordance with University values and disability law, students with disabilities may request academic accommodations where there are aspects of a course that result in barriers to inclusion or accurate assessment of achievement. To file an official request for disability-related accommodations, please contact the Disability Resource Center at 309-298-2512, disability@wiu.edu or in 143 Memorial Hall. Please notify the instructor as soon as possible to ensure that this course is accessible to you in a timely manner.

The Following Action is Prohibited under the Student Conduct Code: Disorderly Conduct. Disorderly conduct is defined as any behavior which disrupts the regular or normal functions of the University community, including behavior which breaches the peace or violates the rights of others. (http://sjp.wiu.edu/CodeOfConduct/index.asp)

Student Rights and Responsibilities: Student rights and responsibilities are listed on the WIU website (http://www.wiu.edu/provost/students/).

Tentative Course Content, Chapter Assignments, and Projected Exams (Subject to Change)

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Chemistry and the Atomic/Molecular View of Matter</td>
</tr>
<tr>
<td>2</td>
<td>Scientific Measurements</td>
</tr>
<tr>
<td>3</td>
<td>Elements, Compounds and the Periodic Table</td>
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<tr>
<td></td>
<td><strong>EXAMINATION 1</strong> (Mid-September)</td>
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<tr>
<td>4</td>
<td>The Mole and Stochiometry</td>
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<td>5</td>
<td>Molecular View of Reactions In Aqueous Solutions</td>
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<td></td>
<td><strong>EXAMINATION 2</strong> (Mid-October)</td>
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</table>
6  Oxidation–Reduction Reactions
7  Energy And Chemical Change
   EXAMINATION 3  (Mid-November)
8  The Quantum Mechanical Atom
9  The Basics of Chemical Bonding
   EXAMINATION 4  (Early December)

COMPREHENSIVE MAKE-UP EXAMINATION FOR CHEM 201
   (Early December)

Mid-May, Finals
   ACS COMPREHENSIVE FINAL EXAMINATION FOR CHEM 201
   Final Exam Schedule may be found at
   http://www.wiu.edu/registrar/exams.php

THE FINAL FOR CHEM 202 WILL BE THE AMERICAN CHEMICAL SOCIETY
   (ASC) COMPREHENSIVE EXAMINATION. THE FINAL FOR CHEM 202 WILL
   COVER MATERIALS FROM BOTH CHEM 201 AND CHEM 202.
   ALL LECTURE NOTES, HAND OUTS, TESTS, QUIZZES, HOMEWORKS, AND
   LABORATORY MATERIALS FROM BOTH CHEM 201 AND CHEM 202 WILL BE
   NEEDED FOR THE CHEM 202 FINAL.
   DO NOT DISPOSE OF YOUR CHEM 201 MATERIALS.
   IT IS STRONGLY SUGGESTED THAT STUDENTS COMPLETE THE CHEM
   201/202 (CHEM 911/912) SEQUENCE AT WESTERN ILLINOIS UNIVERSITY
   PRIOR TO TRANSFERRING.

Important Dates:

<table>
<thead>
<tr>
<th>Date (Fall, 2015)</th>
<th>Event</th>
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<tbody>
<tr>
<td>August 24, Mon.</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>September 7, Mon.</td>
<td>Labor Day - No Classes/University Closed</td>
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<tr>
<td>October 16, Fri.</td>
<td>Fall Break - No Classes</td>
</tr>
<tr>
<td>November 23-27, Mon.-Fri.</td>
<td>Thanksgiving Break - No Classes</td>
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<tr>
<td>December 14-18, Mon.-Fri.</td>
<td>Final Exam Week</td>
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</tbody>
</table>
Any situation, condition, or circumstance not covered in the syllabus is subject to the decisions of the instructor, only.