

**COURSE SLO ASSESSMENT REPORT, SCC**

Department: Biology Course: Biology 212 Animal Diversity & Ecology

Year: 2011 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  |
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| <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>A virtual lab experiment with multiple parameters that mimicked the population dynamics of a group of moose on Isle Royal in Lake Michigan was conducted. After reading introductory information on the history of the introduction of the moose to this island, students wrote a hypothesis and a prediction as to the outcome of the experiment. After conducting the experiment a conclusion that was to accurately reflect the results was written indicating whether the hypothesis was supported. It is expected that 30% of the student reports would contain a valid hypothesis, prediction, and conclusion based on the experiment. 50% would have one part of the exercise that was not an accurately reflection of the experiment, and the remaining 20% would have more than one aspect of their report that was not accurate or valid.</p> | <p>Twenty students conducted this exercise. Nine of the twenty student reports (45%) contained valid hypotheses, predictions, and conclusions relative to the experiment. Ten students (50%) either did not consider the outcome of the experiment overtime (6 students) or did not have a valid conclusion relative to their hypothesis and prediction (3 students) or their hypothesis was not clearly stated (1 student). One student had an invalid hypothesis and also lacked both a valid prediction and conclusion (5%).</p> | <p>It was expected that 30% of the student reports would contain a valid hypothesis, prediction, and conclusion while 50% would contain one inaccuracy and 20% would contain more than one inaccuracy. The actual results show that a much higher percentage of students had no inaccuracies than expected (45% versus 30%), the number of students expected to have one inaccuracy was the 50% expected, but percent of students with more than one inaccuracy in their report was much lower than expected (5% versus 20%).</p> | <p>This was the first assessment for this specific SLO and more data needs to be collected even though the results definitely exceeded expectations.</p> |