

CHEM 3000 3.0 – Experimental Chemistry I

Course Director: Dr. Arturo Orellana (for 2012-2013 academic year)

Learning Outcomes

1. Develop and apply skills relevant to the synthesis of organic and inorganic compounds.
2. Develop and apply skills relevant to the isolation and purification of organic and inorganic compounds.
3. Develop and apply skills relevant to the identification of organic and inorganic compounds.
4. Develop skills relevant to the study and understanding of the mechanism of chemical reactions.
5. Use chemistry data-searching engines (scifinder and reaxys) to retrieve chemical information. Become familiar with accessing the primary chemical literature.
6. Develop data analysis skills.
7. Develop scientific record-keeping skills.
8. Develop writing skills through formal laboratory report-writing.
9. Become familiar with a range of preparative and analytical instrumentation used in chemistry research.

Assessment Marked lab reports (100%)