

CURRICULUM VITAE

MARY ALICE SMEAL

Education

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

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

B.S. Mathematics, University of North Alabama (completed requirements to satisfy additional major in mathematics)

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

Teaching and Educational Experience

University of Alabama in Huntsville

August 2015 to present

Lecturer, Mathematics

- Taught new courses MA120, MA244, and MA281 (2019)
- Member of curriculum committee (2019 to present)
- Transitioned all courses from face-to-face to online March, 2020 to present
- Member of both Lecturer Search Committees (2020)
- Gathered research information and completed Assessment Report for the Mathematics Department (2019 – 2020)
- Coordinator for MA107, MA110, and MA112, May, 2017 to present
- Developed the online version of MA107, MA112, and MA281
- Developed a version of MA112 (per OER grant) using OER free textbooks (Open Educational Resources)
- Presented my experience teaching using OER materials to faculty on OER Workshop, March 29, 2019
- Taught new courses MA113 (2018)
- Taught six classes (plus one in summer) and coordinated 20 sections of lower level courses
- Served as academic advisor for mathematics majors
- Completed the QEPO certification course, August, 2017
- Attended 2018 Annual AACTM Conference
- Member of committee to explore patterns of unsuccessful students
- Volunteered as judge for Alabama Science and Engineering Fair at UAH
- Taught Finite Mathematics in preparation for becoming a coordinator
- Attended presentation of potential new course March 2017
- Proctored AACTM High School Math Competition 2016-17, 2019
- Attended the Scholars Institute (on campus) May, 2016

Alabama State University

August 2008 to July 2015

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)
- Worked 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

Amridge University May 2012 to May 2015

Adjunct 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

Auburn University May 2006 to August 2008

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

University of Alabama in Huntsville, Huntsville, AL 2018-19

Position, Investigator (Researching teaching methods)

Grant Research project: *ACHE/ACCS OER Grant Program for development of OER (Open Educational Resources, Alabama Commission on Higher Education)*

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

QEPO Certification, University of Alabama in Huntsville, 2017

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

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

Huntsville Inner City Learning Center (2016 to present)

The Huntsville Inner City Learning Center services approximately 100 inner city children Monday through Thursday afternoons and a summer program. Tutor for the sixth grade students and aid in serving dinner weekly. Work as instructor in tennis once a week during summer program.

Jobs for Life (2017 to present)

The Jobs for Life program is a 8-week course that helps unemployed and underemployed individuals prepare for the work force by practicing interview skills, developing resumes, making connections with appropriate businesses, etc. Served as a mentor and also as an instructor for the classes.

Montgomery Chorale (2014-15)

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

University Church of Christ (2005-2015)

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 - 2015

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. (2014-2015)

Southampton Board of Education

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