

**COURSE SLO ASSESSMENT REPORT, SCC**

Department: Mathematics Course: 060 Elementary Algebra

Year: 2011 Semester: Spring

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>Evaluate and perform algebraic operations on polynomial, rational and radical expression.</p>	<p>Students were given a department final. Fourteen multiple choice questions were assessed that covered the topics of the SLO.</p> <p>The rubric was a scale of two only: 1: correct answer 0: incorrect answer</p>	<p>Finals from all 15 classes offered were assessed.</p> <p>All 328 students from the 15 classes were included in the assessment.</p>	<p>All operations of all types of equations assessed had a success rate over 70% except for two.</p> <p>1) Quadratic formula had a success rate of only 54.27%.</p> <p>2) Dividing Polynomial by a monomial 67.68%</p> <p>*)Factoring a 4-term by grouping was borderline at 70.73%</p> <p>There were two types of problems that had high success rates (&gt;90%):</p> <p>1) Solving Linear Equations 92.07%</p> <p>2)Dividing a monomial by a monomial (exponent rules) 98.48%</p>	<p>The quadratic formula is generally taught during the last week. May not be enough time for a student to “master” it by the final. We will discuss moving it up in the semester, or having it as an introduction topic only and not including it on the final.</p> <p>We are also going to change the final so that more of these operations will not be multiple choice just in case numbers are inflated due to guessing or elimination of choices.</p>

11/28/11

**Math 060 Assessment****Spring 2011 - SLO 2:** Evaluate and perform algebraic operations on polynomial, rational and radical expression.

Topic	Test #	Type	#A -169	#B-159	% Correct
POLY	A1-B4	Solve Linear equations	153	149	92.07%
	A4-B1	Subtract Polynomials	152	131	86.28%
	A5-B6	Multiply Binomials	142	134	84.15%
	A6-B5	Factor Trinomials	131	125	78.05%
	A8-B7	Factor 4-term Poly.	118	114	70.73%
	A11-B10	Evaluate polynomials	149	138	87.50%
	A15-B15	Quadratic Formula	104	74	54.27%
Rationals	A3-B3	Simplify Mono/mono	167	156	98.48%
	A9-B11	Add Rationals	134	117	76.52%
	A10-B9	Simplify poly/poly	135	133	81.71%
	A14-B13	Divide Poly/Mono	113	109	67.68%
	A17-B17	Negative Exponents	145	138	86.28%
Radicals	A19-B18	Simplify Radicals	139	120	78.96%
	A 20-B20	Subtract Radicals	142	128	82.32%