

**COURSE SLO ASSESSMENT REPORT, SCC**

Department: Biology Course: Biology 109 Lab

Year: 2009 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>A. Employ (Apply) the steps of the scientific method to conduct laboratory investigations.</p>	<p>3 short answer questions on the practical exam- to be given in each lab section. 65% correct expected for C question, 20% correct for B question and 10% correct for A question</p>	<p>1. In the scientific method, what does the experiment test? (C level)            [redacted] S09 sections:            17/19 correct; 22/27; 22/25; 22/25; 18/26            [redacted] section 27/27            [redacted] sections 20 /21; 21/25; 26/29            [redacted] 22/23</p> <p>2. For the skin temperature experiment you conducted, list 2 variables that could influence your conclusion. (B level)            [redacted] S09            19/19; 27/27; 25/25; 26/26            [redacted] section 27/27            [redacted] sections 20 /25 ; 24/24; 29/29            [redacted] 18/23 (1/23 half)</p> <p>3. How could you change the experiment in order to eliminate the variables you listed? (A level)            [redacted] S09 Tues am lab            17 correct 1 half credit 1 incorrect            [redacted] S09 ;            19 correct 6 half credit 2 incorrect;            19 correct 6 half credit            21 correct 4 half credit 1 incorrect            [redacted] section 26 correct 1 incorrect            [redacted] sections 15.5 correct 5.5 wrong/ 19.5 correct 4.5 wrong/ 21 correct 8 wrong            [redacted] 22/23</p>	<p>Acceptable levels of understanding for all questions. More students understand variables of an experiment than the purpose of the experiment in the method. This could be improved (C question versus B question). The A question, as expected is a little more difficult for students to comprehend but, nevertheless, a majority of students do understand how to manipulate an experiment in order to control for variables.</p>	<p>The teaching of the scientific method appears to be satisfactory. We should move on and assess the other SLO.</p>