<u>Title</u>: Mathematics Pathways Success Initiative: Helping Students Succeed in Math Courses

Institution: Auburn University at Montgomery

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The overall goals of AUM's QEP are:

<u>Goal 1</u>: Decrease the DFW rates in all developmental math courses and core math courses to below 20%;

<u>Goal 2</u>: Decrease the number of students enrolled in remedial mathematics courses to 25% or less of first-time students;

Goal 3: Increase the retention rate of all remedial math students to at least 50%.

The Student Learning Outcomes (SLOs) are:

<u>SLO1</u>: Students completing the remedial mathematics program will succeed in a core mathematics course;

<u>SLO2</u>: Students enrolled in mathematics courses will be able to demonstrate an increase in math skills;

<u>SLO3</u>: Student anxiety relating to mathematics will be minimized.

AUM has DFW rates well above 30% in its developmental and core math courses, and AUM retains just 34% of its remedial students. The QEP is designed to address these issues and help students, at higher rates, become competent in college-level mathematics. To achieve these goals, AUM plans to implement the innovative Dana Center Math Pathways model for developmental and core math success. The model has been successfully implemented in several states including Texas, Oklahoma, Washington, Missouri, and Ohio. The proposed model – whose key component will be McGraw-Hill Education's ALEKS diagnostic tool – will assess students' math background and need for remediation prior to students enrolling in mathematics courses. This non-course based option (NCBO) implements sophisticated, assessment-based, individualized training modules and one-on-one tutoring that will allow students to quickly pre-remediate their math skills so that they can be placed into core math courses. In particular, these NCBOs will allow for students to focus only on certain areas where remediation is needed. They will be tailored to students' needs, which is preferable to asking students to sit through an entire semester of remediation when they might only need a few weeks' worth of skills taught to them in order to be successful at the next level.