

Cannon

Curriculum Vitae
Tenille Cannon
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Education

Ph.D., Curriculum and Instruction: Mathematics Education, The Pennsylvania State University, University Park, PA, December, 2016

M.A., Mathematics Education. Brigham Young University, Provo, UT, August, 2008

B.A., Mathematics Education. Brigham Young University, Provo, UT, August, 2003

Teaching Positions

Assistant Teaching Professor of Mathematics Education, Brigham Young University, Provo, UT, 2020-present

Assistant Professor of Mathematics, Southern Utah University, Cedar City, UT, 2018-2020

Mathematics Teacher, State College Area High School, State College, PA, 2013-2018
Course chair for CP Algebra 1 and Advanced Honors Precalculus, Mentor teacher, Invited presenter at variety of district professional development sessions

Graduate Research Assistant and Fellow, Mid-Atlantic Center for Mathematics Teaching and Learning Project, Mathematics Education Program, Department of Curriculum & Instruction, The Pennsylvania State University, University Park, PA, 2009-2013

Mathematics Evaluator, Secondary Education, Western Governors University, Salt Lake City, UT, 2008-2009

Graduate Research Assistant and Teaching Assistant, Brigham Young University, Provo, UT, 2006-2008

Mathematics Teacher, Payson Junior High School, Payson, UT, 2003-2006

Course Instructor for College Geometry and College Algebra through BYU Independent Study (precursor to online education programs), Provo, UT, 2003-2004

Journal Articles

Zbiek, R. M., Peters, S. A., Johnson, K. H., Cannon, T., Boone, T. M., & Foletta, G. M. (2014). Locally logical mathematics: An emerging teacher honoring both students and mathematics. *Journal of Mathematical Behavior*, 34, 58–75. Retrieved from

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<http://www.sciencedirect.com/science/article/pii/S0732312314000145>

Invited Book Chapters

Tillema, E., Cannon, T., Johnson, K., & Zbiek, R. M. (2015). Area of plane figures. In M. K. Heid, P. S. Wilson, & G. W. Blume (Eds.), *Mathematical understanding for secondary teaching: A framework and classroom-based situations* (pp. 329-336). Charlotte, NC: Information Age Publishing, Inc. and NCTM.

Presentations

Cannon, T. (April, 2019). *The use of task templates to guide design activity*. Paper presented at the National Council of Teachers of Mathematics (NCTM) Research Session, San Diego, CA.

Cannon, T. (March, 2019). *Exploring prospective secondary teachers' use of task templates as part of their curricular noticing*. Presentation at the Utah Association of Mathematics Teacher Educators Conference, Salt Lake City, UT.

Cannon, T. (April, 2018). *Prospective secondary teachers' orientations toward mathematical processes as action facilitators*. Paper presented at the National Council of Teachers of Mathematics (NCTM) Research Session, Washington DC.

Johnson, K., Zbiek, R. M., Cannon, T., Bonafini, F. & Kinol, D. (April, 2013). *Connecting teacher understanding of mathematics and classroom opportunities*. Paper presented at the National Council of Teachers of Mathematics (NCTM) Research Presession, Denver, CO.

Zbiek, R. M., Cannon, T., Johnson, K., & Bonafini, F. (January, 2013). *Teaching procedures well: Observing and supporting prospective teacher development through representations, justifications, generalizations, and definitions*. Presentation at the The Annual Conference of the Association of Mathematics Teacher Educators (AMTE). Orlando, FL.

Cannon, T. (October, 2012). *When am I ever going to use this? Connecting collegiate and secondary mathematics*. Presentation at the Pennsylvania Council of Teachers of Mathematics Annual Meeting, Harrisburg, PA.

Cannon, T., & Freeburn, B. (November, 2011). *How to engage preservice mathematics teachers with a task implementation cycle*. Presentation at the Pennsylvania Council of Teachers of Mathematics Annual Meeting, State College, PA.

Zbiek, R. M., Cannon, T., & Johnson, K. (April, 2011). *Understanding a beginning teacher's sensitivity to students and mathematics*. Paper presented at the NCTM Research Presession, Indianapolis, IN.

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Selected University Courses Taught

MTHED 277 *Task Design for Learning*, Brigham Young University, Provo, UT, Fall 2020, Winter 2021

MTHED 308 *Teaching with Tech*, Brigham Young University, Provo, UT, Fall 2020, Winter 2021

MTHED 377/8 *Math Teaching in Public Schools*, Brigham Young University, Provo, UT, Fall 2020, Winter 2021

MTHED 476 *Student Teaching in Math*, Brigham Young University, Provo, UT, Fall 2020, Winter 2021

MATH 3010, 3020 *Math for Secondary Education I & II*, Southern Utah University, Cedar City, UT, 2018-2020

Designed and created curriculum materials for two prospective secondary teacher courses focused on mathematical knowledge for teaching. Topics included number and operation, proportional reasoning, expressions and equations, functions and modeling, transformational geometry, measurement, probability, and variability in statistics.

MATH 1050 *College Algebra* (4 hours) Southern Utah University, Cedar City, UT, 2018-2020

MATH 1010 *Intermediate Algebra* (5 hours) Southern Utah University, Cedar City, UT, Spring 2019

MTHED 427 *Teaching Mathematics in Technology-Intensive Environments* (3 hours) The Pennsylvania State University, University Park, PA, Fall 2011 (mentored under Dr. Rose Mary Zbiek), Spring 2012

Course focused on using different kinds of mathematical technology tools for teaching and learning mathematics. Mathematical software included dynamic geometry environment, computer algebra systems, and statistical analysis software. Mathematical topics used to explore learning and teaching with technology included geometry, algebra, and statistics.

MTHED 476 *Secondary Student Teaching* (12 hours) Brigham Young University, Provo, UT, Spring 2008

Supervised a cohort of four secondary student teachers in public school settings. Focused on using reflection in cohort meetings to facilitate lesson planning, implementation of tasks, and utilizing and assessing student thinking.

MTHED 305 *Basic Concepts of Mathematics* (3 hours) Brigham Young University, Provo, UT, Spring 2007

Mentored with Dr. Jacqueline Voyles, Department of Mathematics Education. Course focused on developing deep understandings of elementary mathematics for prospective elementary teachers in topics related to whole numbers and whole number operations, number theory, integers and integer operations, geometry and measurement.

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MTHED 306 *Concepts of Mathematics* (3 hours) Brigham Young University, Provo, UT, Fall 2006

Mentored with Dr. Bob Speiser, Department of Mathematics Education. Course focused on developing deep understandings of elementary mathematics for prospective elementary teachers in topics related to fractions and fraction operations, probability, and early algebraic reasoning.

Professional Service

College Curriculum Committee Representative, 2020-present

College Internships/Career Placement Committee Representative, 2020-present

Department LOC/Curriculum/Program Committee Member, 2020-present

Walter Maxwell Gibson College of Science and Engineering Science Fair Committee Member, Spring 2019-2020

Undergraduate Mentor Coordinator for the Mathematics Department, Fall 2018-2020

Hiring Committee for the Mathematics Department, Spring 2019-2020

Mathematics Department Peer Consultation Committee, Spring 2019

Graduate Representative on the Executive Board for Pennsylvania Association of Mathematics Teacher Educators, Fall 2016-Spring 2017

Reviewer *Journal of Mathematics Teacher Education*

The Mathematics Teacher

Conferences for North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)

Research Session for National Council of Teachers of Mathematics (NCTM)

Recent Professional Organization Memberships:

National Council of Teachers of Mathematics (NCTM)

Utah Association of Mathematics Teacher Educators (UAMTE)