COURSE SLO ASSESSMENT REPORT, SCC

Department: Mathematics Course: 060 Elementary Algebra

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
Evaluate and perform algebraic operations on polynomial, rational and radical expression.	Students were given a department final. There were 7 free-response problems assessed that covered this SLO. The rubric was a scale from 0 - 3: **Successful** 3: Correct – appropriate algebraic setup. 2: Minor error or algebraic setup. **Unsuccessful** 1: Attempted – no appropriate algebra used. 0: Blank The SLO will be met if the average success rate for all the questions is at least 70%.	Finals from 11 of the 14 sections offered were assessed. Ten students from each of the 11 classes were randomly chosen to be included in the assessment (n=110). **Success Rates:** 1) Factoring by grouping: 71%. 2) Factoring trinomials: 66.3% 3) Factoring Difference of two squares: 86.7% 4) Multiplying Rationals: 69.4% 5)Multiplying Radicals: 76% 6)Multiplying Polynomials: 84% 7)Simplifying Radicals: 68% **Overall: 74.5%**	Our results are slightly lower from out last assessment. This may be due to the type of problems chosen (Multiple Choice vs. Free Response). Factoring and fraction skills are necessary prior knowledge when working with rationals. If we improve factoring, there is a good chance our rational success rates will improve. Radicals are generally introduced toward the end. This may be an issue with its success rates.	These results will be sent to current and past Math 60 instructors. Encourage instructors to focus on trinomial factoring and strong fraction reviews before hitting the rational sections. Discuss pacing of class to be sure teachers are not falling behind, feeling rushed or skimming the material when reaching the radical sections. Redesign the final so there are more assessable algebraic operations on polynomial, rational and radical expressions.