Ellen Beth Couvillion
Texas State University
Associate Professor of Instruction
Department of Mathematics
ebr21@txstate.edu

Professional Positions

Associate Professor of Instruction, Texas State University. (September 1, 2024 - Present).

HSMC- Python Teacher, Mathworks at Texas State. (June 2024 - Present).

Faculty partner, Cengage Learning. (January 2024 - Present).

HSMC- Honors Seminar Teacher, Mathworks at Texas State. (June 2017 - Present).

Junior Summer Math Camp- Master Teacher, Mathworks at Texas State. (June 2016 - Present).

Senior Lecturer, Texas State University. (September 1, 2020 - August 31, 2024).

Researcher- Professional Development, Texas State University. (June 2020 - June 2021).

Lecturer, Texas State University. (August 2017 - August 31, 2020).

Junior Summer Math Camp- Researcher, Mathworks at Texas State. (June 2016 - July 2019).

Graduate Teaching Assistant, Texas State University. (January 2017 - May 2017).

Graduate Instructional Assistant, Texas State University. (January 2016 - December 2016).

Education

MS, Texas State University, 2017.
Major: Mathematics

BS, Texas State University, 2015.
Major: Mathematics

Professional Memberships

Pi Mu Epsilon (Texas Rho Chapter). (2013 - Present).

Awards and Honors

Service Excellence Award, Department of Mathematics, Texas State University. (December 2024).

Favorite Professor, Alpha Chi National College Honor Society. (April 2024).

Teaching Excellence Award, Department of Mathematics. (December 4, 2020).

Favorite Professor, Alpha Chi National College Honor Society. (April 2019).

Faculty Development Activities Attended

Continuing Education Program, "Course Transformation Project TXST (College Algebra)," Faculty Success TXST. (May 2025 - December 2025).

Workshop, "Dynamic Assessment Strategies with Top Hat," Texas State University. (September 16, 2025).

Workshop, "AI for Everyday Teaching," Texas State University. (September 4, 2025).

Workshop, "Top Hat: Getting Started." (May 3, 2023).

University Service

Course Coordinator, College Algebra (MATH 1315) (January 2026 - Present).

Member, Scheduling Oversight Committee. (October 2024 - Present).

Member, Calculus II Forum. (August 2024 - Present).

Member, Committee on Committees. (November 2023 - Present).

Member, Student Affairs Committee. (August 2023 - Present).

Organizer, Calculus Bee. (March 31, 2023 - Present).

Advisor, Pi Mu Epsilon (Texas Rho Chapter). (August 2022 - Present).

Advisor, Knitting and Crochet Club at Texas State. (August 2020 - Present).

University Mentor, Faculty Mentor. (August 2020 - Present).

Organizer, College Algebra Teaching Forum. (November 2019 - Present).

Member, Calculus I Forum. (January 2018 - Present).

Organizer, Talk Math 2 Me. (September 2017 - Present).

Publications

Rusnak, L. J., Shroff, P. R., Couvillion, E. B., & Schmidt, M. (2019). Oriented Hypergraphic Matrix-tree Type Theorems and Bidirected Minors via Boolean Order Ideals. *Journal of Algebraic Combinatorics*, *49*(4), 461–473. https://doi.org/https://doi.org/10.1007/s10801-018-0831-5

Rusnak, L. J., Couvillion, E. B., Chen, G., Liu, V., & Wang, K. (2018). A Characterization of Oriented Hypergraphic Laplacian and Adjacency Matrix Coefficients. *Linear Algebra and Its Applications*, *556*, 323–341. https://doi.org/https://doi.org/10.1016/j.laa.2018.07.012

Couvillion, E. B., Cui, X., Warshauer, H. K., & Koehne, C. (2018). Collaboratively engaging with GCFs and LCMs. *Mathematics Teaching in the Middle School*, *24*, 53–58.

Couvillion, E. B., Cui, X., Namakshi, N., Warshauer, H. K., & Koehne, C. (2018). Abacus Interactive. *Mathematics Teaching in the Middle School*, *23*(March), 288–297.

Presentations

Couvillion, E. B., AMS Sectional Meeting, "Generalizations of Graph Theory," Denton, TX, United States. (2017).

Research Activity

"Examining professional development that integrates preservice and in-service teachers associated with a math camp" (On-Going).

Teaching Experience

MATH 2472, section H51, CALCULUS II. 4.00 credit hours.

MATH 1315, section 353, COLLEGE ALGEBRA. 3.00 credit hours.

US 1100, section 471, UNIVERSITY SEMINAR. 1.00 credit hours.

MATH 2471, section H01, CALCULUS I. 4.00 credit hours. 21 enrolled.

MATH 2471, section HL1, CALCULUS I. 0.00 credit hours. 21 enrolled.

MATH 1315, section 002, COLLEGE ALGEBRA. 3.00 credit hours. 382 enrolled.

MATH 1315, section 034, COLLEGE ALGEBRA. 3.00 credit hours. 48 enrolled.

MATH 1316, section P02, SURVEY OF CONTEMPORARY MATH. 3.00 credit hours. 36 enrolled.

US 1100, section 042, UNIVERSITY SEMINAR. 1.00 credit hours. 30 enrolled.

US 1100, section 086, UNIVERSITY SEMINAR. 1.00 credit hours. 27 enrolled.

MATH 2472, section 257, CALCULUS II. 4.00 credit hours. 39 enrolled.

MATH 2472, section 265, CALCULUS II. 4.00 credit hours. 41 enrolled.

MATH 2472, section L07, CALCULUS II. 0.00 credit hours. 39 enrolled.

MATH 2472, section L15, CALCULUS II. 0.00 credit hours. 41 enrolled.

MATH 1315, section 353, COLLEGE ALGEBRA. 3.00 credit hours. 167 enrolled.

US 1100, section 297, UNIVERSITY SEMINAR. 1.00 credit hours. 14 enrolled.

MATH 2471, section 016, CALCULUS I. 4.00 credit hours. 47 enrolled.

MATH 2471, section L16, CALCULUS I. 0.00 credit hours. 47 enrolled.

MATH 2472, section 007, CALCULUS II. 4.00 credit hours. 45 enrolled.

MATH 2472, section L07, CALCULUS II. 0.00 credit hours. 45 enrolled.

MATH 1315, section 003, COLLEGE ALGEBRA. 3.00 credit hours. 379 enrolled.

US 1100, section 181, UNIVERSITY SEMINAR. 1.00 credit hours. 28 enrolled.

US 1100, section 222, UNIVERSITY SEMINAR. 1.00 credit hours. 25 enrolled.

MATH 2471, section 252, CALCULUS I. 4.00 credit hours. 44 enrolled.

MATH 2471, section 259, CALCULUS I. 4.00 credit hours. 44 enrolled.

MATH 2471, section L52, CALCULUS I. 0.00 credit hours. 44 enrolled.

MATH 2471, section L59, CALCULUS I. 0.00 credit hours. 44 enrolled.

MATH 1315, section 355, COLLEGE ALGEBRA. 3.00 credit hours. 165 enrolled.

US 1100, section 311, UNIVERSITY SEMINAR. 1.00 credit hours. 10 enrolled.

MATH 2471, section 003, CALCULUS I. 4.00 credit hours. 40 enrolled.

MATH 2471, section 016, CALCULUS I. 4.00 credit hours. 34 enrolled.

MATH 2471, section L03, CALCULUS I. 0.00 credit hours. 40 enrolled.

MATH 2471, section L16, CALCULUS I. 0.00 credit hours. 34 enrolled.

MATH 1315, section 003, COLLEGE ALGEBRA. 3.00 credit hours. 384 enrolled.

US 1100, section 201, UNIVERSITY SEMINAR. 1.00 credit hours. 30 enrolled.

MATH 2471, section 253, CALCULUS I. 4.00 credit hours. 38 enrolled.

MATH 2471, section 261, CALCULUS I. 4.00 credit hours. 38 enrolled.

MATH 2471, section L53, CALCULUS I. 0.00 credit hours. 38 enrolled.

MATH 2471, section L61, CALCULUS I. 0.00 credit hours. 38 enrolled.

MATH 1315, section 355, COLL ALGEBRA. 3.00 credit hours. 174 enrolled.

MATH 2471, section 003, CALCULUS I. 4.00 credit hours. 29 enrolled.

MATH 2471, section 016, CALCULUS I. 4.00 credit hours. 26 enrolled.

MATH 2471, section L03, CALCULUS I. 0.00 credit hours. 29 enrolled.

MATH 2471, section L16, CALCULUS I. 0.00 credit hours. 26 enrolled.

MATH 1315, section 003, COLL ALGEBRA. 3.00 credit hours. 386 enrolled.

MATH 1316, section P08, SURV CONTEMP MATH. 3.00 credit hours. 38 enrolled.

MATH 2471, section 253, CALCULUS I. 4.00 credit hours. 20 enrolled.

MATH 2471, section 261, CALCULUS I. 4.00 credit hours. 27 enrolled.

MATH 2471, section L53, CALCULUS I. 0.00 credit hours. 20 enrolled.

MATH 2471, section L61, CALCULUS I. 0.00 credit hours. 27 enrolled.

MATH 1315, section 355, COLL ALGEBRA. 3.00 credit hours. 151 enrolled.

MATH 2471, section 001, CALCULUS I. 4.00 credit hours. 16 enrolled.

MATH 2471, section 002, CALCULUS I. 4.00 credit hours. 27 enrolled.

MATH 2471, section L01, CALCULUS I. 0.00 credit hours. 16 enrolled.

MATH 2471, section L02, CALCULUS I. 0.00 credit hours. 27 enrolled.

MATH 1315, section 003, COLL ALGEBRA. 3.00 credit hours. 367 enrolled.

MATH 2471, section 254, CALCULUS I. 4.00 credit hours. 28 enrolled.

MATH 2471, section 261, CALCULUS I. 4.00 credit hours. 28 enrolled.

MATH 2471, section L54, CALCULUS I. 0.00 credit hours. 28 enrolled.

MATH 2471, section L61, CALCULUS I. 0.00 credit hours. 28 enrolled.

MATH 1315, section 359, COLL ALGEBRA. 3.00 credit hours. 164 enrolled.

MATH 2471, section 008, CALCULUS I. 4.00 credit hours. 30 enrolled.

MATH 2471, section 015, CALCULUS I. 4.00 credit hours. 30 enrolled.

MATH 2471, section L08, CALCULUS I. 0.00 credit hours. 30 enrolled.

MATH 2471, section L15, CALCULUS I. 0.00 credit hours. 30 enrolled.

MATH 1315, section 002, COLL ALGEBRA. 3.00 credit hours. 381 enrolled.

MATH 1315, section 761, COLL ALGEBRA. 3.00 credit hours. 32 enrolled.

MATH 1315, section 359, COLL ALGEBRA. 3.00 credit hours. 167 enrolled.

MATH 1315, section 365, COLL ALGEBRA. 3.00 credit hours. 16 enrolled.

MATH 1315, section N64, COLL ALGEBRA. 3.00 credit hours. 23 enrolled.

MATH 2417, section 264, PRE-CALCULUS MATH. 4.00 credit hours. 38 enrolled.

MATH 2417, section L64, PRE-CALCULUS MATH. 0.00 credit hours. 38 enrolled.

MATH 1315, section 023, COLL ALGEBRA. 3.00 credit hours. 168 enrolled.

MATH 1329, section 015, MATH BUS & ECO II. 3.00 credit hours. 44 enrolled.

MATH 1329, section 018, MATH BUS & ECO II. 3.00 credit hours. 39 enrolled.

MATH 2471, section 251, CALCULUS I. 4.00 credit hours. 32 enrolled.

MATH 2471, section 252, CALCULUS I. 4.00 credit hours. 34 enrolled.

MATH 2471, section L51, CALCULUS I. 0.00 credit hours. 32 enrolled.

MATH 2471, section L52, CALCULUS I. 0.00 credit hours. 34 enrolled.

MATH 1315, section N64, COLL ALGEBRA. 3.00 credit hours. 35 enrolled.

MATH 1315, section P81, COLL ALGEBRA. 3.00 credit hours. 25 enrolled.

MATH 2331, section 001, CALC LIFE SCI II. 3.00 credit hours. 17 enrolled.

MATH 1315, section 011, COLL ALGEBRA. 3.00 credit hours. 158 enrolled.

MATH 2417, section 011, PRE-CALCULUS MATH. 4.00 credit hours. 36 enrolled.

MATH 2417, section 013, PRE-CALCULUS MATH. 4.00 credit hours. 37 enrolled.

MATH 2417, section L11, PRE-CALCULUS MATH. 0.00 credit hours. 36 enrolled.

MATH 2417, section L13, PRE-CALCULUS MATH. 0.00 credit hours. 37 enrolled.

MATH 2471, section 251, CALCULUS I. 4.00 credit hours. 33 enrolled.

MATH 2471, section 253, CALCULUS I. 4.00 credit hours. 35 enrolled.

MATH 2471, section L51, CALCULUS I. 0.00 credit hours. 33 enrolled.

MATH 2471, section L53, CALCULUS I. 0.00 credit hours. 35 enrolled.

MATH 1329, section 255, MATH BUS & ECO II. 3.00 credit hours. 38 enrolled.

MATH 1329, section 276, MATH BUS & ECO II. 3.00 credit hours. 38 enrolled.

MATH 2321, section 004, CALC LIFE SCI I. 3.00 credit hours. 40 enrolled.

MATH 1315, section 007, COLL ALGEBRA. 3.00 credit hours. 14 enrolled.

MATH 1315, section 010, COLL ALGEBRA. 3.00 credit hours. 13 enrolled.

MATH 1315, section 013, COLL ALGEBRA. 3.00 credit hours. 38 enrolled.

MATH 1315, section N32, COLL ALGEBRA. 3.00 credit hours. 21 enrolled.

MATH 1315, section N33, COLL ALGEBRA. 3.00 credit hours. 23 enrolled.

MATH 1315, section 270, COLL ALGEBRA. 3.00 credit hours. 35 enrolled.