

COURSE SLO ASSESSMENT REPORT, SCC

Department: Mathematics Course: Math 185 Calculus II

Year: 2012 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><u>SLO 1:</u> Evaluate and approximate integrals using a variety of techniques and apply integration to solve problems involving area, volume, work, and differential equations</p> <p><u>SLO 2:</u> Represent functions using parametric equations, polar equations, and Taylor series and apply calculus techniques to these representations.</p>	<p>Analyze two problems on the final from each instructor. Since there is no department final, I chose problems with similar levels of work required.</p> <p>Rubric: 4 pts – clear, complete solution 3 pts – small mistakes not related to the concept, concept is understood 2 pts – mistakes, concept is partially understood 1 pt - some relevant work, concept not understood 0 pt – blank, no relevant work</p> <p>*A score of 3 or 4 is considered successful</p>	<p>Collected 47 exams.</p> <p><u>SLO 1:</u> % successful – 73%</p> <p><u>SLO 2:</u> % successful - 67 %</p>	<p>Differences in the type and level of difficulty of the topics varied from instructors. We need to unify the final by embedding questions.</p> <p>Success rates are not surprising for this level of student.</p> <p>Weaknesses seem to be more concentrated on Taylor series.</p>	<p>Inform department of results</p> <p>Inform instructors who are teaching Math 185 next semester to stress topics that students are weak on.</p> <p>Level and types of question seems to vary more than previous semesters. This show a need for multiple embedded questions on each exam.</p>