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Math 1113 Precalculus Emporium: A Multi-Institutional Online Pre-Calculus Course

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USG Initiatives

Complete College Georgia

New Learning Models
A Critical Need – MATH 1113 Precalculus

37.7%
Do Not Succeed

USG 2013 System average percentage of D, F, W and WF (excluding Not Posted)
A Promising Approach: The Emporium Model

“While not effortless, the [emporium model] is as close to a silver bullet as one can get in the complex world of teaching and learning.”

(The Math Emporium: Higher Education’s Silver Bullet, Twigg, 2011)
Emporium Success Factors

• Require active learning. Emphasis on doing as opposed to listening to how to do math.
• Ensure sufficient time on task. Math activity is required (lab hours/exercises).
• Build in ongoing assessment and prompt (automated) feedback.
• Monitor student progress and intervene when necessary.
• Provide one-on-one, on-demand assistance from highly trained personnel.
"The virtual classroom is a space, a territory, where learning can happen."

USG Virtual Emporium
Online Precalculus Course Project

Institutional Partners

Georgia State University
Georgia Perimeter College
Middle Georgia State College
University of Georgia
Valdosta State University

Georgia Tech
  Coursera Development
  Accessibility Guidance
  Project Evaluation
Timeline & Goals

Timeline:
• Develop Course in Fall 2013
• Offer Pilot Course in Spring 2014

Goals:
• Up to 300 Students from 5 Institutions
• Evaluate Impact of the Model
• Continue to Improve the Model
• Scale to More Institutions
• Modify Teaching Support Model
Who Are the Instructors?

Allison Arnold, UGA

Peggy Moch, VSU

Sutandra Sarkar, GSU

Sharon Evans, GPC

Barry Monk, MGSC

Kevin Yeomans, GPC
What Are the Platforms?

- Coursera
- ProctorU
- Smarthinking
- WebAssign
Student Perceptions/Feedback

• Helpfulness, Timeliness of Instructors
• Discussion Forums and Study Halls as Positive to Learning Outcomes
• Technology of Less Concern than Instructional Materials
• Interest in More Video Content and Direct Instruction
Next Steps

• Review Evaluative Data
• Refine Course (Platforms and Materials)
• Expand Number of Participating Institutions and Continue to Pilot in Fall 2014
• Address Faculty Load & Responsibilities
• Develop Long-Term Business Model
Questions?

For More Information, Contact:
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