

Advanced Inorganic Chemistry I (CHE 442)

Potential Instructors*	Dr. Shabnam Hematian; s_hemati@uncg.edu Dr. Jerry Walsh; jlwalsh@uncg.edu
Prerequisites	CHE 342; CHE 406 or CHE 461 are recommended
Corequisites	None
Sample Course Materials	Textbook: <i>Inorganic Chemistry</i> by Catherine E. Housecroft and Alan G. Sharpe <i>Inorganic Chemistry</i> by Mark Weller, Tina Overton, Jonathan Rourke, and Fraser Armstrong
For Whom Planned	CHEM and BCHE majors
Topical Outline[§]	<ul style="list-style-type: none">▪ Basic Concepts: Atoms▪ Basic Concepts: Molecules▪ Introduction to Molecular Symmetry▪ Bonding in Polyatomic Molecules▪ Acids and Bases▪ Reduction and Oxidation▪ <i>d</i>-Block Metal Chemistry: General Consideration▪ <i>d</i>-Block Metal Chemistry: Coordination Complexes▪ Crystal Field Theory and Ligand Field Theory▪ <i>d</i>-Block Metal Complexes: Reaction mechanisms▪ Organometallic Chemistry vs. Bioinorganic Chemistry
Notes	

* To request a comprehensive syllabus, you may contact the instructor for your section directly.

[§] Subject to change