

# Assessment: Course Four Column

FALL 2015



## El Camino: Course SLOs (NSC) - Astronomy

### ECC: ASTR 20:The Solar System

Course SLOs	Assessment Method Description	Results	Actions																				
<p><b>SLO #2 Seasons</b> - Students will be able to explain the causes of seasonal variations in the length of the day, direction of sunrise and sunset, and the amount of solar heating on the Earth.</p> <p><b>Course SLO Status:</b> Active</p> <p><b>Course SLO Assessment Cycle:</b> 2015-16 (Fall 2015)</p> <p><b>Input Date:</b> 11/12/2013</p>	<p><b>Exam/Test/Quiz</b> - Four multiple-choice questions are given. The questions are based on a diagram showing the Sun's path for 3 different times of the year. They are given towards the end of the semester as part of an exam. The material is taught either at the beginning or middle of the semester. For each question, it is calculated what percent of total assessed students gave the correct answer. The assessment is attached.</p> <p><b>Standard and Target for Success:</b> It is expected that 80% of students answer each question correctly.</p> <p><b>Related Documents:</b>  <a href="#">A20.Seasons.SLO.F2011.doc</a></p>	<p><b>Semester and Year Assessment Conducted:</b> 2015-16 (Fall 2015)</p> <p><b>Standard Met?</b> : Standard Not Met</p> <p>The number of students as well as the percentage who answered each question correctly is shown</p> <table> <tr> <th></th><th>Prof. A</th><th>Prof. B</th><th>Combined</th></tr> <tr> <td>Question 1</td><td>78 (76.5%)</td><td>122 (75%)</td><td>75% correct of total assessed</td></tr> <tr> <td>Question 2</td><td>87 (85.3%)</td><td>126(78%)</td><td>80% correct of total assessed</td></tr> <tr> <td>Question 3</td><td>72(70.6%)</td><td>108(67%)</td><td>68% correct of total assessed</td></tr> <tr> <td>Question 4</td><td>64(62.7%)</td><td>84(52%)</td><td>56% correct of total assessed</td></tr> </table> <p>Both professors obtained the same pattern in their results. Question 2 received the highest percentage correct, while question 4 was well-below the standard.</p> <p>The questions are based on a diagram. The diagram may not be well understood.</p> <p>It does seem clear that most students understand how the path length of the Sun is related to the seasons and the temperature. It is not clear if they understand how the path is related to the hours of day. We may need to stress that point more in lecture.</p>		Prof. A	Prof. B	Combined	Question 1	78 (76.5%)	122 (75%)	75% correct of total assessed	Question 2	87 (85.3%)	126(78%)	80% correct of total assessed	Question 3	72(70.6%)	108(67%)	68% correct of total assessed	Question 4	64(62.7%)	84(52%)	56% correct of total assessed	<p><b>Action:</b> Include at least one question on homework/exams/class activities that directly asks about the relationship between the path length of the Sun and the number of hours the Sun would be visible. (02/05/2017)</p> <p><b>Action Category:</b> Teaching Strategies</p>
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It may be the case that the questions and answers may not be worded as clearly, and need to be revised. (02/05/2016)

**Faculty Assessment Leader:** Shimonee Kadakia

**Faculty Contributing to Assessment:** Vincent Lloyd

**Related Documents:**

[Astro20\\_results\\_fall2015\\_SLO2.docx](#)