

CURRICULUM VITA

Angela S. Krebs

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1. Education

- Ph.D. – Department of Teacher Education** (Mathematics Education) **1999**
Michigan State University, East Lansing, MI
“Students’ Algebraic Understanding: A Study of Middle Grades Students’ Ability to Symbolically Generalize Functions” Advisor: Sandra Kay Wilcox
- M.A. – Department of Mathematics** (Mathematics Education) **1992**
Michigan State University, East Lansing, MI
- B.S. – Department of Mathematics** (Mathematics) **1988**
Michigan Technological University, Houghton, MI

2. Teaching and Research Interests

Teaching: Curriculum development and teaching of content and methods courses for elementary and secondary preservice teachers, in-service teachers, and developmental mathematics courses.

Research: Studying ways in which teachers help students learn mathematics with understanding through reasoning. Particularly, studying preservice teachers’ algebraic understanding, how rich mathematical tasks and their implementation helps learners develop strong mathematical understanding.

3. Employment History

- Associate Professor** **2006- present**
Department of Mathematics and Statistics
University of Michigan-Dearborn, Dearborn, MI
- Assistant Professor** **1999- 2006**
Department of Mathematics and Statistics
University of Michigan-Dearborn, Dearborn, MI
- Instructor** **1998 - 1999**
Department of Mathematics and Statistics
University of Michigan-Dearborn, Dearborn, MI
- Teaching Assistant** **1989 – 1991, 1996 – 1998**
Department of Mathematics and Department of Teacher Education
Michigan State University, East Lansing, MI
- Instructor** **1991 - 1993**
Department of Mathematics and Statistics
Baker College of Flint, Flint, MI
- High School Teacher** **1988 - 1989**
Department of Mathematics
Croswell-Lexington Community Schools, Croswell, MI

4. Teaching Activities

Teaching a range of courses: Mathematics for Elementary Teachers I, II, and III (Math 385/6/7); Algebra, Geometry, Probability and Statistics, Proportional Reasoning, Discrete Math, and Calculus for Teachers (Math 442/3/4/5/6/9); Methods of Teaching Elementary, and Secondary Mathematics (EDD 452/450); College Algebra and Studio (Math 104/1041)

Curriculum Development: *Math 1041, College Algebra Studio*. Designed, teach, and revise Math 1041 as a co-requisite course for students who placed into Math 090.

Attended Hub offering Small Changes: Course Improvement Studio

Program Revision: Revising teacher education program in response to MDE certification changes

Graduate/Undergraduate Student Supervision: Advising undergraduate future elementary and secondary teachers majoring or minoring in mathematics.

5. Research Activities

a) Recent Papers Published in Refereed Journals

Rathouz, M. M., Cengiz Phillips, N., & Krebs, A. S. (2023). Promoting Equitable PST Participation in Mathematical Discourse: Rough Drafts on an Asynchronous Discussion Board. *Mathematics Teacher Educator*, 11, 117–131. *Mathematics Teacher Educator*, 11, 117–131.

b) Conference Presentations

Rathouz, M. M., Krebs, A. S., & Cengiz Phillips, N. (2023, February). Increasing Preservice Teacher Participation in Mathematical Discourse through and Asynchronous Discussion Board. In *Association of Mathematics Teacher Educators Annual Conference*. Association of Mathematics Teacher Educators.

Rathouz, M. M., Krebs, A. S., & Cengiz Phillips, N. (2022, February). Developing PST Proportional Reasoning through Online Discussions. In *2022 Association of Mathematics Teacher Educators Annual Conference*. Association of Mathematics Teacher Educators.

Rathouz, M. M., Cengiz Phillips, N., & Krebs, A. S. (2022, February). PSTs Revising Rough Drafts to Learn Mathematics Online. In *2022 Association of Mathematics Teacher Educators Annual Meeting*. Association of Mathematics Teacher Educators.

6. Recent Selected Service

a) University Service

Student Non-Academic Code of Conduct Appeal Committee, (Winter 2023)

b) College Service

Member of CASL Academic Integrity Committee, (Fall 2020 – present)

Member of CASL Faculty Climate Committee, (2015 – Winter 2023)

c) Departmental Service

Member of the Developmental Mathematics Program, (Fall 2017 – present)

Member of the tenured-faculty group (Winter 2006 – present)

Chair of Mathematics Education Committee (2015 – present)

Member of Department Remedial Mathematics Committee (Winter 2023 – present)

d) Professional Service

Chair of Michigan Association of Mathematics Teacher Annual Conversations Among Colleagues, Dearborn, MI (March, 2024)

Member of the Michigan Department of Education Mathematics Standards Working Group to draft *Standards for the Preparation of Teachers of Middle Grades Mathematics (5-9 and 7-12 Education)*, (2018 – 2021)

Brighton Area Schools Board of Education, Trustee and Officer (2019 – present),

7. Recent Conference/Workshops Attended

Attended Content Methods Laboratory Classes from Teaching Works, University of Michigan, 40 hours, Ann Arbor, Michigan, Summer 2023