

CHE 321. Course Outline. Fall 2007

Instructor: Professor Melvyn R. Churchill
Class time: MWF 11:00 – 11:50 a.m. (NSC 218)
Office hours (NSC 532): M,W noon – 1:00 p.m. (or by appointment)
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Text: Cotton, Wilkinson & Gauss, ***Basic Inorganic Chemistry***, 3rd ed (1995)

Hour Exams (Each will be graded out of 100 points)

Friday September 28

Wednesday October 18

Wednesday November 14

Friday December 07

PART 1 – General Considerations

Electronic Structure of Atoms (Chapter 2)

Structure & Bonding in Covalent Molecules (Ch.3)

Introduction to Group Theory (Symmetry, Point Groups) (Appendix I)

Periodic Table & Chemistry (Ch. 8)

PART 2 – Transition Metals

Co-ordination Chemistry (Ch. 6)

Introduction to Transition Elements (Ch. 23)

First Transition Series (Ch. 24)

Second & Third Transition Series (Ch. 25)

Metal Carbonyls (Ch. 28)

PART 3 – Miscellaneous (*order subject to change; not all will be covered*)

Properties of Main Group Elements - as time allows.

Ionic Solids (Ch.4)

Chemistry of Selected Anions (Ch. 5)

Solvents, Acids & Bases (Ch. 7)