

Melissa Graham

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College of Science, Technology, Engineering, and Mathematics (CSTEM)
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EDUCATION

Washington State University. Pullman, Washington.
Ph.D. candidate, Mathematics and Science Education, expected May 2020.

Eastern Washington University. Cheney, Washington.
M.S., Mathematics, 2003.
Thesis: Classifying Finite Groups by their Order as a Product of Primes.

Eastern Washington University. Cheney, Washington.
B.A., Secondary Mathematics Education, 2001.
B.A., Physics, 2001.
Washington Initial Certificate, Secondary, 2001.

PROFESSIONAL INTERESTS

My research interests include mathematics teacher learning and culturally responsive pedagogy. In particular, I am interested in supporting preservice and practicing teachers develop pedagogical content knowledge alongside equitable teaching practices.

PROFESSIONAL EXPERIENCE

Eastern Washington University, 2004-present

Mathematics Faculty Coordinator for EWU in the High School, 2014 – present

Chair of Lecturers' Committee, Department of Mathematics, 2015 – present

Senior Lecturer, Department of Mathematics, 2010 – present

Mathematics Tutoring Lab Director, 2005 – 2013

Course Coordinator – Algebra Concepts, 2005 – 2009

Lecturer, Department of Mathematics, 2004 – 2010

Adjunct Instructor, Department of Mathematics, 2003-2004

Graduate Instructor, Department of Mathematics, 2001-2003

Duties and Responsibilities

Courses Taught: Math 420, K-8 Problem Solving; Math 211 and Math 212, Structures of Elementary Mathematics I and II; Math 161, Math 162, and Math 163, Calculus I-III; Math 231, Linear Algebra; Math 141 and Math 142, Precalculus I and II; Math 107, Mathematical Reasoning; Math 103 and Math 104, Basic and Intermediate Algebra.

Mentoring: Observations of EWU in the HS faculty occur once per course taught by the faculty member. Observations of approximately 12 on-campus lecturers occur once per year, with additional observations as needed. In addition to classroom observations, I provide curriculum resources as well as literature related to teaching and learning mathematics when requested or as a need for these resources becomes apparent.

Professional Development: I am the primary designer and facilitator of annual mathematics professional development for EWU in the HS teachers. This professional development is informed by both the mathematics education professional development literature and literature on adult learning.

Spokane Falls Community College, 2003-2004

Adjunct Instructor, Department of Mathematics, 2003-2004

Courses Taught: Math 104, Intermediate Algebra

REFERREED JOURNAL ARTICLES

Graham, M. & Lesseig, K. (in press). Back-Pocket Strategies for Argumentation. *Mathematics Teacher*.

PRESENTATIONS AND WORKSHOPS FACILITATED

Graham, M. (March, 2020). *Examining preservice mathematics teacher learning about equity*. Poster presented at GPSA, Pullman, WA, March 26, 2020.

Graham, M. (March, 2020). *Preservice mathematics teacher learning about equity*. Poster presented at WE-STEM Symposium, Cheney, WA, March 7, 2020.

- Lesseig, K. & Graham, M. (October, 2019). *Strategies to promote mathematical argumentation that builds content understandings*. The Northwest Mathematics Conference, Tacoma, WA October 10-12, 2019.
- Graham, M. (2019, August). Keynote speaker (invited). *Success in college: Tips for students and parents*. EWU Running Start Orientation, Cheney, WA.
- Graham, M. (2018, April). Math activity facilitator (invited). *Lessons Taught, Lessons Learned*. EWU Department of Mathematics, Cheney, WA.
- Graham, M. & Larios, T. (November, 2018). *Professional development for dual credit mathematics teachers: Research to practice*. National Alliance of Concurrent Enrolment Partnerships (NACEP) Annual Conference, San Antonio, TX November 4-6, 2018.
- Graham, M. (August, 2018). Keynote speaker (invited). *Success in college: Tips for students and parents*. EWU Running Start Orientation, Cheney, WA August 27-31, 2018.
- Graham, M., & Roth McDuffie, A. (February, 2018). *Using complex instruction to support equitable practices in mathematics professional development*. The Globalization, Diversity, and Education Conference, Airway Heights, WA February 22-23, 2018.
- Graham, M. & Lesseig, K. (March, 2017). *Examining teacher learning through Mathematics Studio*. Poster presented at WSU Showcase, Pullman, WA, March 31, 2017.
- Graham, M., & Lynn, K. (October, 2016). *What the standards for mathematical practice look like in a college classroom*. The Northwest Mathematics Conference, Yakima, WA October 21-23, 2016.
- Alvin, B., Lane, J., Coomes, J., & Graham, M. (May, 2011). *Strategies for improving students' motivation and learning in developmental and first college mathematics courses*. Assessment, Teaching, and Learning Conference, Spokane, WA.
- Gentle, R. & Graham, M. (October, 2010). *Archimedean Solids*. The Northwest Mathematics Conference, Spokane, WA.

SERVICE

- Mathematics Teaching in the Middle School*, Referee, 2017-2019
- EWU Mathematics Faculty Representative*, Pathways to Calculus Meeting, 2017
- Lecturer Committee*, Department of Mathematics, Chair, 2015-present
- Honors Advisory Board*, Member, Eastern Washington University, 2010-2012

General Education Coordinating Committee (GECC), Member at the Department level, 2005-2013

Ad Hoc Student Success Committee, Mathematics Department, Convener, 2010-2012

Lecturer Search Committee, Mathematics Department, Member, 2007, 2012, 2015, 2018

HONORS

Three Minute Thesis Competition (second place), 2020

Chairs' Excellence Award for Special Faculty, 2015.

Faculty Coordinator of the Year – EWU in the High School, 2015.

QSI Excellence in Quality Service Award (for my role as Director of the Mathematics Tutoring Lab), 2008.

Frances B. Huston Medallion Award, 2001. This is a faculty-nominated honor for undergraduates awarded to 20 graduating students at Eastern Washington University each year. Recipients are considered leaders in service at Eastern or in the community who also have achieved academic excellence.

PROFESSIONAL ORGANIZATIONS

American Educational Research Association

Association of Mathematics Teacher Educators

National Council of Teachers of Mathematics

North American Chapter of the International Group for the Psychology of Mathematics Education