Data Analysis

1. Demographics – Enrollments by gender, ethnicity, and age group for department, division, and college. 5-year trend data (fall semesters).
   a. Strengths

   The Mathematics and Statistics Department has high standards for both its faculty and students. It produces a quality education in the area of mathematics and has a sound reputation in the community. The faculty are well trained in the subject matter, come from diverse backgrounds, and have a high regard for their students.

   i. Overall enrollment in mathematics classes has increased 11.6% during this period.
   ii. African American enrollment in mathematics class has increased 38.2% during this period
   iii. Hispanic American enrollment in mathematics classes has increased 27.9% during this period
   iv. Pacific Islander enrollment in mathematics classes has increased 31.0% during this period

   b. Areas needing improvement

2. Student Success – Successful course completion rates (number of A, B, C, and Credit grades divided by all grades) for department, division, and college. 5-year trend data (fall semesters).
   a. Strengths

   This department continues a long tradition of preparing students for college transfer, specific degrees or certificates, or providing general interest mathematics education. Students that successfully complete a course are competent in the subject matter. They have demonstrated their understanding and mastery of the subject to a satisfactory level. They are prepared for the next course in their sequence of study and have a good chance of success completing that course.

   b. Areas needing improvement

   The department will continue to update and review course material, curriculum, SLOs, and teaching methodology to improve overall passing rates in its classes.

   i. Completion rates in mathematics overall have decreased from 51.4% to 45.2%
ii. Completion rates in the division overall have decreased from 51.8% to 45.6%

iii. Completion rates in the college overall have decreased from 64.1% to 63.4%

c. Follow-up items for the department’s Units Plans (if applicable)

Keeping up with the latest trends in Mathematics Education such as online, hybrid, and computer assisted instruction is a priority in the department. Attending a conference such as the CMC3 each year is highly recommended within the department to enhance our programs.

d. Anticipated Implications and Resources (budget, staffing, sabbatical, facilities and reassigned time requests; curriculum proposals) (if applicable)

As the use of technology increases and new modalities are introduced, more smart classrooms are needed to provide such service.

3. Productivity – Weekly Student Contact Hours (WSCH) divided by FTE for department, division, and college. 5-year trend data (fall semesters).
   a. Strengths
      i. Productivity rates in mathematics classes have increased 17.9% during this period.
      ii. Productivity rates in the division have increased 18.2% during this period.
      iii. Productivity rates in the college have increased 6.1% during this period.
   b. Areas needing improvement

      The lack of one central location for our Mathematics offices, classrooms and our Dean will seriously hinder our ability to grow. We currently have full time faculty offices in four locations on campus. Communication and coordination of our program have sometimes been affected.

c. Follow-up items for the department’s Units Plans (if applicable)

      One priority is to get our department centrally located so we can interact on a real time basis and provide the best possible instruction in mathematics and statistics.

d. Anticipated Implications and Resources (budget, staffing, sabbatical, facilities and reassigned time requests; curriculum proposals) (if applicable)

      Although enrollment has increased in the department, faculty voted not to request a new position until space and scheduling concerns are evaluated.

4. Enrollment – Weekly Student Contact Hours (WSCH) for department, division, and college. 5-year trend data (fall semesters).
   a. Strengths
      i. WSCH in mathematics classes has increased 30.7% during this period.
      ii. WSCH in the division has increased 30.5% during this period.
iii. WSCH in the college has increased 23.1% during this period.

There has been a large demand for classes in the Mathematics and Statistics Department and there will continue to be a large demand in the future.

b. Areas needing improvement

Communication, coordination and consistency can be a problem with the large number of faculty needed to service a growing student population.

c. Follow-up items for the department’s Units Plans (if applicable)

With enrollment increasing, developing an online repository for sharing handouts, syllabi, etc between full and part-time faculty will keep our classes consistent and ensure quality of instruction.

d. Anticipated Implications and Resources (budget, staffing, sabbatical, facilities and reassigned time requests; curriculum proposals) (if applicable)

Requesting reassignment time for a faculty member to coordinate and facilitate our computer needs to fit with the newly developing Web 2.0 may be needed.

__________________________________________  May 29, 2009
Jesus Martinez
Department Chair  Date

__________________________________________  June 1, 2009
Anne Licciardi  Date
Division Dean