



TEXAS A&M
INTERNATIONAL UNIVERSITY

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Mathematics Enrichment Project (MEP) 2009-2010 Academic Year

This project offers a pre-freshman camp for incoming Hispanic and other minority students to help them make connections between mathematics and science to encourage success in freshman chemistry and physics courses, to develop more sophisticated understanding of their own study skills and strengths, and to develop learning communities of peers.

A series of enrichment sessions (one week-long) are being planned. The first session will be conducted from January 11 to 15, 2010 before the beginning of the spring semester at TAMIU. Another week-long session is planned for summer 2010 from August 9 to 13, 2010.

This project will expose students to adequate mathematics foundation and will emphasize basic skills, critical thinking and problem solving capabilities required to be successful in college courses.



Benefits to students:

- Participants receive free software, education materials, and supplies
- Sessions are conducted by experienced TAMIU mathematics faculty
- Each workshop participant receives up to \$300.00 to cover their daily expenses
- Participants are provided with academic advising and tutoring throughout the sessions
- Sessions help participants succeed in freshman level mathematics courses at TAMIU
- Participants gain experience working in groups

For more information about this project, please contact one of the following individuals:

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Texas A&M International University, Department of Engineering, Mathematics, and Physics
This project is partially supported by a grant from the U.S. Department of Education, STEM-RRG. More information about this grant may be found at <http://www.tamiu.edu/~rbachnak/STEMRRG/index3.html>



Tentative Daily Session Schedule:

January 11 to 15, 2010/August 9 to 13, 2010, from 9:00 am to 4:00 pm each day
(20 Students, \$300.00 each per week)

Time	Activity	Facilitator
9:00 am – 10:25 am	Algebra I: Lesson/Activity	Dr. Rohitha Goonatilake
10:25 am – 10:35 am	Break	
10:35 am – 12:00 noon	Algebra II: Lesson/Activity	Dr. Eduardo Chappa
12:00 noon – 1:00 pm	Lunch on your own	
1:00 pm – 4:00 pm	ALEKS Tutorials	Drs. Chappa and Goonatilake

Important Dates:

- Registration: January 11/August 9, 2010
- Presentation of Participants' Experience: January 15/August 13, 2010
- Award of Certificates: January 15/August 13, 2010

Topics for Algebra I: Lesson*/Activity:

Basic Algebraic Operations
Day 1: Algebra and Real Numbers
Day 2: Exponents and radicals
Day 3: Polynomials: Basic Operations
Day 4: Polynomials: Factoring
Day 5: Rational Expressions: Basic Operations

Topics for Algebra II: Lesson*/Activity:

Equations, Inequalities and Graphs
Day 1: Linear Equations and Applications
Day 2: Linear Inequalities
Day 3: Quadratic Equations and Applications
Day 4: Cartesian Systems and Equation of a Line
Day 5: Distance, Mid Point and the equation of a Circumference

Topics for ALEKS Mathematics Tutorials:

Learning with ALEKS
Day 1: Registration, Introduction, Initial Assessment and Learning Mode
Day 2-4: Learning Mode and Assessment
Day 5: Final Assessment

*At the end of each lesson, there will be a problem solving session.

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