



TEXAS A&M
INTERNATIONAL UNIVERSITY

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Mathematics Enrichment Project (MEP) 2010-2011 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 10 to 14, 2011 before the beginning of the spring semester at TAMIU. Another week-long session is planned for summer 2011 from August 8 to 12, 2011.

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: August 8 to 12, 2011, from 9:00 am to 4:00 pm each day

Time	Format	Facilitators
Monday: 9:00 am - 9:15 pm 9:15 am - 12:00 pm	Welcome/introductions ALEKS registration and initial assessment	Drs. Bachnak, Goonatilake, and Chappa
Tuesday through Friday: 9:00 am - 11:00 am	ALEKS assessment	Dr. Chappa, Profs. Morales, San Miguel, and Proa
Tuesday through Friday: 10:00 am - 12:00 pm	ALEKS tutorial	Dr. Chappa, Profs. Morales, San Miguel, and Proa
Monday through Friday: 12:00 pm - 1:00 pm	Lunch Break	On your own
Monday through Friday: 1:00 pm - 2:00 pm	Algebra I: Lessons & Activities	Dr. Chappa and Prof. Pinzon
Monday through Friday: 2:00 pm - 3:00 pm	Algebra II: Lessons & Activities	Profs. San Miguel and Proa
Monday through Thursday: 3:00 pm - 4:00 pm	ALEKS tutorial	Dr. Chappa, Profs. Morales, San Miguel, and Proa
Friday: 3:00 pm - 4:00 pm	Closing ceremony Feedback & award of certificates	Drs. Bachnak, Goonatilake, and Chappa

Important Dates:

- Registration: Monday, August 8, 2011
- Closing ceremony: Feedback & award of certificates: Friday, August 12, 2011

Topics for Algebra I: Lesson*/Activity:

Basic Algebraic Operations
Algebra and Real Numbers
Exponents and radicals
Polynomials: Basic Operations

Polynomials: Factoring

Rational Expressions: Basic Operations

Topics for Algebra II: Lesson*/Activity:

Equations, Inequalities and Graphs
Linear Equations and Applications
Linear Inequalities
Quadratic Equations and Applications
Cartesian Systems and Equation of a Line
Distance, Mid-Point and the equation of a Circumference

Topics for ALEKS Mathematics Tutorials:

Learning with ALEKS
Registration, Introduction, Initial Assessment and Learning Mode
Learning Mode and Assessment
Final Assessment

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

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