

COURSE SLO ASSESSMENT REPORT, SCC

Department: Astronomy Course: 110
 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 as well as to everyday situations.</p>	<p>Assessment consisted of 12 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 122 students from three different sections of the course were surveyed.</p> <p>Of the 122 students surveyed for the final exam assessment, 68% of the students correctly answered the questions regarding this SLO.</p> <p>With 68% of the students meeting the SLO is considered to be successfully met.</p>	<p>Of the 12 questions used in the survey there were two questions that more than 50% of the students missed. If these two questions are omitted the success rate goes up to 69%.</p> <p>With over 2/3 of our students successfully working through the questions we are confident that our students are able to interpret presented information and draw reasonable conclusions as to the validity of the proclamation.</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) Discuss how light is used by astronomers to learn about the universe.</p>	<p>Assessment consisted of 18 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 122 students from three different sections of the course were surveyed.</p> <p>Of the 122 students surveyed for the final exam assessment, 65% of the students correctly answered the questions regarding this SLO.</p> <p>With 65% of the students meeting the SLO is considered to be successfully met.</p>	<p>Of the 18 questions used in the survey there were five questions that more than 50% of the students missed. If these questions are omitted the success rate goes up to 73%.</p> <p>With 65% of our students successfully working through the questions we are confident that our students can understand and discuss how and in what ways light is used to determine properties of astronomical objects.</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) Discuss how gravity is related to the formation, interaction, and evolution of the solar system, stars, galaxies, and the universe.</p>	<p>Assessment consisted of 13 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 122 students from three different sections of the course were surveyed.</p> <p>Of the 122 students surveyed for the final exam assessment, 62% of the students correctly answered the questions regarding this SLO.</p> <p>With 62% of the students meeting the SLO is considered to be successfully met.</p>	<p>Of the 13 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 69%.</p> <p>With 62% of our students successfully working through the questions we are confident that our students can understand and discuss the vital role gravity plays in the formation of stars, the solar system and extra-galactic interactions throughout the universe.</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>