COURSE SYLLABUS

EDUC 4313.001
Fall 2026
Teaching Mathematics in the Middle and High School

Semester: Fall 2026

Time: 4:30-5:50 PM

Days: Mondays

Location: BEP 213

Instructor Information: Josh Loeffler

Office Hours: In-Person- Mondays 5:50-6:50 PM in BEP 213

Online- Tuesdays and Thursdays 7:00-8:00 PM by Appointment

E-mail: jloeffler@uttyler.edu

Course Catalog Description: Study of mathematics curriculum, materials, and selected instructional techniques in the middle and high school. Prerequisites: Successful completion of all Phase II courses.

Student Learning Outcomes & Assessments Course Topics and/or Student Learning Outcomes **The student is expected to…**	**Assessment (including performance-based)**	**Standards Alignment**
Demonstrate an understanding of teaching mathematics in the middle and high school classrooms	Homework/Quizzes Exams Professional Mathematics Teaching Portfolio	TEKS (b) (1): Mathematical process standards Middle School TEKS (c) (1): Mathematical process standards High School TES: 1bi, 1bii, 1biii, 1ci, 1ciii; 2bi, 2bii, 2biii, 2ci, 2ciii; 3aii, 3aiii, 3bi, 3bii, 3biii, 3ci, 3cii. INTASC Standards: 1, 2, 4, 5 and 8
Demonstrate an understanding of mathematical processes and reasoning	Homework/Quizzes Exams Professional Mathematics Teaching Portfolio	TEKS (b/c) (1): Mathematical process standards Middle and High School TES: 3A, 3C INTASC Standards: 4, 5

Solve mathematical problems and make connections within and outside of mathematics	Homework/Quizzes Exams Professional Mathematics Teaching Portfolio	TEKS (b) (1): Mathematical process standards Middle School TEKS (c) (1): Mathematical process standards High School TES: 3A, 3C INTASC Standards: 4, 5
Garner information about and assess middle and high school grades students' mathematical thinking	Homework/Quizzes Exams Professional Mathematics Teaching Portfolio	TEKS (b) (1): Mathematical process standards Middle School TEKS (c) (1): Mathematical process standards High School Texas Educator Standards: 5ai, 5aii INTASC Standards: 6

Evaluation and Grading

Grading is based on the total number of points accumulated by each student at the end of the semester for all evaluations including class activities, assignments, and exams.

Assignments and point values are subject to change. Canvas will have all assignment details.

A = 90-100% B = 80-89% C = 70-79% D = 60-69% F = 0-59%

Last Day to Withdraw from Courses: October 30th, 2026

Communication

My preferred method of communication is email. I will endeavor to reply to all emails within 24 hours during weekdays and by the next weekday on weekend correspondence, if not sooner.

Required Books

Teaching Math with Examples (Pershan 2021) ISBN-13: 978-1913622480

Building Thinking Classrooms in Mathematics, Grades K-12 (Liljedahl 2020) ISBN-13: 978-1544374833

Suggested Book

Sweller's Cognitive Load Theory in Action (Lovell 2020) ISBN-13: 978-1913622237

Course Policies

- **Attendance:** You are expected to attend every scheduled class. If you are not present in class you will not receive credit for any in-class assignments, discussions, or activities. There will be no make-up activities or exams for this course unless absence is due to an emergency, with appropriate documentation.
- **Participation:** Participation is imperative to success in this course. Students are expected to regularly review Canvas, check email, and contribute to course assignments.
- **Written Assignments:** Written assignments must be typed using double spaced lines and should reflect a professional quality in terms of scope, depth, writing mechanics, and appearance. Proofread all assignments as only materials with minimal or no errors will receive high scores. Type assignments in an easily readable 12-point font (e.g. Times New Roman, Arial, Calibri).
- **Late Work:** No late assignments will be accepted unless prior arrangements have been made with the professor. All late assignments or non-submitted assignments will receive a score of zero points. Due dates will be found in Canvas, and all assignments will be submitted via Canvas.
- **Academic Dishonesty:** Students need to use their own words when completing all assignments. A zero will be given for any assignment that is detected as being plagiarized. Students are subject to a failing grade in the course if plagiarism is found. Using AI tools without appropriate acknowledgement and citation violates the UT Tyler's Honor Code and constitutes plagiarism. AI tools will not be permitted on assignments unless noted by the professor.
- **Canvas:** Students will access class notes, assignments, grades and course information through Canvas. Any changes to the course schedule, schedule of assignments, or any special assignments will be posted on Canvas. Students are expected to regularly check Canvas for updates and to download any class handouts.
- **Cell Phones and Technology:** Cell phones are not to be used in class. Laptops or tablets are to be used for class activities only.

School of Education Mission:

The School of Education prepares educators and leaders who transform lives through learning. Through excellence in teaching, scholarship, innovation, and partnership, we strengthen the educator workforce, advance educational opportunity, and improve outcomes for learners, schools, and communities across East Texas and beyond.

Texas Education Standards:

The School of Education are committed to teaching and implementing the Texas Educator Standards at the highest level. The School of Education faculty use the Texas Education Standards, along with the Interstate New Teacher Assessment and Support Consortium (InTASC) standards used by educator preparation programs throughout the United States.

The list of Texas Education Standards can be accessed: 19 TAC §149.1001 – Teacher Standards

The Code of Ethics and Standard Practices for Texas Educators can be accessed here.