

Inorganic Chemistry Laboratory

Chemistry 336

Section: D100

Term: 2000 Spring

Instructor: Dr. L. Hanlan

Office: C-8066.

Discussion Topics: General Course Description:

Laboratory experiments in coordination, organometallic and solid state chemistry, involving synthesis, characterization and spectroscopy.

0 lecture hours/week; 0 tutorial hour/week; 4 lab hours.

Topics:

Week 1-5. Coordination Chemistry: synthesis and characterization of a variety of transition metal coordination complexes. Includes isomerization and kinetics studies.

Week 6-10: Organometallic Chemistry: synthesis and characterization of organometallic complexes. Vacuum line techniques and photochemistry will be introduced.

Week 11-13: Solid State Chemistry: includes the preparation of perovskite ceramics and a superconductor.

Grading: 75% Lab Results, Reports and Technique.

25% Written Quiz.

Required Texts: No textbook is required.

The Laboratory Manual will be handed out the first week.

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Recommended Texts: None

Materials/Supplies: Students must purchase Safety Glasses.

Prerequisite/Corequisite: CHEM 332 must precede or be taken concurrently.

Notes: None

This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.