

## COURSE SLO ASSESSMENT REPORT, SCC

Department:   Biology   Course:   Biology 109Lab  

Year:   2013   Semester:   Spring  

1) Outcome to be assessed	2) Means of assessment and criteria of success	3) Summary of data collected	4) Analysis of data	5) Plan of action/what to do next
<p>Conduct laboratory investigations according to given experimental procedure, collect and analyze resulting experimental data, and formulate valid conclusions based on the results.</p>	<p>Students independently conducted experimental tests on an unknown chemical substance to identify the type of organic molecule it contained. They then explained the steps of the procedure for each test including the use of the proper reagents. Students reported the test results for each test and concluded which organic molecule their unknown contained. A department-approved rubric was used to score the degree of understanding regarding the experimental procedure and results.</p>	<p>165 students were tested in different sections by different instructors. The data was then pooled.</p> <p>84.2% of students received full credit by completing the assignment could discuss it without error.</p> <p>13.9% made one error on either following the procedure or analyzing the data.</p> <p>Only 1.8% of the students made more than one error.</p>	<p>The analysis of this SLO occurs when students learn to perform analysis of biologically important molecules and then perform the tests and analyze their results to draw a conclusion regarding an assigned unknown solution.</p> <p>In general, students do seem to be able to achieve stated goals for this SLO.</p>	<p>The use of the rubric to score students was discussed at a pre-semester meeting and each semester a reminder of what was discussed is now sent to the instructors about to begin the experiment. The variability between instructors has been reduced and the students are doing well. We will continue to use this rubric and will continue to attempt to standardize its use among instructors, including adjuncts.</p>