

Crafton Hills College - Outcomes Assessment Report

Course: CHEM-102 (Introduction to Organic Chemistry)

Term:
Date: XXXX

1. Learning Outcomes Statement

1. The ability to distinguish, construct and compare organic compounds utilizing structure, physical properties, nomenclature, synthesis and reactions.
2. Comprehension and use of laboratory skills in synthetic, quantitative and instrumental methods as scientific approaches to gathering and verifying knowledge.
3. 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.
4. 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
Effectively use nomenclature to name or provide structures of organic compounds.	1,3
Classify organic compounds into various groups such as functional groups or reaction types.	1,3
Write and complete organic reaction equations.	1,3
Collect, analyze and present data and results effectively in the form of laboratory reports.	2,4

2. Means of Assessment (Measurement Method)

The lab assessment was measured by comparing the students' scores from experiment 1 lab reports comparing it to experiment 9 reports.

The percent of students who correctly answered two or three of the questions on the final exam

3. Criteria for Success (Benchmark)

4. Summary of Evidence

We have seen an increase in the success of our students overall. The percent of students who correctly answered two or three of the questions on the final exam increased from spring 2010 to summer 2010 from 66.7 % to 92.9%. The lab assessment was measured by comparing the students' scores from experiment 1 lab reports comparing it to experiment 9 reports. Reported is the percent of students who scored 90% or higher on lab reports. Data shows an increase for experiment 9, Spring 2010 to summer 2011 from 95.2 % to 100%. In spring 2012, 100% of the students scored 90% or higher on both experiments.

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.