

COURSE SLO ASSESSMENT REPORT, SCC

Department: **Biology**

Course: **Biol-229 General Microbiology**

Year: 2013

Semester: Fall

<p>1) Outcome to be assessed</p> <p>Demonstrate a coherent understanding of the diversity of microorganisms and their role in the biosphere.</p>	<p>2) Means of assessment and criteria of success</p> <p>10 Embedded questions in exam 1 relating to the topic</p> <p>Based on previous data, I have set my benchmark for success at 50% correct answers on the post test.</p>	<p>2) Summary of data collected</p> <p>Of 63 students who took the exam, only 22% (n=14) answered ½ of the questions correctly. 50% correct was my benchmark that I set because of past experience with the course.</p>	<p>4) Analysis of data</p> <p>The students did not meet the benchmark. This pass rate looks much more like the pre-test score of the previous semesters. Despite being an exam, the measurement of SLO success is very low. This may relate to timing in the semester. SLO assessment probably should only be done at the end of the semester.</p>	<p>5) Plan of action/what to do next</p> <p>I performed the analysis differently to try the new PAR system. I did not do the pre-post test as before but used questions in the first exam. If I use the system again, I need to assess SLOs only at the end of the semester, perhaps in the final or as a stand alone exam. I may return to the pre-post test.</p>
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<p>Outcome to be assessed</p> <p>Employ the principles of the scientific method to both laboratory and conventional investigations.</p>	<p>2) Means of assessment and criteria of success</p> <p>Rubric used to score unknown reports. The expectation is that greater than 80% of the students will be scored as successfully meeting the expectations</p>	<p>3) Summary of data collected</p> <p>44/50 assessed students 88% demonstrated an unflawed, logical progression from their hypothesis to their conclusion</p>	<p>4) Analysis of data</p> <p>Most students understand the process of the scientific method and can apply logical reasoning. 6/50 made a minor error Which affected their outcome.</p>	<p>5) Plan of action/what to do next</p> <p>The identification of an unknown microorganism is still a successful undertaking with the vast majority of students successfully employing scientific investigation. This project will continue to be utilized.</p>
<p>Outcome to be assessed</p> <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>2) Means of assessment and criteria of success</p> <p>Rubric used to score unknown reports. The expectation is that greater than 80% of the students will be scored as successfully meeting the expectations</p>	<p>3) Summary of data collected</p> <p>40/50 (80%) of students interpreted all the experimental results correctly and documented ALL necessary evidence for their conclusion</p>	<p>4) Analysis of data</p> <p>10/50 students made an error in test interpretation which affected their conclusions. The percent of students successfully achieving this outcome is slightly lower than expected but still acceptable.</p>	<p>5) Plan of action/what to do next</p> <p>This project is almost ideal in engaging students in the scientific process. I will continue to use this project and assess the outcome.</p>