Syllabus

CHM 3610 Inorganic Chemistry

Spring 2017

Daniel R. Talham  CLB 412  Phone: 392-9016  talham@chem.ufl.edu
Office hours:  CLB 412, Monday 3:00-4:00; Tuesday 4:00-5:00; Wednesday 4:00-5:00 and by appointment.

TAs:
Jingwei Zhang, jingweizhang@chem.ufl.edu, Office hours: Tuesday periods 5-7 in the CLC, Keene-Flint Hall
Mary Eaton, maryceaton@ufl.edu, Office hours: Monday period 9, Wednesday period 4; CLB 410

Objective: To introduce general concepts of inorganic chemistry.

Textbook and Readings:


Supplementary Texts: Additional readings will be made available on the UF e-learning site: https://lss.at.ufl.edu/


Topics and associated reading:

Introduction  Chapter 1
Atoms and Periodic Properties  Chapter 2
Simple Bonding Theories  Chapter 3 (omit 3.2.4)
Aqueous Ions  Wulfsberg sections 2.1-2.7; 3.2, 3.5-3.9
Symmetry and Group Theory  Chapter 4, sections 4.1-4.3
Molecular Orbitals  Chapter 5, sections 5.1-5.4.3
Acids and Bases  Chapter 6, sections 6.4-6.4.1; 6.6-6.6.1
Redox Chemistry  Wulfsberg sections 6.1, 6.2, page 264, 6.9
Coordination Chemistry
  Introduction  Chapter 9, sections 9.1-9.3.5
  Bonding  Chapter 10, sections 10.1-10.3; 10.4.4; 10.5-10.6
  Spectroscopy  Wulfsberg sections 8.4-8.5
  Chapter 11, sections 11.1; 11.3.1; 11.3.7-11.3.8
  Reactions  Chapter 12, 12.1-12.3; 12.4.5; 12.8
  Inorganic Solids  Chapter 7, 7.1-7.3
  Bioinorganic Chemistry  Wulfsberg sections 8.10; 17.6-17.9
Grading:

- Progress Test 1. 100 points (20%)  
  Thursday, Feb. 9, in class
- Progress Test 2. 100 points (20%)  
  Thursday, Mar. 16, in class
- Quizzes (4) on Homework. 100 points total (20%)  
  Thursday, Jan 26, in class  
  Thursday, Feb 23, in class  
  Thursday, Mar. 30, in class  
  Thursday, Apr. 13, in class
- Final Exam. 200 points (40%)  
  Thursday, April 27, 10 am

(Note: approximately half of the final exam will be on "new" material since Test 2 and half will be cumulative.)

The following anticipated grade cut-offs will not be raised: From 500 total points, A(420), A- (400), B+ (380), B (360), B- (340), C+ (320), C (300), C- (280), D+ (260), D (240),

**Homework:** Homework will be assigned weekly. Answers will be provided prior to the due date. Homework will not be graded, but quizzes and some questions on tests will closely follow assigned homework questions. Working on homework with a partner or in groups is strongly encouraged.

**Attendance:** Attendance is required for all quizzes and tests. Makeup quizzes and exams will only be considered for documented absences consistent with university policies that can be found in the online catalog at: [https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx). Dr. Talham does not require attendance at lectures, although it is highly recommended.

**Academic Honesty:** UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code.” On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code ([http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/](http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/)) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel.

**Accommodations for students with disabilities:** Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

**UF grading policies for assigning grade points:**  
[https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx)

**UF Course Evaluation Process:** Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at [https://evaluations.ufl.edu](https://evaluations.ufl.edu). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at [https://evaluations.ufl.edu/results/](https://evaluations.ufl.edu/results/).