

# Principles of Inorganic Chemistry

**Chemistry 7100** (revised)

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Class www site:

<http://www.chem.utah.edu/chemistry/faculty/miller/class/7100.htm>

*Essential and Advanced Concepts and Good Chemical Intuition for:*

**Inorganic Chemistry Majors  
Bioinorganic Chemistry Majors  
Organic Chemistry Majors  
Materials Science & Solid State Chemistry Majors  
Physical Chemistry Majors  
Physical/Analytical Chemistry Majors**

***Note: You Must use your University of Utah email address as email from other addresses may not be received or Read (Do not send assignments or confidential information by email)***

Text: *Inorganic Chemistry*, J. E. Huheey, E. A. Keiter, R. L. Keiter, 4<sup>th</sup> ed., Harper Collins, 1993

Chapter (and pages) to be covered (tentative):

- 1 - Introduction & Overview (p1-9)
- 2 & 4 & 5- The Structure of the Atom and Periodicity (p10-30, 33-43, 112-118, 182-197)
- 3 - Symmetry, Value of Symmetry, Crystallography (p46-58, 74-85, 233-240)
- 5 - Bonding (p138-167)
- 6 & 12 - Structure (p203-224, 232-233, 240-243, 472-494, 503-531)
- 11 - Bonding (p387-433, 459-465)
- 9 - Hard & Soft Acids & Bases (p344-350)
- 16 - Boron Cage Compounds & Cluster (p789-820)

**Lectures in 2002 HEB (Subject to Unexpected Changes)**

*MWF 10:45 to 11:35 am*

*T: 7:30 to 9:25*

[No classes Sept 6-10, 16,17; Oct 4-8]

**Midterm Examination: Friday, Sept 17 (10:45 to 11:35 am)**

**Final Examination: Tuesday, Oct 19 (7:30 - 9:25 am)**

# General Information

Cellular telephones, pagers etc. must be turned off during all lectures, discussion sections, and examinations. If your phone rings during an exam, you will be dismissed immediately.

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations.

All written information in this course can be made available in alternative format with prior notification to the Center for Disability Services.

## Examination Regrading Policy

Legitimate questions about the grading of an exam (either the grading of a particular problem or an addition error in the score) can be submitted up to one week after the exam is handed back in your discussion class. The procedure for handing back an exam for regrade is to attach a separate piece of paper to the front of the exam with your name, your student ID number, the number of the question(s) to be regraded, and a clear, brief justification for the regrade. This is to be submitted to me (HEB 2124) or to my secretary (HEB 2120).

**Do not write on the exam itself** or I may choose not to accept it for a regrade. Trivial resubmissions are strongly discouraged and may result in the entire exam being regraded. Anyone caught turning in an altered exam for additional credit will be promptly referred to the Dean's Office and be given a Grade of 'E.'

Incidents of academic dishonesty will be dealt with severely. Anyone caught cheating on an exam will be referred to the Dean for immediate disciplinary action and should expect to receive an 'E' in the course. A typical way to cheat is to alter an incorrect question on a graded exam and then hand it back to be regraded. To monitor this problem, a certain proportion of all exams will be photocopied, and exams handed back for regrade will be compared to these. Additionally, a letter detailing the cheating incident will be put in the student's permanent academic file.