

# Crafton Hills College - Outcomes Assessment Report

Course: CHEM 212 (Organic Chemistry I)

Term:  
Date: XXXX

## 1. Learning Outcomes Statement

- The ability to distinguish, construct and compare organic compounds utilizing structure, physical properties, nomenclature, synthesis and reactions.
- Comprehension and use of laboratory skills in synthetic, quantitative and instrumental methods as scientific approaches to gathering and verifying knowledge.
- Critical thinking in chemistry including interpretation, evaluation, explanation and critical inquiry; how to ask appropriate questions, gather relevant information efficiently and creatively, sort through this information, reason logically from this information and come to reliable and trustworthy conclusions.
- The ability to collect, analyze, and articulate results clearly and effectively in speech and in writing in an acceptable style of presentation. The ability to follow directions given both in written and verbal form.

Specific Outcomes assessed for the data presented	SLO measured
Students will be able to effectively use nomenclature to name or provide structures of organic compounds.	1,3
Students will be able to classify organic compounds into various groups such as functional groups, carbon type, or reaction types.	1,3
Identify organic compound using spectroscopy data such as; MS, IR, NMR	1,3,4
Students will be able to collect, analyze and present data and results effectively in the form of laboratory reports, or research papers.	2,4

## 2. Means of Assessment (Measurement Method)

Percent of students who earn an A or B for the course

## 3. Criteria for Success (Benchmark)

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## 4. Summary of Evidence

We have seen an increase in the success of our students overall. The percent of students who earn an A or B for the course has increased from 75% in Fall 2009, to 88.2% Fall 2010, to 100% in Fall 2011.

*5. Use of Results (Implications for Program Improvement & Planning)*

Instructors have analyzed the results, discussed results with other faculty and staff, and made appropriate changes to the course to improve the outcome results for students. Changes such as, revised lecture notes, revised PowerPoint presentations, additional problems worked out in class, review sheets, and additional homework problems assigned are examples of some of the techniques instructors have used. I remind students many more times throughout the year that for many universities, a B or better is required to transfer. This has encouraged them to keep up their grades.