General Education Annual Course Assessment Form

Course Number/Title _Math 12 Number Systems_ GE Area _B4 Mathematics_______________________

Results reported for AY _2015-2016__________   # of sections _4_____ # of instructors ___3___________

Course Coordinator: _Cheryl Roddick________________ E-mail: _cheryl.roddick@sjsu.edu_____________

Department Chair: __Dr. Bem Cayco_ College: __Science________________________

Instructions: Each year, the department will prepare a brief (two page maximum) report that documents the assessment of the course during the year. This report will be electronically submitted, by the department chair, to the Office of Undergraduate Studies, with an electronic copy to the home college by September 1 of the following academic year.

Part 1

To be completed by the course coordinator:

(1) What SLO(s) were assessed for the course during the AY?

SLO 1: Mathematical concepts courses should prepare the student to use mathematical methods to solve quantitative problems, including those presented in verbal form.

(2) What were the results of the assessment of this course? What were the lessons learned from the assessment?

Students were assessed on SLO 1 by common exam questions embedded into the final exam. The following problems are representative of the types of assignments used to estimate mastery of SLO 1:

1. For the multiplication problem 24 x 31
   a. (3 pts.) Draw a picture that shows how to model the problem by using base-ten blocks and the area of a rectangle interpretation for multiplication.
   b. (3 pts.) Complete the calculation using an intermediate algorithm with four partial products. Explain the connection of the partial products to the area model in part (a).

2. Show how to find the answer to \( \frac{2}{3} \times \frac{4}{7} \) using one of the models discussed in class. Explain each step in words.
Results of Assessment

The mean score for question 1 was 77%. We found that 74% of the students tested received a C or better on this test item. The mean score for question 2 was 70%. We found that 62% of the students tested received a C or better on this test item. These results are consistent with anticipated results for the first course in the sequence of mathematics for elementary teachers. The goal over the three semesters is to deepen content knowledge, as well as to develop mathematical maturity, and these efforts are continuous throughout the three courses.

Part 2

To be completed by the department chair (with input from course coordinator as appropriate):

(3) Are all sections of the course still aligned with the area Goals, Student Learning Objectives (SLOs), Content, Support, and Assessment? If they are not, what actions are planned?

Yes, all sections of the course are still aligned with the area B4 requirements.

(4) If this course is in a GE Area with a stated enrollment limit (Areas A1, A2, A3, C2, D1, R, S, V, & Z), please indicate how oral presentations will be evaluated with larger sections (Area A1), or how practice and revisions in writing will be addressed with larger sections, particularly how students are receiving thorough feedback on the writing which accounts for the minimum word count in this GE category (Areas A2, A3, C2, D1, R, S, V, & Z) and, for the writing intensive courses (A2, A3, and Z), documentation that the students are meeting the GE SLOs for writing.

This does not apply to Math 12 in Area B4.