

PROGRAM SLO ASSESSMENT REPORT, SCC

Department: Mathematics Course: Math 080—Intermediate Algebra

Year: 2008 Semester: Fall

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>The portion of SLO #1, which states that students will be able to "read, define and apply.... functional vocabulary and symbols" will be assessed.</p>	<p>Three questions from the multiple-choice part of the final exam will be scored for a sample of students who take the final exam. The questions are:</p> <ol style="list-style-type: none"> 1. A tennis ball is tossed vertically upward. Its height, in feet, above the ground after t seconds is given by the function $h(t) = -16t^2 + 50t + 5$. Find the height of the ball after 2 seconds. (Question #8 on form E and #11 on form F of exam) 2. If $f(x) = \frac{4x+1}{6x-3}$, write the domain of f using interval notation. (Question #17 on form E and #20 on form F of exam) 3. Find the inverse of $f(x) = 3x - 7$. (#18 on form E and #10 on form F) <p>Each student will receive a score of 0, 1, 2, 3 corresponding to the number of problems from the above list that are answered correctly. The percent of students receiving each score will be calculated.</p> <p>A student scoring 2 or 3 will be considered successful.</p>	<p>Of the 269 students whose exams were graded, 170 students, or 63.2%, correctly answered 2 or 3 questions. Here is the breakdown:</p> <table border="1" data-bbox="1283 901 1715 1121"> <thead> <tr> <th>#correct</th> <th>students</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>22</td> <td>8.2%</td> </tr> <tr> <td>1</td> <td>77</td> <td>28.6%</td> </tr> <tr> <td>2</td> <td>95</td> <td>35.3%</td> </tr> <tr> <td>3</td> <td>75</td> <td>27.9%</td> </tr> </tbody> </table>	#correct	students	%	0	22	8.2%	1	77	28.6%	2	95	35.3%	3	75	27.9%	<p>The question most missed was the question asking students to find the formula for the inverse of a function. Fifty-two percent of student respondents missed this question. The question least missed was the question asking students to find the height of a ball at a given time. Sixteen percent of student respondents missed this question.</p> <p>The percentages from the previous semester were 3.2%, 34.4%, 40.7%, 21.7%</p>	<p>Department discussions and "brainstorming" sessions about ways to improve instruction are ongoing. I would like to see more interaction in this area between full and part-time instructors, but logistically, this has been difficult. We offer at least one hybrid (part online and part in-class) section of the course each semester, giving students more flexibility in choosing a method of instruction to best fit their needs. Students should continue to be encouraged to see their instructors during office hours and to use the Math Study Hall (this will be required in the near future for all Math 080 students).</p>
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