General Education Annual Course Assessment Form

Course Number/Title: Math 19
GE Area: B4

Results reported for AY: 2015-2016
# of sections: 9
# of instructors: 7

Course Coordinator: Tim Hsu
E-mail: tim.hsu@sjsu.edu

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 8 of the 9 sections of Math 19 offered in AY 2016-2017.

Using embedded questions on final exams, we found that 67.9% of the 455 students in the 8 sections of Math 19 in which data was collected performed at the C level or higher on questions related to SLO 2. This is slightly better than the 65% obtained in 2013-2014 when SLO 2 was last assessed.

Two sample embedded questions used for this assessment are:

* A county landfill accepts trash at a rate of 170,000 tons per year. At the beginning of this year, it had 34,000 tons of trash.
  a) Find a linear function A that models the amount of trash in the landfill at any time t since the beginning of this year.
  b) If the landfill has a capacity of 6,000,000 tons, how long will it take to completely fill the landfill?

* Two ships leave a port at the same time. One travels at 20 mi/h in a direction N 32 degrees E, and the other travels at 28 mi/h in a direction S 42 degrees E. How far apart are the two ships after 2 h?

(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.)
No modifications to the course, assessment activities, or assessment schedule are planned for Math 19.

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 19 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