

COURSE SLO ASSESSMENT REPORT, SCC

Department: Astronomy Course: 109
 Year: 2013 Semester: Spring

1) Outcome to be assessed <i>(verbatim and in the same order as in CurricUNET)</i>	2) Means of assessment and criteria of success <i>(include % of students expected to meet criteria of success)</i>	3) Summary of data collected <i>(include # of students assessed and % meeting each SLO)</i>	4) Analysis of data	5) Plan of action/what to do next
<p>1) Apply scientific reasoning to future astronomical discoveries to understand their validity.</p>	<p>Assessment consisted of 6 multiple-choice questions embedded into a cumulative final.</p> <p>The criterion for successfully meeting the SLO is a collective 60% of the students taking the assessment correctly answering the questions.</p>	<p>A total of 178 students from four different sections of the course were surveyed.</p> <p>Of the 178 students surveyed for the final exam assessment, 75% of the students correctly answered the questions regarding this SLO.</p> <p>With 75% of the students meeting the SLO, the SLO is considered to be successfully met.</p>	<p>Of the 6 questions used in the survey, there were no questions that more than 50% of the students missed.</p> <p>With 75% of our students successfully working through the questions, we are confident that our students apply scientific reasoning to future astronomical discoveries to understand their validity.</p>	<p>Faculty are encourage to continue to seek ways to improve instruction and assessment, no major correction recommended.</p> <p>The faculty are encouraged to continue instruction with a student-centered format, similar to those techniques was used in the facilitation of the sections surveyed.</p> <p>The faculty are encouraged to review the questions related to the SLO to ensure they are the most appropriate questions for assessing the SLO.</p>

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<p>2) Demonstrate an understanding that astronomy is based upon observations of the sky and how those observations explain some basic phenomena of nature.</p>	<p>Assessment consisted of 7 multiple-choice questions embedded into a cumulative final.</p> <p>The criterion for successfully meeting the SLO is a collective 60% of the students taking the assessment correctly answering the questions.</p>	<p>A total of 178 students from four different sections of the course were surveyed.</p> <p>Of the 178 students surveyed for the final exam assessment, 64% of the students correctly answered the questions regarding this SLO.</p> <p>With 64% of the students meeting the SLO, the SLO is considered to be successfully met.</p>	<p>Of the 7 questions used in the survey, there was one question that more than 50% of the students missed. If this question is omitted, the success rate goes up to 66%.</p> <p>With 64% of our students successfully working through the questions, we are confident that our students can demonstrate an understanding that astronomy is based upon observations of the sky and how those observations explain some basic phenomena of nature.</p>	<p>Faculty are encourage to continue to seek ways to improve instruction and assessment, no major correction recommended.</p> <p>The faculty are encouraged to continue instruction with a student-centered format, similar to those techniques was used in the facilitation of the sections surveyed.</p> <p>The faculty are encouraged to review the questions related to the SLO to ensure they are the most appropriate questions for assessing the SLO.</p>

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<p>3) Explain how gravity is related to the formation, interaction, and evolution of the solar system.</p>	<p>Assessment consisted of 5 multiple-choice questions embedded into a cumulative final.</p> <p>The criterion for successfully meeting the SLO is a collective 60% of the students taking the assessment correctly answering the questions.</p>	<p>A total of 178 students from four different sections of the course were surveyed.</p> <p>Of the 178 students surveyed for the final exam assessment, 58% of the students correctly answered the questions regarding this SLO.</p> <p>With 58% of the students meeting the SLO, the SLO is considered to be partially met.</p>	<p>Of the 5 questions used in the survey, there were two questions that more than 50% of the students missed. If these questions are omitted, the success rate goes up to 72%.</p> <p>In examining the two questions that more than 50% of the students missed, it appears wording may be an issue for one. When solely that one question is omitted, the success rate rises to 65%.</p> <p>With 65% of our students successfully working through the questions (except for the one questions with questionable wording), we are confident that our students can explain how gravity is related to the formation, interaction, and evolution of the solar system.</p>	<p>Faculty are encourage to continue to seek ways to improve instruction and assessment, no major correction recommended.</p> <p>The faculty are encouraged to continue instruction with a student-centered format, similar to those techniques was used in the facilitation of the sections surveyed.</p> <p>The faculty are encouraged to review the questions related to the SLO to ensure they are the most appropriate questions for assessing the SLO.</p>
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