



FALL 2014 Course SLO Assessment Report - 4-Column

El Camino College

El Camino: Course SLOs (NSC) - Astronomy

Course SLOs 1 and ctu.unitid = 763	Assessment Methods & Standard and Target for Success / Tasks	Results			Action & Follow-Up														
<p>ECC: ASTR 20 - The Solar System - SLO #3 Planet Origins - Students will be able to describe the modern theory of the origin of the planets and discuss the evidence that supports the theory.</p> <p>Course SLO Assessment Cycle: 2014-15 (Fall 2014)</p> <p>Input Date: 11/12/2013</p> <p>Course SLO Status: Active</p>	<p>Assessment Method Description: In a short essay, describe the nebular theory of the formation of the planets. Discuss the evidence that supports the theory.</p> <p>Assessment Method: Essay/Written Assignment</p> <p>Standard and Target for Success: 4 points: The student's explanation includes a description of the collapse of a molecular cloud, formation of a proto-star, condensation, accretion, and collisions. The motions of the planets and the composition of terrestrial vs. giant planets is discussed. 3 points: The process of planet formation is well-described, but the discussion of the evidence is incomplete. 2 points. The process of planet formation is fairly well described, but no supporting evidence is mentioned. 1 point. The process of collapse is mentioned, but several steps are omitted. No supporting evidence is presented.</p> <p>Target 80% of students will score 3 or 4.</p>	<p>04/10/2015 - Points</p> <table border="1"> <tr> <td>0</td> <td>6 (25%)</td> <td>19 (33%)</td> </tr> <tr> <td>1</td> <td>0 (0%)</td> <td>36 (62%)</td> </tr> <tr> <td>2</td> <td>2 (8%)</td> <td>1 (2%)</td> </tr> <tr> <td>3</td> <td>5 (20%)</td> <td>1 (2%)</td> </tr> <tr> <td>4</td> <td>11 (44%)</td> <td>1 (2%)</td> </tr> </table> <p>Analysis</p> <p>The two instructors got strikingly different results. One reason could be that Instructor A did the assessment as a take-home assignment while Instructor B put it on an in-class exam. Based on this result, it appears that students benefit from doing a written assignment before taking an exam.</p>	0	6 (25%)	19 (33%)	1	0 (0%)	36 (62%)	2	2 (8%)	1 (2%)	3	5 (20%)	1 (2%)	4	11 (44%)	1 (2%)	<p>Instructor A</p> <p>Instructor B</p>	<p>12/01/2015 - Administer the assessment in a consistent way. Give the students a written assignment.</p> <p>Action Category: SLO/PLO Assessment Process</p>
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		<p>the stages they forget to mention or have difficulty describing.</p> <p>Other possible reasons for a lower score: Did they forget to discuss or distinguish between both terrestrial and giant planets? Was it a lack of discussion of evidence? What was the most common piece of evidence that they mentioned? What was the piece of evidence they forgot to mention? Was there evidence that they did not describe accurately? Was there evidence that they described, but they did a poor job of showing how or why it supports the hypothesis?</p> <p>If you have this kind of data, I recommend that you discuss the one area where students did worst, and suggest a teaching strategy for addressing it. If you do NOT have this kind of data, then I suggest that your action is to record and keep this kind of data during the next assessment of this SLO so that you'll be able to develop a "teaching strategy" action next time.</p>	