Chemistry 320
Principles of Inorganic Chemistry
Syllabus, Fall 2008

Instructor: Dr. Bangbo Yan  Office: TCCW, Room 423
Phone: 745-3943  e-mail: bangbo.yan@wku.edu
Office hours: MWF 10:10am-11:30am, 1:30-3:30pm, and by appointment

Textbooks:
Required: d-Block Chemistry, by MJ Winter

Lecture:
MWF, 9:10AM-10:05 AM, TCCW 403

Course Coverage:
The course will cover chapters 1-6 in d-Block Chemistry, by MJ Winter. A useful reference for main group elements is Main Group Chemistry, by Henderson. Most general chemistry textbooks have sections on bonding theories (Lewis, VSEPR, Valence Bond, Molecular Orbital), and descriptive chemistry and can be consulted as a reference for those sections. Some supplemental materials may also be utilized and will be provided as necessary.

Supplemental materials for the course are available on BLACKBOARD (http://ecourses.wku.edu)

Objective:
After completing the course, students will have a good understanding of descriptive inorganic chemistry at a non-calculus level. Students will understand selected main group chemistry, bonding theory, and transition metal chemistry and will be introduced to special topics in inorganic chemistry.

Attendance:
Regular attendance in class is very important. You are responsible for all information and materials in sessions and classes whether you are present or not. You must be present and on time for tests or have a valid and documented excuse (e.g. personal illness, school sponsored activity); persons who are going to miss a test must contact the instructor prior to the test to confirm that the absence is acceptable and schedule a prompt make-up test date and time. If you fail to do this, the instructor is under NO obligation to give a make-up test. A student cannot delay a test to a later date simply because of tests or assignments in other classes.

Tests:
A total of three 100-point tests will be given. The three tests will be given during normal class time. Handheld computers, PDA’s, and other devices with programmable functions are not allowed during testing periods. Non-programmable calculators are allowed and will be available for students if needed.
Test 1: Friday, September 26th
Test 2: Monday, October 27th
Test 3: Friday, December 5th

Student Presentation:
Each student will be asked to prepare a ~5-10 page paper and a short (~15 minute) presentation on a topic of the student’s choice related to inorganic chemistry (broadly defined). The topic may be related to a topic presented in class, although a considerable amount of new material that was not presented in class will be expected. The topic should be approved no later than Wednesday, November 5th (earlier is better). The paper will be due on Monday, November 24th. The presentations will be given on either the last week of regular class or during the assigned final exam period (Wednesday, Dec. 9th 8-10 AM).
Student Research Experience:
In order to give students a taste of scientific research, each of you is encouraged to voluntarily participate (6-20 hours) in an ongoing synthetic inorganic research project in the instructor’s lab. Students may coauthor journal papers or conference presentations to report their results. Please contact the instructor if you are interested in this program.

Grading:
Your grade will be calculated as follows:
<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Homework Assignments</td>
<td>100 pts</td>
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<tr>
<td>3 tests @ 100 pts each</td>
<td>300 pts</td>
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<tr>
<td>Paper</td>
<td>60 pts</td>
</tr>
<tr>
<td>Oral presentation</td>
<td>40 pts</td>
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<tr>
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<td>500 pts</td>
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A ≥90-100% (450-500 pts.)
B ≥80-90% (400-450)
C ≥70-80% (350-400)
D ≥60-70% (300-350)
F Under 60% (<300)

Students with disabilities:
Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact Student Disability Services, DUC A-200. The telephone number is (270)-745-5004 (TTY 745-3030). Per university policy, please DO NOT request accommodations directly from the professor without a letter of accommodation from the Office for Student Disability Services.

Important dates:
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Oct. 14</td>
<td>Last day to withdraw with a ‘W’ as a grade or to change a full semester course from credit to audit</td>
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<tr>
<td>Oct. 2-3</td>
<td>Fall Break</td>
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<td>Nov. 24</td>
<td>Term papers due</td>
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<tr>
<td>Dec. 9</td>
<td>Student Presentations (TCCW403)</td>
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