

Faculty of Science Course Syllabus
Department of Chemistry
Organometallic Structure and Bonding – CHEM 6151
Fall 2017

Instructor: Laura Turculet laura.turculet@dal.ca CHEM 414

Lectures: MWF 9:35 - 10:25 am LSC C332

Laboratories: N/A

Tutorials: TBA

Office Hours: by appointment

Course Description

Modern bonding theories are developed using symmetry concepts. These are applied to understanding the molecular structure, reactivity and spectroscopic properties of transition metal/organometallic complexes.

Course Prerequisites

CHEM 4102.03, CHEM 5102.03 or permission of the instructor

Course Objectives/Learning Outcomes

To develop a symmetry-based approach to understanding modern bonding models and spectroscopic properties of transition metal complexes.

Course Materials

Inorganic Chemistry, 5th Ed. Miessler, Fischer and Tarr Pearson, 2014 (Dalhousie Bookstore)

Course Assessment

Assignments weekly, 50%

Tests/quizzes one test, 50% (date TBA).

Other course requirements

In addition to lectures, this course will also be comprised of a weekly tutorial session.