

**Syllabus****CHM 3610 Inorganic Chemistry****Spring 2017****Daniel R. Talham**

CLB 412

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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](mailto:jingweizhang@chem.ufl.edu), Office hours: Tuesday periods 5-7 in the CLC, Keene-Flint HallMary Eaton, [maryceaton@ufl.edu](mailto:maryceaton@ufl.edu), Office hours: Monday period 9, Wednesday period 4; CLB 410**Objective:** To introduce general concepts of inorganic chemistry.**Textbook and Readings:**

Miessler, Fischer, Tarr "Inorganic Chemistry" Fifth Edition, Pearson, 2014 ISBN-13:987-0-321-1105-9

Supplementary Texts: Additional readings will be made available on the UF e-learning site:

<https://lss.at.ufl.edu/>

G. Wulfsberg "Inorganic Chemistry" University Science Books, 2000

Atkins et al. "Inorganic Chemistry" 5<sup>th</sup> Edition; Freeman, 2010**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>. 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/>) 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/](http://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>

**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>. 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/>.