

CURRICULUM VITAE

MARY ALICE SMEAL
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EDUCATION

Ph.D., Mathematics Education, Auburn University, December 2008

M.A. Ed., Mathematics Education, University of North Alabama, May 1996

B.S., Applied Piano, Lipscomb University, December 1979
Magna Cum Laude

TEACHING AND EDUCATIONAL EXPERIENCE

Name of University, Alabama State University August 2008 to Present

Associate Professor, Mathematics

- Taught Finite Mathematics
- Committee participation including work on university-wide committee to develop the implementation of the QEP in all courses
- Acted as advisor for the SAI fraternity (Women's music fraternity)
- Currently, working with a group of STEM faculty to develop a Saturday seminar for secondary students that would promote exposure to scientific research and hands-on learning for primarily minority students in the surrounding Black Belt region—first seminar is April 25, 2015
- Analyzed SACS data (pretest, posttest, survey) for all Finite Mathematics classes semiannually; maintained Weave Online website for Finite portion of the Mathematics Department (this is our reporting avenue for SACS)

Name of University, Amridge University (Adjunct) May 2012 to Present

Associate Professor, Mathematics

- Taught General Mathematics, Introduction to College Algebra, College Algebra with Trigonometry, Survey of Mathematics, Finite Mathematics (all courses online)
- Developed curricula for all courses, revamped mathematics offerings so that they were equitable with traditional universities
- Developed the syllabus to meet accreditation standards

Name of University, Auburn University August 2008 to Present
Graduate Assistant, Mathematics Education

- Supervised student interns during their student teaching at surrounding high schools
- Taught *Technology in Mathematics Education (CTSE 4040/5040)*
- Presented at TEAM-Math * two-week summer institute and quarterly meeting
- TEAM-Math Liaison to school liaison to systems in K-12 schools in three counties
- Collated and Analyzed data from Schools involved in the TEAM-Math NSF project

*TEAM-Math is an acronym for Transforming East Alabama Mathematics and represents NSF-sponsored systemic project that services 15 school districts in East Alabama

RESEARCH EXPERIENCE

Alabama State University, Montgomery, AL 2013 to 2015
Position, Principal investigator

Current Research project: *Incorporating Social interaction, Technology, Engagement, and Success (STEPS) to promote success in college mathematics*

Alabama State University, Montgomery, AL 2009 to 2013
Position, Principal investigator

Research project: *Exploring the effectiveness of different approaches to teaching finite mathematics.*

Dissertation, Auburn University, Auburn, AL 2008
Advisor: Dr. Marilyn Strutchens

Thesis Title: *Exploring Beliefs and Practices of Teachers of Secondary Mathematics Who Participated in a Standards-Based Preservice Education*

PUBLICATIONS

Books

Smeal, M. (2009). *Exploring Beliefs and Practices of Teachers of Secondary Mathematics who Participated in a Standards-Based Preservice Education*. Koln, Germany: Lambert Academic Publishing.

Journal Publications

Smeal, M. (2015). STEPS: A success story in college mathematics. *Primus: Problems, Resources, and Issues in Mathematics Undergraduate Education* (submitted for Review in AMS draft format).

Smeal, M., Walker, S., Carter, J., Simmons-Johnson, C., & Balam, E. (2013). Exploring the effectiveness of different approaches to teaching finite mathematics. *Journal of Computers in Mathematics and Science Teaching*, 32(2), 247-257. (Peer reviewed.)

Papers Presented at Professional Conferences

Smeal, M., Walker, S., Carter, J., Simmons-Johnson, C., & Balam, E. (2010). *Exploring the effectiveness of different approaches to teaching finite mathematics*. Proceedings of the 6th Annual TEAM-Math Conference Research Pre-session, 118-141. (Peer reviewed.)

Smeal, M. (2008). *Exploring Beliefs and Practices of Teachers of Secondary Mathematics who Participated in a Standards-Based Preservice Education*. Proceeding of the 5th Annual TEAM-Math Conference Research Pre-session, 7-18. (Peer reviewed.)

PRESENTATIONS AND INVITED LECTURES

National Conferences:

National Council of Teachers of Mathematics National Research Pre-session, Washington, D.C., April 2009. (“Good Teaching’ for Whom and Why?”)

National Council of Teachers of Mathematics Annual Meeting, Washington, D.C., April, 2009. (“Toma Todo and Other Games: Connecting Probability with Cultures around the World”)

Regional Conferences:

Alabama Association for Developmental Education 26th Annual Conference, Montgomery, AL, November, 2012. (“Engaging Activities in Mathematics”)

Association for Developmental Education 25th Annual Conference, Montgomery, AL, November, 2011. (“Activities for the Finite Mathematics Classroom”)

Alabama Council of Teachers of Mathematics Fall Forum, Montgomery, AL, October, 2011. (“Engaging Epad Activities”)

Alabama Association for Developmental Education 24th Annual Conference, Tuscaloosa, AL, November, 2010. (“Incorporating Quantitative Literacy in a Qualitative Enhancement Program”)

Alabama Council of Teachers of Mathematics Fall Forum, Montgomery, AL, October, 2010. (“Exploring the Effectiveness of Different Approaches to Teaching Finite Mathematics”)

Alabama Association for Developmental Education 23rd Annual Conference, Birmingham, AL, November, 2009. (“Exploring the Effectiveness of Different Approaches to Teaching Finite Mathematics”)

TEAM-Math Partnership Annual Conference Research Pre-Session, Tuskegee, AL, September, 2009. (“Exploring the Effectiveness of Different Approaches to Teaching Finite Mathematics”)

Alabama Council of Teachers of Mathematics Fall Forum, Montgomery, AL, October, 2008.
("Connecting Probability and Games of Cultures from Around the World")

TEAM-Math Partnership Annual Conference Research Pre-Session, Tuskegee, AL,
August, 2008. ("Exploring Beliefs and Practices of Teachers of Secondary Mathematics
who Participated in a Standards-Based Preservice Education")

East Alabama Council of Teachers of Mathematics Annual Conference, Auburn, AL,
April 2008. ("Using Diverse Cultures to Explore Probability")

East Alabama Council of Teachers of Mathematics Annual Conference, Auburn, AL,
April 2007. ("It's About Time")

PROFESSIONAL TRAINING

Online Teaching Certification, Alabama State University, 2012

Description: A course designed to improve online teaching techniques and to learn to use
available resources for online learning.

PROFESSIONAL MEMBERSHIPS

National Council of Teachers of Mathematics, 2001-Present

National Association for Developmental Education, 2010 to 2013

Alabama Association for Developmental Education,
Treasurer (2009-2013)

Alabama Council of Teacher of Mathematics, 2008 to present

PROFESSIONAL SERVICE

Peer-Reviewed Articles for:

- AACE (2012-present)

COMMUNITY SERVICE

Montgomery Chorale

The city vocal organization that performs twice a year for the community will perform
Brahms Requiem for the spring concert.

University Church of Christ

Active membership includes teaching classes, working with Hispanic congregation, etc.,
Member since 2005

New Life Behavior

Present life lessons (religiously oriented) at Montgomery Women's Facility, 2009 - Present

Hope Inspired Ministries

Tutor individuals who did not complete high school. The mission of Hope Inspired Ministries is to pass the GED and assist young men and women in becoming independent citizens.

Southampton Board of Education

Elected to the Board of Education and served as a member 1991-1994.