

**COURSE SLO ASSESSMENT REPORT, SCC**

Department: Astronomy Course: 112

Year: 2012 Semester: Spring

1) Outcome to be assessed	2) Means of assessment and criteria of success	3) Summary of data collected	4) Analysis of data	5) Plan of action/what to do next
<p>A. Upon successful completion of the course, students should be able to apply scientific reasoning to future astronomical discoveries to understand their validity as well as to everyday situations.</p>	<p>Assessment consisted of a set of three 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>Of the 37 students surveyed for the final exam assessment, 53% of students correctly answered the questions regarding the SLO.</p> <p>The question with the lowest correct amount had an average of 37% correctly answering the question.</p>	<p>Two of the three questions had a success rate lower than the standard set. Those two questions also deal with the same topic. It would seem that that topic poses some issues with the students. It may be that the wording on the test and the vocabulary used in class do not complement each other.</p> <p>The third question had a success rate that well exceeded the standard. While also a similar topic, the question was more similar to the discussion that took place in class.</p>	<p>The last time the course was taught (Spring 2011) was also the first time it was taught; it was also team. In Spring 2012, it was taught with only one instructor. Also, the questions used for assessment were different.</p> <p>Both the exam and instruction should be reviewed to ensure that the questions found on the exam better reflect what is taught.</p> <p>The faculty are encouraged to continue instruction in the student-centered format that was used in the first offering of the class.</p>

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<p>B. Upon successful completion of the course, students should be able to discuss how empirical observations have served to change scientific ideas regarding cosmology.</p>	<p>Assessment consisted of 1 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>Of the 37 students surveyed for the final exam assessment, 73% of students correctly answered the questions regarding the SLO.</p>	<p>With 73% of the students collectively answering the questions correctly the SLO was reached with a higher expectation than expected with the amount of students who took another astronomy class previously.</p> <p>With the success of the students the conclusion is that they understand science is based on evidence and in many cases can determine which observations are needed as the evidence for a theory.</p>	<p>Faculty are encourage to continue to seek ways to improve instruction and assessment.</p> <p>The faculty are encouraged to continue instruction in the student-centered format that was used in the first offering of the class.</p>

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<p>C. Upon successful completion of the course, students should be able to demonstrate a thorough understanding of current accepted theories for the origin of the universe.</p>	<p>Assessment consisted of a set of three 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>Of the 37 students surveyed for the final exam assessment, 75% of students correctly answered the questions regarding the SLO.</p> <p>The question with the lowest correct amount had an average of 73% correctly answering the question.</p>	<p>With 75% of the students collectively answering the questions correctly the SLO was reached with a higher expectation than expected with the amount of students who took another astronomy class previously.</p> <p>The students have a well established understanding of the origin of the universe, the accepted formation theory, and the future of the universe.</p>	<p>Faculty are encourage to continue to seek ways to improve instruction and assessment.</p> <p>The faculty are encouraged to continue instruction in the student-centered format that was used in the first offering of the class.</p>