

COURSE SLO ASSESSMENT REPORT, SCC

Department: Mathematics Course: Math 180/180H Calculus I

Year: 2013 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> Analyze functions analytically and graphically using limits, derivatives, definite and indefinite integrals</p> <p><u>SLO 2:</u> Apply basic definitions, properties and theorems of first semester Calculus to formulate elementary proofs and model and solve problems.</p>	<p>Analyze problems from the departmental embedded questions (on following pg)</p> <p><u>SLO 1:</u> #6 (u-substitution with limits of integration)</p> <p><u>SLO 2:</u> #8 (optimization)</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 106 exams</p> <p><u>SLO 1:</u> % successful Overall – 51.9%</p> <p><u>SLO 2</u> % successful Overall – 55.7%</p>	<p>Students seem to be scoring pretty much the same from semester to semester on integration.</p> <p>There are concerns that students are not reaching a higher level of success on u-substitution integration as this is their only technique of integration before Calculus II.</p> <p>The success on certain topics seemed to be instructor specific. This shows the stress on certain concepts per instructor.</p>	<p>Inform department of results</p> <p>Inform instructors who are teaching Math 180 next semester to stress topics that students are consistently weak on.</p> <p>Department needs to discuss and reinforce the expectations of skills that students should obtain before passing Calculus I to all instructors teaching this course.</p> <p>Instructors need to stress the amount and type of acceptable work shown for full credit to unify the calculus classes.</p>