



Course SLO Assessment Report - 4-Column

El Camino College

El Camino: Course SLOs (NSC) - Astronomy

Course SLOs	Assessment Methods & Standard and Target for Success / Tasks	Results	Action & Follow-Up
<p>El Camino: Course SLOs (NSC) - Astronomy - ECC: ASTR 25 - Stars and Galaxies - SLO #1 Scientific Method - Students will be able to recognize the elements of the Scientific Method in the discussion of a scientific problem. (Created By El Camino: Course SLOs (NSC) - Astronomy)</p> <p>Course SLO Assessment Cycle: 2013-14 (Spring 2014)</p> <p>Input Date: 11/12/2013</p> <p>Course SLO Status: Active</p>	<p>Assessment Method Description: The student will be given a popular science article about an observation or experiment. The student will identify the researchers' hypotheses, theoretical predictions, observations or experiments, and conclusions.</p> <p>Assessment Method: Essay/Written Assignment</p> <p>Standard and Target for Success: Rubric:</p> <p>1 point for correctly identifying the hypotheses 1 point " " " the prediction to be tested 1 point " " " the experimental result or observation 1 point " " " a reasonable conclusion based on the results</p> <p>4 points: Excellent 3 points: Good 2 points: Fair 1 point: Poor</p> <p>Target: 75% or more score 3 or 4.</p>	<p>09/17/2014 - Instructor A</p> <p>4 pts 32% 3 pts 28% 2 pts 36% 1 pt 4%</p> <p>Instructor B</p> <p>4 pts 19% 3 pts 26 % 2 pts 42% 1 pt 12%</p> <p>This is the first time this assessment has been done. It is similar to assessments given in other science departments, but the results turned out to be unhelpful. Most students simply copied sentences from the article, so it was unclear whether they really understood the idea of the scientific method. One instructor observed that it was more a test of reading comprehension.</p> <p>Unfortunately, the topic was rather technical and hard to understand, although interesting and important. Later it turned out that the conclusions drawn in the study reported in the article have not been confirmed by other researchers, so the topic is highly controversial. That might be the take-off point for a good discussion of the scientific method if it weren't so technically obscure.</p> <p>Standard Met? : No</p> <p>Semester and Year Assessment Conducted: 2013-14 (Spring 2014)</p> <p>Faculty Assessment Leader: S. Vincent Lloyd</p> <p>Faculty Contributing to Assessment: S. Kadakia</p>	<p>09/01/2015 - Develop and administer a new assessment instrument similar to that used in Astro 20.</p> <p>Action Category: SLO/PLO Assessment Process</p>