

Cannon

Curriculum Vitae
Tenille Cannon
 tcannon@mathed.byu.edu

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

Associate Teaching Professor of Mathematics Education, Brigham Young University, Provo, UT, 2024-present

Assistant Teaching Professor of Mathematics Education, Brigham Young University, Provo, UT, 2020-2024

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

Mathematics Teacher, State College Area High School, State College, PA, 2013-2018

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

Selected University Courses Taught

Brigham Young University, Provo, UT

MATH 110 *College Algebra*, Summer 2021, Winter 2026

MATH 112 *Calculus I*, Fall 2022-Fall 2023, Fall 2025-Winter 2026

MTHED 101 *Introduction to Mathematics Education*, Winter 2022, Winter 2026

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MTHED 277 *Task Design for Learning*, Fall 2020, Winter 2021, Fall 2022 - Fall 2024

MTHED 305 *Basic Concepts of Mathematics*, Fall 2021-Fall 2023

MTHED 306 *Concepts of Mathematics*, Winter 2024, Summer 2024, Winter 2025, Fall 2025

MTHED 308 *Teaching with Tech*, Fall 2020, Winter 2021, Summer 2021, Fall 2021, Summer 2022, Winter 2023, Fall 2024-Winter 2026

MTHED 377/8 *Math Teaching in Public Schools*, Fall 2020, Winter 2021, Winter 2022, Winter 2024, Fall 2024

MTHED 476 *Student Teaching in Math*, Fall 2020, Winter 2021, Fall 2021

Other Institutions

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 2010 *Math for Elementary Education I*, Southern Utah University, Cedar City, UT, 2020

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, 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

Journal Articles

Cannon, T., & Corey, D. L. (2025). Modeling Dynamic Quantities in Related Rates: A Lesson Analysis Manuscript. *PRIMUS*, 1-22.

Teuscher, D., Cannon, T., & Christensen, S. (2023). Secondary prospective mathematics teachers learning to notice and use a dual perspective of teaching. *School Science and Mathematics*, 123(7), 309-323. <https://doi.org/10.1111/ssm.12632>

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 <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

Christensen, S. & Cannon, T. (March 22, 2025). *Learning to mentor student teachers*. Presentation at the Annual Meeting of the Utah Association of Teachers of Mathematics (UAMTE), Price, Utah.

Leatham, K. R. & Cannon, T. (March 22, 2025). *Experience beyond practicum through Public School Outreach*. Presentation at the Annual Meeting of the Utah Association of Teachers of Mathematics (UAMTE), Price, Utah.

Siebert, D. K., Tanner, A. J., Cannon, T. & Luckau, K. (January 29, 2025). *Developing meaning for the equal sign across grades K-12*. Presentation at Utah Council of Teachers of Mathematics Annual Meeting (UCTM), Provo, Utah.

Cannon, T. & Christensen, S. (July 9, 2024). *Collaborative support for mentor teachers learning to teach student teachers*. Presentation at the 15th International Congress on Mathematics Education (ICME-15), Sydney, Australia.

Teuscher, D., & Cannon, T. (July 8, 2024). *Learning to move between a student lens and a teacher lens*. Presentation at the 15th International Congress on Mathematics Education (ICME-15), Sydney, Australia.

Cannon, T. & Christensen, S. (January, 2024). *Strengthening student teachers through engaging pedagogy practices*. Presentation at the Utah Council of Teachers of Mathematics (UCTM) Conference, Provo, UT.

Cannon, T., Teuscher, D., & Christensen, S. (February, 2023). *Developing prospective mathematics teacher noticing through lesson debriefings*. Presentation at the Annual Conference of the Association of Mathematics Teacher Educators (AMTE). New Orleans, LA.

Christensen, S. & Cannon, T. (February, 2023). *Supporting mathematics mentor teachers through collaborative experiences*. Poster presentation at the Annual Conference of the Association of Mathematics Teacher Educators (AMTE). New Orleans, LA.

Cannon, T. (February, 2022). *Transforming functions with technology*. Presentation at the Utah Council of Teachers of Mathematics (UCTM) Conference, Kaysville, UT.

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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 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.

Internal Funding

HITS Grant, BYU College of Physical and Mathematical Sciences, April 2022, Training for Mathematics Mentor Teachers (\$7,782)

Course Development Project grant, BYU Faculty Center, February 2022, MTHED 305 Course Development (\$281.26)

Professional Service

BYU Citizenship

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Math 110 Coordinator, 2025-present

Department Public School Outreach Program, 2022-present

College Curriculum Committee Representative, 2020-2025

Department LOC/Curriculum/Program Committee Member, 2020-2025

College Internships/Career Placement Committee Representative, 2020-2022

Public School/External Service

Utah Association of Mathematics Teacher Educators President-elect, 2025-2026

BYU/Nebo Associates Meeting (invited presenter), January 2024

Math Mentoring Workshop for Public School Teachers, June 2022, June 2023, June 2024

Utah Association of Mathematics Teacher Educators Secretary, 2021-2023

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

Manuscript Reviewer (year indicates most recent review)

Mathematics Teacher Educator (2024)

School Science & Mathematics (2024)

International Congress on Mathematical Education (2023)

Mathematics Teacher: Learning & Teaching (2023)

Routledge Education (2021)

Research Session for National Council of Teachers of Mathematics (2019)

Journal of Mathematics Teacher Education (2017)

Conferences for North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA) (2016)

Recent Professional Organization Memberships:

National Council of Teachers of Mathematics (NCTM)

Association of Mathematics Teacher Educators (AMTE)

Utah Association of Mathematics Teacher Educators (UAMTE)