

FD '02

CHAMINADE UNIVERSITY
CH 403 INORGANIC CHEMISTRY

Fall 2002

Instructor: Janet Jensen **Office:** Henry Hall 24
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Office Hours: MWF 10-11 AM, Tu,Th 1-2 PM, or by appointment
Class Meetings: To be arranged

Course Objective:

To introduce the fundamental concepts of inorganic chemistry. The main focus will be on modern theories of bonding, molecular structure, and the impact of structure and bonding on reactivity. Topics also covered include spectroscopy, acid-base theory and transition metal catalysis.

Texts:

Reading and homework problems will be assigned from the following textbooks:

- Basic Inorganic Chemistry*, Cotton, Wilkinson and Gaus.
- Concepts and Models of Inorganic Chemistry*, Douglas, McDaniel and Alexander.
- Inorganic Chemistry*, Shriver, Atkins and Langford.

These texts will be available for the students through the instructor.

Exams and Grading:

The course grade will be based on homework assignments (25%), quizzes (25%), three exams (35%) and a research paper (15%). More information will be discussed in class.

WEEK	DATES	TOPIC
1	Aug 26-30	Introduction, General Chemistry Review
2	Sept 3-6	Atomic Structure
3	Sept 9-13	Molecular Structure
4	Sept 16-20	Molecular Structure cont.
5	Sept 23-27	Molecular Shape and Symmetry
6	Sept 30-Oct 4	Symmetry cont.
7	Oct 7-11	Structures of Solids
8	Oct 15-18	Acids and Bases
9	Oct 21-25	Main Group Elements
10	Oct 28-Nov 1	Coordination Chemistry
11	Nov 4-8	Coordination Chemistry cont.
12	Nov 12-15	Spectra and Bonding
13	Nov 18-22	Organometallic Chemistry
14	Nov 25-27	Organometallic Chemistry cont.
15	Dec 2-6	Bioinorganic Chemistry