













The Center for Mathematics and Quantitative Education at Dartmouth

Curriculum with Statistical Applications (about a dozen)

- "Exercises in Data Analysis"
- Chance Database
- "Railways and Population Change in Industrializing England"
- "Factors Related to Wages in the Current Population Survey"
- "Introduction to Data Analysis: The Rules of Evidence"
- "Applets for Teaching Statistics"
- "Essay Writing for ESL Students"

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Past, Present & Future of 2000-2004 MAC 2005-2009 MAC³ AMATYC 6 August 2006 2006HartzlerRheinlanderASA6up.

MAC became MAC³ in May, 2005

- Directors
 - Christie Gilliland PI Green River Community College
 - Deann Leoni Co-PI Edmonds Community College
 - Rebecca Hartzler Co-PI Seattle Central Community College
 - Patrick Bibby Co-PI Miami Dade College
 - Ruth Collins Co-PI Delaware Technical and Community College

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MAC³ Activities

- Curriculum Development Institutes
 - Summer Institutes in Washington (August 1-4, 2006, August 6-10, 2007)
 - Winter Institutes in Florida (January 12-15, 2007 in Miami, (Application Deadline is October 16, 2006)
- Presentations at Affiliate Meetings
- Project Information, Draft Curriculum and Faculty Resources at www.mac3.amatyc.org
- Traveling Workshops

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MAC³ projects can be large or small

- Projects within a Course
- Learning Communities
- Department Wide Projects
- Institution Wide Projects

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Projects within a course

Single projects to enhance the mathematics & quantitative literacy

Examples for last week:

- Wake Technical Community College
 - Statistics & comparisons in psychology surveys
- Western New Mexico University
 - Data, Graphing & Mathematical Modeling in geology &

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Data, Graphs & Equations Across The Curriculum Western New Markor (Sprend) May Dense, Caread Gorden J. Marchael College Ageler Freight Descriptions fail 2006

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Wake Technical Community College



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Learning Communities

Math & History in Popular Culture (Humanities 102) Numeracy, descriptive statistics, graphing of trends





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Institution-wide project

- Miami Dade College's QEP Project
 - As part of accreditation Miami Dade College has instituted a college-wide MAC^3 project which involves all campuses.
 - Miami Dade began their project by assessing what types of MAC^3 projects would best fit their institutional structure and student needs.
 - Current projects include learning communities in art, art history, computer science, ESL, music, nursing, basic reading, study skills and writing

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www.mac3.amatyc.org/projects (Draft materials)

Anthropology	Health
Art	Labor Studies
Art History	Marketing
Biology	Mathematics
Business	Music
Chemistry	Nursing
Computer Information Systems	Physics
Computer Science	Policy Studies
Developmental Math & Study Skills	Political Science
Economics	Social Services
English	Spanish
Environmental Science	Special Education
Ethnic Studies	Statistics & Data Analysis
Ethnomathematics	Urban Planning

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Evaluation

- Pre/Post Institute Questionnaires
- Post Institute Focus Groups
- Pre Faculty Surveys & Post Faculty Phone Interviews
- Pre/Post Student Attitude and Content Surveys

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Impact on Students

Pre/Post Survey

- Confidence
- Interest
- Math Awareness
- Interdisciplinary Learning
- Concept of Math

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MAC³ Institutes

(The application deadline for Winter January12-15, 2007 is October 16, 2006.)

- The institute provides the needed time and assistance for faculty to create projects and assessments for their classroom.
- Participants may choose to create any size of curriculum, from one-day modules to entirely new courses that combine mathematics / quantitative reasoning and other disciplines.
- Participants are strongly encouraged to attend in interdisciplinary teams.
- The registration fee is \$100 (payable upon acceptance) and includes food and lodging (triple occupancy) for four days and three nights.
- Participants will receive a \$60/day stipend to develop curriculum during the four-day institute.

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www.mac3.amatyc.org

See you soon!





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