INSTRUCTOR: Louis J. Kirschenbaum

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This course will deal primarily with atomic, molecular and solid state structures, bonding and acid-base chemistry. Descriptive chemistry of some representative elements will be covered in student presentations. Material covered will be taken from the following chapters of DM&A:

- Chapt. 1 Atomic Structure and the Periodic Table
- Chapt. 2 Molecular Models
- Chapt. 3 Symmetry
- Chapt. 4 Discrete Molecules: Molecular Orbitals
- Chapt. 5 Inorganic Solids: Ionic Models
- Chapt. 6 Solid-State Chemistry
- Chapt. 7 Acids and Bases

Grading will be based on a mid term exam and a final (Wednesday, December 19 @3PM), several homework assignments, a short report, and classroom presentation.

Some other Useful Texts/monographs:

- Pauling: Nature of the Chemical Bond
- Hertzberg: Atomic Spectra and Atomic Structure
- Cotton: Chemical Applications of Group Theory
- Day/Selbin: Theoretical Inorganic Chemistry
- Coulson: Valence
- Cotton & Wilkinson: Advanced Inorganic Chemistry
  (6th ed with Murillo & Bochman: earlier editions are stronger on principles)

There are several other comprehensive inorganic texts
- you may already have one.

The above are some of the "classics" to which I will often refer. There are a number of other good texts and monographs in the URI library and in my office.