



## Tentative Schedule

Dates	General topics	Relevant Text Sections
Jan. 22, 24	Course intro, electronic structures, orbital shapes, periodicity, <i>aufbau</i> , <i>IE</i> and <i>EA</i>	1.1-1.10
Jan. 29, 31 Feb. 5	Covalent bonding	2.1-2.9; 5.1-5.7 ProblemSet #1
Feb.7, 12	Molecular symmetry and point group assignments, IR and group theory	3.13-3.16 Problem Set #2
Feb.14, 19, 21	Metallic bonding, unit cells, Ionic bonding, solid structures, lattice energy, band theory, semiconductors, energetics	4.1-4.5; 5.1-5.5 Problem Set #3
Feb. 26, 28	Acid-base systems in aqueous solution	7.1-7.13 Problem Set #4
March 4, 6	Oxidation and Reduction	8.1-8.8
March 11	Non-aqueous media	9.1-9.12
March 1	In-class Exam 1	
March 18, 20	Spring break	-----
March 25, 27	Periodic trends	
April 1	Hydrogen	10.1-10.7
April 3	Selected Group 1 chemistry	11.1-11.9 Problem Set #5
April 8	Selected Group 2 chemistry	12.1-12.10
April 10	Selected Group 13-14 chemistry	13.1-13.11, 14.1-14.13
April 15	Selected Group 15 chemistry	15.1-15.15 Problem Set #6
April 17	Selected Group 16 chemistry	16.1-16.11
April 22	Group 17-18 chemistry	17.1-17.10; 18.1-18.8
April 24, 29 May 1	Intro to transition metal complexes, stereochem, isomerism, CFT	20.1-20.8; 21.1-21.12 Problem Set #7
May 6	Organometallic chemistry and Catalysis	24.1-24.15; 27.1-27.8
May 8	In-class Exam 2	
Finals week	Final Exam (Period 1)	Monday, May 12 7:30 - 9:30 A.M.

### **Administrative Home of the Course**

The College of Liberal Arts and Sciences is the administrative home of this course and governs such academic matters as the add/drop deadlines, the second-grade-only option, issues concerning academic fraud or academic probation, and how credits are applied for various graduation requirements. Different colleges may have different policies. Students with questions about these or other CLAS policies should speak with an academic advisor or with the staff in 120 Schaeffer Hall. Also see the CLAS Academic Handbook:

[www.clas.uiowa.edu/students/academic\\_handbook/index.shtml](http://www.clas.uiowa.edu/students/academic_handbook/index.shtml)

### **Academic Fraud**

Plagiarism and any other activities that result in a student presenting work that is not his or her own are academic fraud. Academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services in the College of Liberal Arts and Sciences who deals with academic fraud according to these guidelines: [www.clas.uiowa.edu/students/academic\\_handbook/ix.shtml](http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml)

### **Making a Suggestion or a Complaint**

Students have the right to make suggestions or complaints and should first visit with the instructor, then with the course supervisor if appropriate, and next with the departmental DEO. All complaints must be made within six months of the incident. [www.clas.uiowa.edu/students/academic\\_handbook/ix.shtml#5](http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5)

### **Accommodations for Disabilities**

A student seeking academic accommodations should first register with Student Disability Services and then meet with a SDS counselor who determines eligibility for services. A student approved for accommodations should meet privately with the course instructor to arrange particular accommodations. See [www.uiowa.edu/~sds/](http://www.uiowa.edu/~sds/)

### **Understanding Sexual Harassment**

Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. See [www.sexualharassment.uiowa.edu/](http://www.sexualharassment.uiowa.edu/)

### **Reacting Safely to Severe Weather**

If severe weather is indicated by the UI outdoor [warning system](#), class members will seek shelter in the innermost part of the building, if possible at the lowest level, staying clear of windows and of free-standing expanses which might prove unstable. The class will resume after the severe weather has ended.