General Education Annual Course Assessment Form

Course Number/Title: Math 10  
GE Area: B4

Results reported for AY: 2015-2016  
# of sections: 4  
# of instructors: 4

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Department Chair: Maria (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 to <curriculum@sjsu.edu>, by the department chair, to the Office of Undergraduate Studies, with an electronic copy to the home college by October 1 of the following academic year.

Part 1

To be completed by the course coordinator:

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

SLO 2: Mathematical concepts courses should prepare the student to demonstrate the ability to use mathematics to solve real life problems.

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

Assessment data was collected from all 4 sections of Math 10 offered in AY 2016-2017.

Using embedded questions on the final exam, we found that 62.5% of the 136 students who took Math 10 performed at the C level or higher on questions related to SLO 2. This is somewhat lower than the 68% obtained in 2013-2014 when SLO 2 was last assessed. However, students enrolled in Math 10 do not generally have strong mathematical backgrounds, so it is not very surprising that they have difficulty with word problems, and it may be that the previous results are something of an outlier.

The embedded questions used for this assessment include (sample of 2 out of 4):

(Fall 2016) David, the promoter of an outdoor concert, expects a gate profit of $200,000 unless it rains, which would reduce the gate profit to $50,000. The probability of rain is 0.30. For a premium of $30,000, David can purchase insurance coverage that would pay him $200,000 in case of rain.
(a) Find the expected net profit when the insurance is purchased.
(b) Find the expected net profit when the insurance is not purchased.
(c) Based on the expected values, which is David's wiser choice in this situation?

(Spring 2017) Tom wants to deposit $20,000 into the saving account and has narrowed his choices to 3 institutions represented here. Which is the best choice?
Credit Union: 2.08% annual rate with compounded monthly
Premier Saving: 2.09% annual yield
Keys Bank: 2.07% annual rate with compounded daily

(3) What modifications to the course, or its assessment activities or schedule, are planned for the upcoming year? (If no modifications are planned, the course coordinator should indicate this.)

We will re-emphasize the importance of the course learning objectives to the instructors teaching the course. Otherwise, we do not plan to make any modifications to the course, assessment activities, or assessment schedule for Math 10.

**Part 2**

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

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

Yes, all sections of Math 10 are still aligned with the B4 area goals.

(5) 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 GELOs for writing.

N/A