LOS MEDANOS COLLEGE

Narrative: Associate in Science in Mathematics for Transfer

**Criteria A. Appropriateness to Mission**

1. Statement of Program Goals and Objectives.

This proposal is to substantially change the current Associate of Science: Mathematics Degree into an Associate in Science in Mathematics for Transfer. This degree meets the lower division requirements for students pursuing a baccalaureate degree in Mathematics at the California State University System. This degree is consistent with the agreed upon C-ID.net curriculum model and meets the requirements of SB1440 and assists students in seamlessly transferring to a CSU. The Program Level SLOs for this degree are:

* Preparation and Mathematical Maturity: Be prepared for the mathematical or statistical reasoning required in upper division work in their major, including the ability to generalize mathematical concepts and comprehend increasing levels of mathematical abstraction.
* Mathematical Literacy: Communicate using mathematics

1. Read with comprehension documents having mathematical content and participate cogently in discussions involving mathematics;
2. Clearly articulate mathematical information accurately and effectively, using a form, structure and style that suit the purpose (including written and face-to-face presentation).

* Problem-solving ability:

1. Reason with and apply mathematical concepts, principles and methods to solve problems or analyze scenarios in real-world contexts relevant to their major;
2. Use technology effectively to analyze situations and solve problems;
3. Estimate and check answers to mathematical problems in order to determine reasonableness, identify alternatives, and select optimal results.

* Modeling ability:

1. Construct and interpret mathematical models using numerical, graphical, symbolic and verbal representations with the help of technology where appropriate in order to draw conclusions or make predictions.
2. Recognize and describe the limits of mathematical and statistical models.

* Effective Learning skills:

1. Independently acquire further mathematical knowledge without guidance, take responsibility for their own learning, determine appropriateness and correctness of their own work and function effectively in different learning environments.
2. Succeed in different learning environments, particularly in a group setting of working collaboratively with others.
3. Catalog Description.

The Associate in Science for Transfer– Mathematics at Los Medanos College prepares students to transfer into a curriculum at a 4 year institution to pursue a baccalaureate degree in Mathematics. To achieve the degree students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   1. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
   2. A minimum of 18 semester units in the Mathematics major, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.