

ORGANOMETALLIC CATALYSIS AND NANOTECHNOLOGY

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Description:

Students will be involved in the synthesis and characterization of organometallic compounds which are precursors to homogeneous and heterogeneous catalysts.

Objectives:

Students will learn skills in the synthesis and isolation of air-sensitive organometallic compounds. They will also learn characterization techniques including NMR, mass spectrometry, IR, and x-ray crystallography. In addition the incorporation of molecular complexes into nano-phased materials will be explored.

Prerequisites:

Students should have completed Chemistry course work through Organic Chemistry and possess good laboratory skills.