

COURSE SLO ASSESSMENT REPORT, SCC

Department: **Biology**

Course: **Biol-229 General Microbiology**

Year: 2011

Semester: Falll

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| <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>Embedded questions (multiple choice, true/false) in an end- of the semester assessment. Students should be able to answer over 70% of the questions correctly</p> | <p>3) Summary of data collected</p> <p>Of the 19 embedded questions, 73% were answered correctly by the class.</p> | <p>4) Analysis of data</p> <p>There are 6 of the 19 questions that 65% or fewer students get correct. The other 13 questions 70% or more of the students answered correctly.</p> | <p>5) Plan of action/what to do next</p> <p>Clearly, there are still a few areas that were not emphasized enough since the class average for some specific questions was low. I will attempt to focus more attention, perhaps develop a new DLA to cover microorganism diversity.</p> |
| <p>2) 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>3 multiple choice questions in the end-of-semester assessment and</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>73.8% or greater answered the questions correctly.</p> <p>48/54 students demonstrated a logical progression from their hypothesis to their conclusion</p> | <p>4) Analysis of data</p> <p>Students understand the concept of the scientific method and can answer multiple choice questions regarding it.</p> <p>4 students made a major error which lead to a faulty conclusion.</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> |

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| <p>1) 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>53/54 students interpreted all the experimental results correctly and 47/54 documented ALL necessary evidence for their conclusion</p> | <p>4) Analysis of data</p> <p>6/54 students made minor errors in providing evidence to support their conclusions. One student made a major omission.</p> | <p>5) Plan of action/what to do next</p> <p>The requirement for <i>evidence-based</i> conclusions were emphasized and seemed to improve the reporting on the part of the students.</p> |
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