

Title III – Faculty Innovations in Learning Project Proposal
Submitted by Ilene Katz and Wayne Takakuwa

1. Title: Overcoming Algebra: Algebra I Learning Community

Purpose of the Project: To create integrated curriculum for Math 151A, Personal Development 111 (Strategies for College Success), and Math 199 (Success in Math).

Overcoming Algebra learning community incorporates the first 3 of the Math Department student learning outcomes:

1. Students should improve their attitude towards math.
2. Students should have problem solving skills at an appropriate level.
3. Students should retain information from course to course.

Both PD 111 and Math 199 have significant interactive and collaborative learning curriculum that will be linked to the Math 151A course. Student success topics like goal setting, time management, memory & learning, and learning styles will be combined with Math Success topics like stress reduction, self-esteem, specific study skills for math, overcoming math and test anxiety. Whenever possible, these topics will be related directly to the Math 151A course work. To enhance collaborative learning, Supplemental Instruction will be integrated into the learning community.

2. Project Outcomes.

- a. Integrating the curriculum so students are able to utilize the knowledge and strategies of PD 111 and Math 199 to improve their performance in Math 151A.
- b. Create an Individual Learning Portfolio format so each student can identify their specific learning style & preferences, and specific learning techniques that work best for them.

3. Assessment Strategies

- a. Comparison of attendance, retention and grades with other Math 151A classes.
- b. Development of pre- and post- course student surveys

4. Project Implementation Timetable

- a. November-December
 - i. Publicize learning community to students & counselors
 - ii. Preliminary plans for structuring

- b. December – March
 - i. Development of integrated curriculum (Math 151A, PD 111, Math 199)
 - ii. Implementation of Supplemental Instruction

 - c. March- June
 - i. Develop of Assessment methodology
 - ii. Conduct post-class survey
 - iii. Complete research comparing student performance outcomes with other Math 151A courses.

 - d. June
 - i. Complete the project summary description and the time and effort report
5. Faculty Responsible for Development and Implementation: Ilene Katz and Wayne Takakuwa
6. No Additional technology or software requirements.