

## COURSE SLO ASSESSMENT REPORT, SCC

Department: Mathematics Course: Precalculus—Math 170

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>SLO #1</p> <p>Use algebraic, numerical, and graphical processes to manipulate and analyze equations, inequalities, and functional relationships</p>	<p>Five questions from the final exam relating to SLO #1 will be evaluated for a random sample of final exams from each course section.</p> <p>A student will be considered “successful” on a question if they showed appropriate work and were correct up to a minor computational error.</p> <p>The SLO will be met if the average success rate for all the questions is at least 70%.</p>	<p>A random sample of 12 final exams from each of five different sections held in Spring 2013 or Fall 2013 was analyzed, for a total of 60 exams.</p> <ul style="list-style-type: none"> <li>• Question 1 (domain): 60% overall rate of success.</li> <li>• Question 2 (rewrite logarithm using properties): 45% overall rate of success.</li> <li>• Question 3 (difference quotient): 65% overall rate of success.</li> <li>• Question 4 (logarithmic equation): 51.7% overall rate of success.</li> <li>• Question 5 (rational inequality): 51.7% overall rate of success.</li> </ul>	<p>None of the questions reached an aggregated 70% success rate, though there was variation among the 5 different sections. The SLO was met in two of the sections.</p> <p>There seemed to be little overall difference between the spring and fall semester classes, though there was a change in textbook.</p> <p>The SLO was met for some sections, but NOT MET overall.</p>	<p>Send these assessment results to the past and current instructors.</p> <p>Send a mid-semester reminder about covering all the material on the course reference sheet.</p>

### Sections

Question Type	A	B	C	D	E	Aggregated
Find the domain	33.3%	66.7%	66.7%	58.3%	75.0%	60.0%
Rewrite logarithm	25.0%	66.7%	25.0%	66.7%	41.7%	45.0%
Difference quotient	33.3%	83.3%	41.7%	91.7%	75.0%	65.0%
Logarithmic equation	41.7%	66.7%	41.7%	66.7%	41.7%	51.7%
Rational inequality	25.0%	100%	50.0%	66.7%	16.7%	51.7%
Average	31.7%	76.7%	45.0%	70.0%	50.0%	54.7%