

**CURRICULUM VITA**  
**SHARON E. TAYLOR**  
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**EDUCATION**

- 6/90 - 5/93 Texas A & M University, Doctor of Philosophy, Mathematics Education
- 9/87 - 8/89 Sam Houston State University, Master of Arts, Mathematics
- 9/85 - 8/87 Southwest Texas State University, Bachelor of Science in Education, Mathematics

**POSITIONS HELD**

- 9/96 - present *Georgia Southern University, Statesboro, GA*  
Assistant (1996-2002), Associate (2002-2008), and Professor (2008–present),  
Mathematics, Department of Mathematical Sciences – Interim Chair (2012-present)  
Tenured (2000) position which includes teaching content and mathematics education  
courses at the undergraduate and graduate levels. Other duties include providing in-  
service teacher training and coordinating mathematics education content courses with  
the College of Education methods courses.
- Interim Chair duties have included supervising scheduling, budget, assessment, and  
hiring; conducting monthly department meetings and annual evaluations; representing  
the department at COSM Council and other university functions as well as on the  
statewide Academic Committee for Mathematical Subjects (ACMS); working with  
other colleges on curriculum issues such as new courses, teacher certification, and  
transfer equivalencies; handling student complaints; and submitting department  
annual report and other documentation required by the University.
- 9/93 - 6/96 *Montclair State University, Upper Montclair, NJ*  
Assistant Professor, Mathematics, Department of Mathematics and Computer Science  
Tenure-track appointment which included teaching content and mathematics  
education courses. Other primary duty consisted of supervising student teachers.  
Additional duties included working with other department members on state and  
nationally funded grant projects involving teacher training.
- 9/92 - 8/93 *Sam Houston State University, Huntsville, Texas*  
Administrative Assistant for one Department of Education and two Texas Higher  
Education Coordinating Board teacher training grants.
- 9/90 - 5/92 *Sam Houston State University, Huntsville, Texas*  
Lecturer, Mathematics, Division of Mathematical and Information Sciences  
Temporary appointment that consisted of teaching mathematics education, statistics  
and developmental mathematics courses.
- 9/89 - 8/90 *San Antonio College, San Antonio, Texas*  
Instructor, Mathematics, Department of Mathematics  
Tenure-track position that included teaching courses ranging from developmental  
mathematics to business calculus.

**TEACHING**

Courses Taught at GSU

MATH 1111 College Algebra  
 MATH 1113 Pre-Calculus (formerly Trigonometry)  
 MATH 1441 Calculus I  
 MATH 2008 Foundations of Numbers and Operations (formerly MATH 2031)  
 MATH 2010 Problem Solving for K-8 Teachers  
 MATH 3032 Foundations of Data and Geometry  
 MATH 3130 College Geometry  
 MATH 5130 Statistics and Probability for K-8 Teachers  
 MATH 5131 Basic Ideas of Arithmetic  
 MATH 5132 Basic Ideas of Geometry  
 MATH 5134 Discrete Mathematics for K-8 Teachers  
 MATH 5135 Algebraic Connections for K-8 Teachers  
 MATH 5232 Mathematical Applications Using Technology  
 MATH 6130 Fundamental Concepts of Arithmetic and Geometry  
 MATH 6230 Fundamental Ideas of Calculus  
 MATH 6030 Special Topics (formerly MATH 890)  
                     Manipulatives, Technology, and Real World Applications  
                     Algebra and Statistics for Middle School Teachers  
 STAT 2231 Introduction to Statistics

MATH 1111, MATH 1441, MATH 3032, MATH 5130, MATH 5134, MATH 5135 and the two Special Topics courses have been taught via distance learning.

Independent Study and Student Research

Supervised independent study for eight students since Fall 1996.

Served on the dissertation committees of Billy Lacefield, Cherry Ward, Donna Saye, Elizabeth Oliver, Debbie Evans, Patia Crump, Lisa Norton Howell, Elizabeth Brechin, Kay Haugen, and Cristal Jones, students from the College of Education. Each completed an Ed.D in Curriculum Studies. (Fall 1999 to present)

**PUBLICATIONS**Textbook

Lanier, S. M. & Taylor, S. E. (2004). *When will I ever teach this? An activities manual for mathematics for elementary teachers*. Addison-Wesley, Boston, MA.  
 Mason, D., Mittag, K. C. & Taylor, S. E. (2003). *Integrating mathematics, science, and technology: A skill-building approach*. Allyn & Bacon, Boston, MA.

Refereed Journals

Zientek, L. R., Younes, R., Nimon, K., Mittag, K. C., & Taylor, S. E. (2013). Fractions as a foundation for algebra within a sample of prospective teachers. *Research in the Schools*, 20, 1, 76-95.  
 Humphrey, P. B., Taylor, S. E., & Mittag, K. C. (2013). Developing consistency in the terminology and display of bar graphs and histograms. *Teaching Statistics*, 36, 3, 70-75.  
 Mittag, K. C. & Taylor, S. E. (2011). Riding the Ferris wheel: A sinusoidal model. *Problems, Resources, and Issues in Mathematics Undergraduate Studies (PRIMUS)*, 21, 5, 393-400.

- Mittag, K. C., Taylor, S. E. and Fies, D. (2010). Mean, median, or mode: Which one is my pencil?. *Mathematics Teaching in the Middle School*, 15, 548 – 553.
- Taylor, S. E. & Mittag, K. C. (2010). Tennis balls, lines, and geometric transformations. *Mathematics Teaching in the Middle School*, 15, 359 – 365.
- Mittag, K. C. & Taylor, S. E. (2009). As the ball rolls: A quadratic investigation using multiple representations. *Mathematics Teacher*, 103, 62-65.
- Taylor, S. E. & Mittag, K. C. (2008). The sum of the parts: A hands-on activity for sequences. *Mathematics and Computer Education*, 42, 44-51.
- Mittag, K. C. & Taylor, S. E. (2006). Hitting the bull's eye: A dart game simulation using graphing calculator technology. *Mathematics Teaching in the Middle School*, 12, 116 - 122.
- Mason, D., Fies, C., Taylor, S. E. and Mittag, K. C. (2004). How scientists communicate with numbers. *Texas Mathematics Teacher*, 53, 14-21.
- Taylor, S. E. & Mittag, K. C. (2003). Mathematical mysteries: Grab bag activities for estimation, measurement, and problem solving. *Texas Mathematics Teacher*, 52, 20-24.
- Taylor, S. E. & Mittag, K. C. (2001). Seven wonders of the ancient and modern quadratic world. *Mathematics Teacher*, 94, 349-350,361.
- Mittag, K. C. and Taylor, S. E. (2000). The evolution of a graphing calculator course for preservice mathematics teachers. *Issues in the Undergraduate Mathematics Preparation of School Teachers*, April 2000, 1 - 19.  
Available at <http://www.k-12prep.math.ttu.edu/journal/technology/volume.shtml>
- Taylor, S. E. & Mittag, K. C. (1998). Using a scoring rubric to evaluate statistics problems. *Texas Mathematics Teacher*, 46, 11-13.
- Taylor, S. E. & Mittag, K. C. (1996). Teaching statistics at the middle school level using student generated data sets. *Texas Mathematics Teacher*, 44, 3-4.
- Taylor, S. E. (1995) [Review of the Sharp EL-E300]. *Mathematics Teaching in the Middle Grades*, 1, 419.

### Conference Proceedings

- Saye, D. B., Brown, D. K., Roberts, L. F., Taylor, S. E. and Nessmith, C. M. (2001). Graphing calculators: Do we really want our college algebra students using them? In Goodell (Ed.), *Proceedings of the Twelfth Annual International Conference on Technology in Collegiate Mathematics*. (pp.357-361). Reading, MA: Addison-Wesley.
- Taylor, S. E. & Mittag, K. C. (2000). Activities for a mathematical modeling course. In Goodell (Ed.), *Proceedings of the Eleventh Annual International Conference on Technology in Collegiate Mathematics* (pp. 429-439). Reading, MA: Addison-Wesley.
- Taylor, S. E., Mittag, K. C. & Coleman, M. W. (1998). So you've got calculator training, now what? In Goodell (Ed.), *Proceedings of the Tenth Annual International Conference on Technology in Collegiate Mathematics* (pp.452-455). Reading, MA: Addison-Wesley.
- Taylor, S. E. (1996). Integrating projects into your curriculum. In Goodell (Ed.), *Proceedings of the Eighth Annual International Conference on Technology in Collegiate Mathematics*. (pp.414-415). Reading, MA: Addison-Wesley.
- Mittag, K. C. & Taylor, S. E. (1996). Integrating calculators and content in a preservice mathematics course. In Goodell (Ed.), *Proceedings of the Eighth Annual International Conference on Technology in Collegiate Mathematics*. (pp. 268-271). Reading, MA: Addison-Wesley.
- Taylor, S. E. (1995). Calculus using the Sharp EL-9300C. In *Proceedings of the Seventh Annual International Conference on Technology in Collegiate Mathematics*. (pp. 468-472). Reading, MA: Addison-Wesley.

### **CURRENT PROJECTS**

Teaching absolute value equation and inequalities (with Kathleen Mittag) – manuscript submitted and accepted pending editorial changes

Why teaching residuals is important in the curriculum (with Kathleen Mittag) – in preparation

Exploring algebraic inverses and reversal of  $x$  and  $y$  variables in linear models (with Steve Scariano) – in preparation

## OTHER PUBLICATIONS

Contributing author for “Demos with Positive Impact”--an NSF supported project. The activity can be accessed at <http://mathdemos.gcsu.edu/mathdemos/leaky/leaky.html>

## PRESENTATIONS

### Invited

Taylor, S. E. (February 2012) *Systems of equations from middle school to high school*. Teacher Quality Grant Workshop, Huntsville, TX

Taylor, S. E. (January 2011) *Activities for the middle school curriculum*. Teacher Quality Grant Workshop, San Antonio, TX

Taylor, S. E. (February 2010) *Connecting algebra and arithmetic*. Teacher Quality Grant Workshop, Huntsville, TX

Taylor, S. E. (December 2009) *Algebra in the middle school curriculum*. Teacher Quality Grant Workshop. San Antonio, TX

Taylor, S. E. (May 2009) *Connecting algebra and geometry*. Teacher Quality Grant Workshop, Huntsville, TX

Taylor, S. E. (February 2009) *Statistics in the Algebra I curriculum*. Teacher Quality Grant Workshop, Huntsville, TX

Taylor, S. E. (February 2009) *Teaching statistics with real world data*. Beijing Normal University Mathematics Conference, Beijing, China

Taylor, S. E. (February 2008) *Sequences and functions in algebra*. Teacher Quality Grant Workshop, Huntsville, TX

Beauford, J., Mason, D., and Taylor, S. E. (July 2001) *Panel discussion on the integration of mathematics, science and technology*. Conference on the Advancement of Mathematics Teaching, San Antonio, TX

Taylor, S. E. and Mittag, K. C. (July 2000) *Gas laws applications with technology*. Conference on the Advancement of Mathematics Teaching, Houston, TX

Saye, D. B and Taylor, S. E. (May 2000) *Modeling activities for algebra*. Regional Teachers Teaching with Technology Conference, Savannah, GA.

Taylor, S. E. (November 1999) *Activities for the middle grades*. Association of Mathematics Teachers of New York State, Buffalo, NY

Taylor, S. E. (December 1996) *Integrating math, science and technology for middle school*. Columbus Regional Mathematics Collaborative, Columbus, GA

Taylor, S. E. (March 1996) *Using projects in the classroom*. Teachers Teaching with Technology regional conference, Philadelphia, PA

Taylor, S. E., & Mittag, K. C. (June 1991) *Using the TI-81 in statistics*. Conference on Technology, Houston, TX

Mittag, K. C., & Taylor, S. E. (January 1991) *An introduction to the TI-81 for trigonometry and statistics*. Conference on the Teaching of Secondary Mathematics, Huntsville, TX

### Volunteered

- Taylor, S. E. & Chamblee, G. E. (November 2013) *Differences in professional development for elementary teachers vs. high school teachers*. School Science and Mathematics Association Annual Conference, San Antonio, TX
- Taylor, S. E. & Mittag, K. C. (October 2013) *Residuals in the common core*. National Council of Teachers of Mathematics Regional Conference, Las Vegas, NV
- Mittag, K. C. & Taylor, S. E. (October 2013) *Dart mathematics: Using paper, Nerfs, graphing calculators, and SMART boards*. National Council of Teachers of Mathematics Regional Conference, Las Vegas, NV
- Mittag, K. C. & Taylor, S. E. (October 2013) *Dart mathematics: Using paper, Nerfs, graphing calculators, and SMART boards*. National Council of Teachers of Mathematics Regional Conference, Baltimore, MD
- Mittag, K. C. & Taylor, S. E. (October 2013) *Roll your way to understanding quadratics*. Georgia Mathematics Conference, Eatonton, GA
- Nguyen, H., and Taylor, S. E. (October 2013) *Coordinate algebra: From patterns and sequences to functions*. Georgia Mathematics Conference, Eatonton, GA
- Darley, J. W., Nguyen, H., & Taylor, S. E. (October 2013) *Are word problems “problems” for K-8 preservice teachers?* Georgia Association of Mathematics Teacher Educators, Eatonton, GA
- Taylor, S. E. (April 2013) *Easy absolute values? Absolutely!* National Council of Teachers of Mathematics Annual Conference, Denver, CO
- Mittag, K. C. and Taylor, S. E. (February 2013) *Why, what, where, and how to use residuals*. Conference on the Teaching of Mathematics 6-12, Huntsville, TX
- Mittag, K. C. and Taylor, S. E. (October 2012) *Analyzing residuals in coordinate algebra*. Georgia Mathematics Conference, Eatonton, GA
- Taylor, S. E. and Lanier, S. M. (October 2012) *What’s different in 6-8 geometry, probability, and statistics*. Georgia Mathematics Conference, Eatonton, GA
- Taylor, S. E., Lanier, S. M., and Darley, J. W. (October 2012) *How common core is changing what we teach at Georgia Southern*. Georgia Association of Mathematics Teacher Educators, Eatonton, GA
- Mittag, K. C. and Taylor, S. E. (July 2012) *Sum of the parts: An activity for sequences*. Conference from the Advancement of Mathematics Teaching, Houston, TX
- Mittag, K. C. and Taylor, S. E. (January 2012) *Riding the Ferris wheel: A sinusoidal model*. AMS-MAA Joint Mathematics Meetings, Boston, MA
- Mittag, K. C. and Taylor, S. E. (October 2011) *Altitude and atmospheric pressure: See how they’re related*. School Science and Mathematics Conference, Colorado Spring, CO
- Chamblee, G. E. and Taylor, S. E. (October 2011) *Professional development of high school teachers-A Georgia US DOE MSP grant*. School Science and Mathematics Conference, Colorado Spring, CO
- Mittag, K. C. and Taylor, S. E. (October 2011) *Riding the Ferris wheel: A sinusoidal model*. National Council of Teachers of Mathematics Regional Conference, Atlantic City, NJ
- Taylor, S. E. and Grasse, M. (April 2011) *Data analysis? What about graphical analysis?* National Council of Teachers of Mathematics, Indianapolis, IN
- Taylor, S. E., Mittag, K. C., and Zientek, L. R. (February 2011) *Using real data for z-scores and confidence intervals*. Conference on the Teaching of Mathematics 6 – 12, Huntsville, TX
- Mittag, K. C. and Taylor, S. E. (October 2010) *Is my pencil normal?* National Council of Teachers of Mathematics Regional Conference, New Orleans, LA
- Taylor, S. E. (October 2010) *What is an “average” pencil?* Georgia Mathematics Conference, Rock Eagle, GA
- Lanier, S. M. and Taylor, S. E. (October 2010) *Basic skills testing in Math 2008*. Georgia Association of Mathematics Teacher Educators. Rock Eagle, GA
- Mittag, K. C. and Taylor, S. E. (April 2010) *Tennis balls, lines and geometric transformations*. National Council of Teachers of Mathematics Annual Conference. San Diego, CA
- Mittag, K. C. and Taylor, S. E. (February 2010) *Mean, median, or mode: Which one is my pencil?* Conference on the Teaching of Mathematics 6-12. Huntsville, TX

- Taylor, S. E., Mittag, K. C. and Zientek, L. R. (October 2009) *Bar graphs and histograms: What's so hard to understand?* School Science and Mathematics Association. Reno, NV
- Mittag, K. C., Taylor, S. E. and Zientek, L. R. (October 2009) *The Ferris wheel goes round and round.* School Science and Mathematics Association. Reno, NV
- Taylor, S. E. and Mittag, K. C. (October 2009) *Hands on exploration of transformations.* Georgia Mathematics Conference. Rock Eagle, GA
- Mittag, K. C. and Taylor, S. E. (October 2009) *Modeling Ferris wheel motion.* Georgia Mathematics Conference. Rock Eagle, GA
- Taylor, S. E. and Grasse, M. (April 2009) *Developing algebraic thinking by exploring linearity.* National Council of Teachers of Mathematics Annual Conference. Washington, DC
- Mittag, K. C. and Taylor, S. E. (February 2009) *Riding the Ferris wheel.* Conference on the Teaching of Mathematics 6 – 12. Huntsville, TX
- Chamblee, G. E. and Taylor, S. E. (November 2008) *Georgia's new high school mathematics curriculum: What is it?* School Science and Mathematics Association. Raleigh, NC
- Mittag, K. C. and Taylor, S. E. (November 2008) *Have a ball exploring parabolas.* School Science and Mathematics Association. Raleigh, NC
- Taylor, S. E. (October 2008) *Using a tennis ball to explore lines.* Georgia Mathematics Conference. Rock Eagle, GA
- Mittag, K. C. & Taylor, S. E. (April 2008) *The amazing tennis ball activity.* National Council of Teachers of Mathematics Annual Conference. St. Lake City, UT
- Mittag, K. C. & Taylor, S. E. (February 2008) *Exploring parabolas using physical models.* Conference on the Teaching of Mathematics 6 – 12. Huntsville, TX
- Mittag, K. C. & Taylor, S. E. (November 2007) *Integrated mathematics and science hot wheels activity: Determining speed, velocity, and acceleration.* School Science and Mathematics Association, Indianapolis, IN
- Chamblee, G. E. & Taylor, S. E. (November 2007) *Georgia's new grades 6-8 mathematics curriculum: What is it?* School Science and Mathematics Association, Indianapolis, IN
- Taylor, S. E. (October 2007) *Data analysis and probability GPS in Grades 6-8.* Georgia Mathematics Conferences, Rock Eagle, GA.
- Taylor, S. E. & Saye, D. B. (March 2007) *The sum of the parts: A hands on activity for sequences.* Teachers Teaching with Technology, Chicago, IL
- Taylor, S. E. & Chamblee, G. E. (October 2006) *Meeting K-8 pre-service math requirement changes via cooperation between education and mathematics faculty.* School Science and Mathematics Association, Missoula, MT
- Taylor, S. E. & Ottinger, T. P. (October 2006) *Data analysis in the 7<sup>th</sup> grade framework.* Georgia Mathematics Conference, Rock Eagle, GA
- Taylor, S. E. (April 2006) *Hands on modeling activities for your classroom.* National Council of Teachers of Mathematics Annual Conference, St. Louis, MO
- Taylor, S. E. (February 2006) *Graphing, geometry, and probability.* Teachers Teaching with Technology, Denver, CO
- Mittag, K. C. & Taylor, S. E. (January 2006) *Modeling activity to develop sequential, power and exponential functions.* Mathematical Association of America, San Antonio, TX
- Taylor, S. E. & Lanier, S. M. (October 2005) *Having a ball with probability.* Georgia Mathematics Conference, Rock Eagle, GA
- Chamblee, G. E. & Taylor, S. E. (October 2005) *Incorporating algebraic thinking in upper elementary classrooms.* Georgia Mathematics Conference, Rock Eagle, GA
- Chamblee, G. E. & Taylor, S. E. (October 2005) *Bridging algebra and algebraic thinking in middle grades.* Georgia Mathematics Conference, Rock Eagle, GA
- Taylor, S. E. & Mittag, K. C. (March 2005) *Hands on modeling activities.* Teachers Teaching with Technology, Washington, DC

- Taylor, S. E. (February 2005) *Playing darts the quiet and painless way*. Conference on the Teaching of Mathematics 6-12, Huntsville, TX
- Taylor, S. E. & Mittag, K. C. (January 2005) *Enhancing Teaching and Learning of Quadratic Equations by Using Handheld Technology*. Mathematical Association of America, Atlanta, GA
- Taylor, S. E. & Saye, D. B. (October 2004) *Hands on learning stations for the math classroom*. School Science and Mathematics Association, Atlanta, GA
- Taylor, S. E. & Saye D. B. (October 2004) *Fun with measurement and estimation*. Georgia Mathematics Conference, Rock Eagle, GA
- Taylor, S. E. (May 2004) *Websites for algebra students and teachers*. First Annual Southeast Georgia P-12 Mathematics Conference, Statesboro, GA
- Taylor, S. E. and Mittag, K. C. (April 2004) *Integrating math, science and technology in one lesson: it can be done*. National Council of Teachers of Mathematics Annual Conference, Philadelphia, PA
- Taylor, S. E. and Mittag, K. C. (March 2004) *Fun with probability*. Teachers Teaching with Technology Conference, New Orleans, LA
- Taylor, S. E. (February 2004) *Darts, craps, and happy meals*. Conference on the Teaching of Secondary Mathematics, Huntsville, TX
- Taylor, S. E. and Saye, D. B. (October 2003) *Darts, craps, and happy meals*. Georgia Mathematics Conference, Rock Eagle, GA
- Taylor, S. E. & Mittag, K. C. (March 2003) *Darts, craps, and happy meals*. Teachers Teaching with Technology Conference, Nashville, TN
- Taylor, S. E. (February 2003) *Discrete mathematics ideas for the classroom*. Conference on the Teaching of Secondary Mathematics. Huntsville, TX
- Taylor, S. E. and Saye, D. B. (November 2002) *Modeling activities to make math fun and interesting*. International Conference on Technology in Collegiate Mathematics, Orlando, FL
- Taylor, S. E. and Mittag, K. C. (May 2002) *Investigating atmospheric pressure*. Math/Science/Technology Conference, Savannah, GA
- Taylor, S. E. and Mittag, K. C. (November 2001) *How in-depth do you want to be with your technology?* International Conference on Technology in Collegiate Mathematics, Baltimore, MD
- Taylor, S. E. (October 2001) *Mathematical mysteries*. Georgia Mathematics Conference, Rock Eagle, GA
- Mittag, K. C. and Taylor, S. E. (April 2001) *Who says you can't have math, science, and technology in the same lesson?* National Council of Teachers of Mathematics Annual Conference, Orlando, FL
- Taylor, S. E. and Mittag, K. C. (April 2001) *Seven wonders of the ancient and modern quadratic world*. National Council of Teachers of Mathematics Annual Conference, Orlando, FL
- Taylor, S. E. (March 2001) *Low tech or high tech: You decide*. Teachers Teaching with Technology. Columbus, OH
- Taylor, S. E. and Mittag, K. C. (November 2000) *Seven wonders of the ancient and modern quadratic world*. International Conference on Technology in Collegiate Mathematics, Atlanta, GA
- Mittag, K. C. and Taylor, S. E. (November 2000) *Integrating math, science, and technology*. International Conference on Technology in Collegiate Mathematics, Atlanta, GA
- Taylor, S. E. and Saye, D. B. (October 2000) *Fun problems for middle school geometry*. Georgia Mathematics Conference, Rock Eagle, GA
- Taylor, S. E. and Saye, D. B. (March 2000) *Incorporating modeling activities into algebra*. Teachers Teaching with Technology, Dallas, TX
- Saye, D.B., Brown, D. K., Roberts, L. F., Taylor, S. E. and Nessmith, C. M. (November 1999) *Graphing calculators: Do we really want our college algebra students using them?* International Conference on Technology in Collegiate Mathematics, San Francisco, CA
- Taylor, S. E. and Mittag, K. C. (November 1999) *Mathematical modeling as a part of college algebra*. International Conference on Technology in Collegiate Mathematics, San Francisco, CA
- Taylor, S. E. and Mittag, K. C. (October 1999) *Integrating math and science in your classroom*. Georgia Mathematics Conference. Rock Eagle, GA

- Taylor, S. E. & Mittag, K. C. (July 1999) *Integrating math, science and technology*. Conference for the Advancement of Mathematics Teaching, Dallas, TX
- Taylor, S. E. (April 1999) *Grab bag activities for the middle grades*. National Council of Teachers of Mathematics Annual Conference, San Francisco, CA
- Taylor, S. E. (January 1999) *Ideas for your AP statistics classroom*. Teachers Teaching with Technology conference, Chicago, IL
- Taylor, S. E. (January 1999) *Survey design in statistics*. Conference on the Teaching of Secondary Mathematics, Huntsville, TX
- Fischer, E. M. & Taylor, S. E. (January 1999) *Mathematics courses via interactive television*. Mathematical Association of America Meeting, San Antonio, TX
- Taylor, S. E. & Mittag, K. C. (November 1998) *Ideas and activities for a mathematical modeling course*. International Conference on Technology in Collegiate Mathematics, New Orleans, LA
- Mittag, K. C. & Taylor, S. E. (November 1998) *Integrating mathematics and science activities including technology for pre-service teachers*. International Conference on Technology in Collegiate Mathematics, New Orleans, LA
- Taylor, S. E., Springer, G. T. and Mittag, K. C. (July 1998) *A heart rate lab activity for statistics*. Conference on the Advancement of Mathematics Teaching, San Antonio, TX
- Taylor, S. E. and Mittag, K.C. (July 1998) *Manipulatives and technology for middle grade teachers*. Conference on the Advancement of Mathematics Teaching, San Antonio, TX
- Mittag, K. C. and Taylor, S. E. (April 1998) *Integrating math and science for middle grades*. National Council of Teachers of Mathematics Annual Conference, Washington, DC
- Taylor, S. E. (April 1998) *Calculators and content for preservice teachers*. National Council of Teachers of Mathematics Annual Conference, Washington, DC
- Taylor, S. E. (March 1998) *Balancing concepts and technology*. Teachers Teaching with Technology, Nashville, TN
- Taylor, S. E. and Mittag, K. C. (November 1997) *So you've got calculator training, now what?* International Conference on Technology in Collegiate Mathematics, Chicago, IL
- Mittag, K. C. and Taylor, S. E. (November 1997) *Analyzing student heart rate data*. International Conference on Technology in Collegiate Mathematics, Chicago, IL
- Taylor, S. E. and Mittag, K. C. (July 1997) *Manipulatives and technology for middle school*. Conference for the Advancement of Mathematics Teaching, Houston, TX
- Taylor, S. E. (July 1997) *A lab activity to analyze student heart rate data*. Conference on the Teaching of Mathematics for the 21st Century, Houston, TX
- Taylor, S. E. (February 1997) *An extended project for precalculus or statistics*. Teachers Teaching with Technology, Philadelphia, PA
- Taylor, S. E. (January 1997) *Generating data sets to use in the classroom*. Conference on the Teaching of Secondary Mathematics, Huntsville, TX
- Taylor, S. E. (November 1996) *Does technology training enhance mathematical concepts and ideas?* International Conference on Technology in Collegiate Mathematics, Reno, NV
- Taylor, S. E. (July 1996) *Content and calculators in a secondary preservice course*. Seventh Annual Conference on Technology, Houston, TX
- Taylor, S. E. (April 1996) *Integrating technology based projects into your curriculum*. National Council of Teachers of Mathematics Annual Conference, San Diego, CA
- Mittag, K. C. & Taylor, S. E. (April 1996) *Using graphing calculators in educational statistics courses*. American Educational Research Association, New York, NY
- Taylor, S. E. (March 1996) *Using technology in a pre-service content course*. Teachers Teaching with Technology, Jacksonville, FL
- Taylor, S. E. & Mittag, K. C. (January 1996) *Activity based strategies for problem solving*. Conference on the Teaching of Secondary Mathematics, Huntsville, TX
- Taylor, S. E. (December 1995) *Calculator activities for the middle grades*. National Council of Teachers of Mathematics Regional Meeting, Philadelphia, PA



- Taylor, S. E. (November 1995) *Integrating projects into your curriculum*. International Conference on Technology in Collegiate Mathematics, Houston, TX
- Mittag, K. C. & Taylor, S. E. (November 1995) *Integrating calculators and content in a preservice mathematics course*. International Conference on Technology in Collegiate Mathematics, Houston, TX
- Taylor, S. E. (August 1995) *Integrating projects into your curriculum*. Conference for the Advancement of Mathematics Teaching, San Antonio, TX
- Taylor, S. E. (August 1995) *Calculator activities in the middle grades*. Conference for the Advancement of Mathematics Teaching, San Antonio, TX
- Mittag, K. C. & Taylor, S. E. (August 1995) *Activity based strategies and problem solving in middle school*. Conference for the Advancement of Mathematics Teaching, San Antonio, TX
- Taylor, S. E. (July 1995) *Using a fraction and statistics calculator in developmental mathematics*. Sixth Annual Conference on Technology, Houston, TX
- Taylor, S. E. (April 1995) *The Sharp EL-E300 middle school calculator: An introduction and ideas for use*. National Council of Teachers of Mathematics Annual Meeting, Boston, MA
- Taylor, S. E. (January 1995) *Calculator activities for middle grades*. Conference on the Teaching of Secondary Mathematics, Huntsville, TX
- Taylor, S. E. (November 1994) *Calculus using the Sharp EL-9300C*. International Conference on Technology in Collegiate Mathematics, Orlando, FL
- Taylor, S. E. (October 1994) *An introduction to the Sharp EL-9300C graphing calculator*. Association of Mathematics Teachers of New England, Burlington, VT
- Taylor, S. E. (October 1994) *Integrating the Sharp EL-E300 middle school calculator into the curriculum*. Association of Mathematics Teachers of New York State, Concorde Hotel, NY
- Taylor, S. E. (October 1994) *Statistical competencies of prospective elementary and middle school teachers*. National Council of Teachers of Mathematics Regional Meeting, Tulsa, OK
- Taylor, S. E. (October 1994) *An introduction to using the Sharp EL-E300 in the middle grades*. Third Annual Carolinas Conference, Charlotte, NC
- Taylor, S. E. (October 1994) *Using the Sharp EL-9300C graphing calculator*. Third Annual Carolinas Conference, Charlotte, NC
- Taylor, S.E. (July 1994) *Using the Sharp EL-E300 in the middle school*. Conference for the Advancement of Mathematics Teaching, Houston, TX
- Taylor, S.E. (July 1994) *An introduction to the Sharp EL-9300C graphing calculator*. Conference for the Advancement of Mathematics Teaching, Houston, TX
- Taylor, S. E. (July 1994) *An introduction to the Sharp EL-E300 in the middle school*. Fifth Annual Conference on Technology, Houston, TX
- Taylor, S. E. (July 1994) *Using the Sharp EL-E300 in developmental mathematics*. Fifth Annual Conference on Technology, Houston, TX
- Taylor, S. E. (April 1994) *An introduction to the Sharp EL-E300 middle school calculator*. National Council of Teachers of Mathematics Annual Meeting, Indianapolis, IN
- Taylor, S. E. (February 1994) *Linking graphing calculator technology to mathematics topics*. National Council of Teachers of Mathematics Regional Meeting, Richmond, VA
- Taylor, S. E. (November 1993) *An introduction to using the Sharp EL-9300 in calculus*. Association on Mathematics Teachers of New York State, Buffalo, NY
- Taylor, S. E. (November 1993) *Calculus with the Sharp EL-9300*. International Conference on Technology in Collegiate Mathematics, Parsippany, NJ
- Taylor, S. E. (July 1993) *TASP topics using the TI-81 and TI-82 calculators*. Fourth Annual Conference on Technology, Houston, TX
- Taylor, S. E., & Mittag, K. C. (August 1992) *Games and simulations for probability and statistics*. Conference for the Advancement of Mathematics Teaching, San Antonio, TX
- Taylor, S. E. (April 1992) *Math as it relates to careers*. National Council of Teachers of Mathematics Annual Conference, Nashville, TN

Mittag, K. C., & Taylor, S. E. (November 1991) *Using the TI-81 in statistics*. Trinity-Brazos River Valley Council of Teachers of Mathematics Fall Conference, College Station, TX

Mittag, K. C., & Taylor, S. E. (November 1991) *Games and simulations for probability and statistics*. Trinity-Brazos River Valley Council of Teachers of Mathematics Fall Conference, College Station, TX

## GRANT ACTIVITIES

Georgia Department of Education Mathematics Science Partnership Grant (GaMSP) – Co PI (with Greg Chamblee) – This grant was a two-year grant to work with 3<sup>rd</sup> – 5<sup>th</sup> grade teachers on their transition from Georgia Performance Standards to Common Core State Standards. Duties includes writing pre and post tests, analyzing survey data to create the instructional portion of the workshop, and teaching the two-week summer institute and follow up meetings. Two-Year Funding Total: \$341,076 (July 2011 – June 2013)

Georgia Department of Education Mathematics Science Partnership Grant (GaMSP) – Co PI (with Greg Chamblee) – This grant was a two-year project to train teachers for Math I and Math II, the new 9<sup>th</sup> and 10<sup>th</sup> grade high school mathematics courses. Duties included writing pre and post tests, teaching the summer workshops and follow up meetings, analyzing data to plan future meetings, and conducting on-line learning community meetings. Two-Year Funding Total: \$329,540 (July 2009 – June 2011)

University System of Georgia Grant – Co PI (with Patricia Humphrey) – This grant was to co-write an on-line course for the new K-5 Endorsement being offered at the system level. Duties included writing instructional materials and assessment items for the course. Total Funding: \$6728 (Fall 2009)

Georgia Department of Education Mathematics Science Partnership Grants (GaMSP) - This grant was awarded to the Heart of Georgia RESA and Georgia Southern is a sub-awardee on the grant. Duties included working with College of Education and College of Science and Technology faculty to train middle school teachers on the new Georgia Performance Standards. Total Funding: \$338,656 (January 2005 – July 2007)

PRISM (Partnership for Reform In Science and Mathematics) is an NSF grant awarded to the University System of Georgia. Georgia Southern University is one of four partners in the grant. Duties are both at the regional level and the state level

- State level reward committee (July 2004 – September 2007)  
This committee examined the reward structure for higher education science and mathematics faculty who work with P-12 schools through the PRISM grant.
- State level institute planning committee (Spring 2004)  
One component of the grant is to hold system-wide two-day institutes and this committee plans those institutes.
- GSU mini-grants (Summer 2005 – Summer 2007)  
Two mini-grants as PI and 7 mini-grants as a mathematics consultant.

Served as a consultant for Enhancing Education Through Technology grant. This grant implemented on-line algebra instruction to work in conjunction with classroom instruction. (Summer 2001 - Summer 2004)

Co-PI of Georgia Eisenhower grant to train middle school teachers in teaching algebra. Funded in summer 2002. Implemented Spring 2003. Co-PI was Greg Chamblee from the College of Education. Total Funding: \$10,542 (Summer 2002 – Spring 2003)

Assisted in implementing an American Association of State Colleges and Universities grant awarded to the University System of Georgia. USG awarded smaller grants to Georgia schools and GSU's award was for developing alternative teaching strategies for College Algebra. (Spring 2002)

Served as a consultant for a Department of Education Technology Innovation Challenge Grant. This grant worked with teachers in five states to develop on-line activities for teachers. (Fall 2000 - Spring 2002)

Assisted in planning three Texas Higher Education Coordinating Board Eisenhower grants. Grant preparations were Spring 1999, 2000, and 2001 with instruction during the summers of those years. These grants also required follow up meetings that lasted through the 1999-2000, 2000-2001, and 2001-2002 school years. Duties included serving as an administrative assistant and consultant for the grants, assisting participants in writing activities, providing instruction to the participants, planning follow-up meetings and serving as an instructor at those meetings. (Summer 1999 - Summer 2002)

Served as an administrative assistant and consultant for a Texas Higher Education Coordinating Board Eisenhower grant. Organized participants and instructors, carried out administrative and secretarial duties, and assisted participants in writing activities. Additional duties included assisting in the planning of follow-up meetings and serving as an instructor at those meetings. (Summer 1998 - Summer 1999)

Received travel grants for conference travel from Hewlett-Packard, Texas Instruments, Casio and Sharp Electronics totaling over \$50,000 (1996 - present)

Selected as a host for a Regional Teachers Teaching with Technology conference. The GSU Mathematics Department hosted a two-day conference on the use of technology in the classroom. Total grant award: \$3000. (May 1997)

Project Staff for SysTeMS (Meeting the Challenge of Systemic Change Through the Effective Use of Technology in Science and Mathematics). Duties included researching, writing and editing project materials. Also assisted in preparation of proposal. (Spring 1995 - Summer 1996)

Planning and Development Consultant with the TRANSIT-NJ project. Duties included working with project staff to develop materials, assisting in the planning of follow-up meetings and serving as an instructor at follow up meetings throughout the school year. (Fall 1994 - Summer 1996)

Instructor for TRANSIT-NJ summer program. Duties included instructing participants on appropriate calculator use and activities for the middle school. (Summer 1994 and 1995)

Instructor with the State Systemic Initiative (SSI) Project Site at Montclair State. Activities included working with the technology aspect for the 5 - 8 teachers. (Summer 1994 and 1995)

Obtained 75 Sharp EL-E300 middle school calculators for use in two SSI summer programs. (Summer 1994 and 1995)

**GEORGIA SOUTHERN UNIVERSITY GRANTS**

Received \$967 Travel Grant from the GSU Faculty Development and Welfare Committee (Spring 2014)

Received \$1000 Travel Grant from the GSU Faculty Development and Welfare Committee (Spring 2011)

Received \$609.39 Travel Grant from the GSU Faculty Development and Welfare Committee (Spring 2009)

Received \$500 Service Grant from GSU Faculty Service Committee. (Fall 2008)

Received \$542 Travel Grant from the GSU Faculty Development and Welfare Committee. (Spring 2006)

Received \$409 Travel Grant from the GSU Faculty Development and Welfare Committee. (Spring 2003)

Received \$500 Service Grant from the GSU Faculty Development and Welfare Committee to buy supplied for technology conference co-sponsored with Armstrong Atlantic State University. (Spring 2002)

Received \$1500 Summer Grant from the GSU Faculty Development and Welfare Committee to fully develop five new courses being offered in the Mathematics Department (Summer 2000)

Received \$380 Travel Grant from the GSU Faculty Development and Welfare Committee (Spring 2000)

Received \$500 Development of Instruction Grant from the GSU Faculty Development and Welfare Committee (Fall 1998).

Received \$450 Travel Grant from the GSU Faculty Development and Welfare Committee (Fall 1997).

**SERVICE ACTIVITIES**

To GSU (College of Science and Technology/College of Science and Mathematics)  
Course and Curriculum Committee (Fall 2010 – Spring 2012)

Member of P-5 Math and Science Endorsement Committee (Fall 2008 – Fall 2012)

COST Post Tenure Committee (Spring 2009 – Spring 2010)

COST Tenure and Promotion Committee (Fall 2002 and Fall 2006)

COST Advisory Committee (1998-1999)

To GSU (College of Education)

Served on search committee for Chair for Teaching and Learning (Fall 2012)

Served on search committee for assistant professor of mathematics education position (2010-2012)

Worked the COE administration to develop application for the new K-5 endorsement submitted to the Professional Standards Commission. (Spring and Fall 2010)

Worked with COE Faculty on new mathematics courses for Area F and Early Childhood and Middle Grade Program of Study. (2006 - 2007)

Served on search committee for assistant professor of middle grades position (2006 - 2007 school year)

Supervised student teachers (2005 – 2010)

Worked with College of Education faculty to prepare and submit the application packet for a P-5 mathematics endorsement from the state. (2005 - 2006)

Conducted PRAXIS I and II workshops for teacher education majors. These three-hour workshops were held on Saturdays each semester to prepare students for the test. (2003 - 2006)

Served on two Standards Based Teacher Education Preparation (STEP) Committees, a cooperative effort between the College of Education and the Department of Mathematics (Spring 2001 - Summer 2002)

Organized a one-day workshop for local mathematics teachers as a follow up to the April 1998 workshop. The focus was to provide an overview of mathematics expectations of students coming to GSU and how local high school teachers can better prepare their students mathematically. (April 1999)

Organized a one-day workshop for local mathematics teachers. The focus of the workshop was to provide an overview of mathematics expectations of students coming to GSU and how local high school teachers can better prepare their students mathematically. (April 1998)

Teacher Education Advisory Committee (1997-2001)

#### To the Department

Interim Chair (Fall 2012 – present)

Associate Chair (Fall 2010 – Summer 2012)

Coordinate scheduling, training and evaluation of Graduate Assistants

Member, University Assessment Platform Committee

Assess transfer credit for mathematics courses

Oversee elections in conjunction with the Elections Committee

#### Committees

Course and Curriculum (2009-2012)

Search (1997-1998, 1998-1999, 2006-2007, 2010-2011, 2011-2012)

Chair (2005-2006, 2010-2011, and 2011-2012)

Graduate Coordinating Committee (2005 - 2008)

Steering Committee (2005 - 2006)

Mathematics Education Search Chair (2004-2005)

Tenure and Promotion (2004-2005, 2008-2009, 2009 – 2010, 2011-2012)

Chair (2008-2009, 2009-2010)

Mathematics Tournament Committee (2001-present)

Junior High Test Chair (2004- present)

Governance Document Task Force (2003-2004)

Post Tenure Review Chair (2002-2003)

Scholarship (2002-2003)  
Department Chair Search (2001-2002)  
Department Chair Search (1997-1998)  
Mathematics Education (1996-present)  
    Chair (1997-present)  
College Algebra (1998-1999)  
Teachers Teaching with Technology (1996-1997)  
Foundation Grants (1998-1999 and 1999-2001)  
    Chair (1999-2001)  
Alumni Committee (1999-2001)

Other

Advisor for Golden Key International Honor Society (2002-2003)  
Advisor for Mathematics Majors with Teacher Certification (1997-2000)  
Co-advisor for Mathematical Association of America Student Chapter (1997-1999)

To the Mathematics Education Community

Selected by the National Council of Teachers of Mathematics to serve on the program committee for the regional NCTM meeting in Richmond, VA, November 2014 (Summer 2013 – November 2014)

Selected by the National Council of Teachers of Mathematics to serve on the program committee for the regional NCTM meeting in Dallas, October 2012 (Summer 2011 – October 2012)

President of the Georgia Association of Mathematics Teacher Educators (October 2010 – October 2012)  
(President-Elect 2009-2010, Past-President 2012-2013)

Selected by Georgia Department of Education to serve on the K-12 Mathematics Advisory Council (May 2010 – present)

Selected by Georgia Department of Education to serve on the End of Course Test Standards Setting Committee (December 2009)

Writing team for P-5 Mathematics Endorsement. Plan courses to be offered, write learning outcomes and objectives for three courses, co-writer for one of the courses. (Summer 2009 – Spring 2010)

Program Chair for Georgia Association of Mathematics Teacher Educators Conference. (2008 – present)

Member of the Program Committee for the 2009 Georgia Mathematics Conference. (Spring – October 2009)

Member of the Program Committee for the 2008 Georgia Mathematics Conference. (Spring – October 2008)

Co-chair for the first Georgia Association of Mathematics Teacher Educators one-day conference in October 2007. (Spring and Summer 2007)

Trainer for Georgia Department of Education. Train teachers around the state to teach the new 9<sup>th</sup> grade mathematics curriculum. (Spring and Summer 2007)

Writer for Georgia Department of Education standards for Discrete Mathematics course for high school students. This group was charged with writing performance standards and tasks for the state to use in training teachers to teach the new course. (Spring 2007)

Writer for the Georgia Department of Education 7<sup>th</sup> grade framework. This group wrote an extensive outline for 7<sup>th</sup> grade teachers who are teaching using the new Georgia Performance Standards for the first time. (Spring 2006)

Secretary for a newly formed organization, Georgia Association of Mathematics Teacher Educators. (January 2006 – October 2007)

Member of the Local Arrangements Committee (LAC) for the National Council of Teachers of Mathematics annual meeting in San Antonio, TX in April 2003.

Program Co-Chair for the annual Georgia Mathematics Conference in October 2002. The conference is sponsored by the Georgia Council of Teachers of Mathematics. Served as co-chair with Jane Barnard from Armstrong Atlantic State University (Spring 2001-Fall 2002)

Reviewer for a new statistics book by McGraw-Hill. (Fall 2002)

Co-sponsor of mathematics/science/technology conference with Jane Barnard of Armstrong Atlantic State University held in Savannah in May 2002.

Delegate to the National Council of Teachers of Mathematics national meeting (April 2000-April 2002)

Reviewer for Addison-Wesley texts. (Fall 1999 -Fall 2001)

Member of statewide writing team assembled to write the curriculum for four courses for in-service middle grade teachers who lack 12 hours of mathematics background. (Fall 1999 and Spring 2000)

Provided in-service training for mathematics teachers at Southeast Bulloch High School on the use of graphing calculators. (Summer 1998)

Selected as a participant for the writing team for a new Teachers Teaching with Technology Short Course. This new course will be for college faculty to train pre-service teachers. During the one week writing institute, I was also selected to serve as an editor for these new materials. (Summer 1997)

Reviewer of manuscripts for the Texas Council of Teachers of Mathematics journal *Texas Mathematics Teacher*. (1997 - 2002)

Coordinator of the regional Teachers Teaching with Technology meeting held on the GSU campus. (May 1997)

Reader and Table Leader for the Advanced Placement Calculus Exam. (1996 - present)

Beta testing for new calculators (Casio, Hewlett-Packard, Sharp Electronics, and Texas Instruments) (1995-present)

Reviewer of manuscripts for the NCTM journal *Mathematics Teaching in the Middle School*. (Spring 1994 - present)

Assisted in the coordination of exhibitors at the annual Conference on the Teaching of Secondary Mathematics in Huntsville, TX. (1991 - 2000)

### **AWARDS AND HONORS**

Award for Excellence in Contributions to Instruction, August 2008

College of Science and Technology Award for Excellence in Teaching, August 2007

### **MEMBERSHIPS**

Georgia Council of Teachers of Mathematics

Mathematical Association of America

National Council of Teachers of Mathematics

Texas Council of Teachers of Mathematics