

**COURSE SLO ASSESSMENT REPORT, SCC**

Department: Mathematics Course: Math 180 Calculus I

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> 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.</p> <p><u>SLO 1:</u> #5,#9</p> <p><u>SLO 2:</u> #7, #8</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 76 exams</p> <p><u>SLO 1:</u>            % successful            #5 – 62%            #9 – 47%            Overall – 54.6%</p> <p><u>SLO 2:</u>            % successful            #7 – 78%            #8 – 63%            Overall – 70.4%</p>	<p>Students seem to be improving on concepts, however some still lack the ability to synthesis concepts.</p> <p>Students still struggle with graphical representations and applications.</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>Instructors need to stress the amount and type of acceptable work shown for full credit to unify the calculus classes.</p>