






**MAC & QL: MANY STRATEGIES
FOR YOUR CONSIDERATION**

Frederick Reese & Klement Teixeira – Borough of
Manhattan Community College
Neil Lutsky – Carleton College
Caren Diefenderfer – Hollins University
Rebecca T. Hartzler & Deann Leoni – MAC³





**INTEGRATING MATH INTO
OTHER DISCIPLINES – MAC³**



Rebecca Hartzler – Seattle Central CC
Deann Leoni – Edmonds CC






MAC³ supports faculty of all disciplines in creating
curriculum that enhances the mathematical or quantitative
literacy dimensions in their courses.






As a result, community college students throughout
the nation will be offered opportunities to deepen
and reinforce the mathematics they have learned in
their math classes, apply it in context, and
understand its greater importance and application in
their lives.



- o AMATYC is the lead institution.
 - Edmonds CC
 - Seattle Central CC
 - Miami Dade College
- o DE supported our first year.
- o NSF will support all four years.



GETTING STARTED WEBSITES




- o Beyond Crossroads – LIVE
QL Electronic Resources
<http://www.beyondcrossroads.com/QLindex.html>

NATIONAL PROJECTS

<p>Mathematics Across the Community College Curriculum www.mac3.amatyc.org <i>Supports college faculty of all disciplines in creating quantitative literacy curriculum using institutes and traveling workshops</i></p> 	<p>National Numeracy Network www.math.dartmouth.edu/~nny <i>Supports a network of persons working in quantitative literacy with meetings, newsletters and coming soon... a peer reviewed e-journal</i></p> 
<p>Special Interest Group of the MAA Quantitative Literacy www.members.maa.org/sig/qll <i>Supports mathematics faculty working in quantitative literacy with newsletters, publications and presentation opportunities</i></p> 	<p>The Center for Mathematics and Quantitative Education at Dartmouth www.math.dartmouth.edu/~mqed/ <i>A collection of materials suitable for teaching quantitative literacy across all disciplines and levels</i></p> 

EXAMPLES OF MAC³ PROJECTS

WHAT CAN MAC LOOK LIKE?



- o **Think SHORT:**
 - A project or module within an existing course that emphasizes the use of mathematical or quantitative reasoning.
 - A small (+1 or 2 math credit) coordinated studies course where you and your math mentor teach math associated with one aspect of the course.
- o **Examples of small projects:**
 - Payroll Accounting – Columbia College
 - Art (Ceramics) – Green River Community College
 - EAP: Composition for College & Math credit

ART: CERAMICS GREEN RIVER COMMUNITY COLLEGE

- o Started as a non-credit integration when they developed ceramics projects in Geometry course for future teachers
 - Ceramic vase project
 - Tiles




ART: CERAMICS GREEN RIVER COMMUNITY COLLEGE

- o Combined Ceramics & 1 CR Math – Fall 2006
 - **Measurement activities**
 - **Ratio/proportion**
 - Scavenger hunt
 - Symmetry patterns
 - Ethnomathematics
 - Unique surfaces



ART: CERAMICS



GREEN RIVER COMMUNITY COLLEGE




- Combined Ceramics & 1 CR Math – Fall 2006
 - Measurement activities
 - Ratio/proportion
 - **Scavenger hunt**
 - **Symmetry patterns**
 - Ethnomathematics
 - Unique surfaces




WHAT CAN MAC LOOK LIKE?







- **Think TALL:**
 - A course which integrates mathematical or quantitative reasoning throughout.
 - A coordinated studies course that integrates mathematics or quantitative reasoning
 - A course that includes a service-learning component doing quantitative work
- **Examples of BIG projects**
 - LEAF school – Edmonds Community College
 - Going with the Flow – Central Wyoming College
 - Space on Earth - North Essex Community College



ANTHROPOLOGY – MAC³ AND SERVICE LEARNING

EDMONDS COMMUNITY COLLEGE






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- Learn-n-serve Environmental Anthropology Field (LEAF) School
 - AmeriCorps scholarship, 15 credits in Human Ecology

ANTHROPOLOGY – MAC³ AND SERVICE LEARNING

EDMONDS COMMUNITY COLLEGE






WHAT CAN MAC LOOK LIKE?





- **Think GRANDE!**
 - An institution-wide initiative (Accreditation, QEP, Assessment project)
 - A NSF-grant-funded project
- **Examples of REALLY BIG projects**
 - Edmonds CC
 - Miami Dade College
 - Spokane Falls CC
 - Middlesex CC
 - See *Current Practices* book by MAA





WEB LINKS

- MAC³ Projects and Courses
 - <http://www.mac3.amatyc.org/projects.htm>
- Dartmouth College Electronic Bookshelf
 - <http://www.math.dartmouth.edu/~mac/eBookshelf/>
- Social Science Data Analysis Network
 - <http://www.ssdan.net/chip/exercises.shtml>



Traveling Workshops

Bringing Ideas to you

MAC³ Traveling Workshops

- Customized Workshops that can come to your College or Affiliate Meeting
- Eight MAC³ Traveling Workshop Facilitators
- MAC³ TW Director
 - Deann Leoni – dleoni@edcc.edu
- TW Coordinator
 - Pat Averbeck - tw@amatyc.org

2008 WINTER INSTITUTE – FLORIDA

(THE APPLICATION DEADLINE FOR 2008 WINTER INSTITUTE IS NOVEMBER 5.)



2008 SUMMER INSTITUTE – Massachusetts


(THE APPLICATION DEADLINE FOR 2008 SUMMER INSTITUTE IS NOVEMBER 5.)

June 15-18, 2008

Contact Carol Hay - hayc@middlesex.mass.edu



Lowell Campus



YOUR TURN

- Handout in folder (lavender)
- Brainstorm now for 5-10 minutes
- Questions to think about how and where you could infuse some mathematics into other disciplines at your institution
- What disciplines? What level? What support?