

## Independent Study, MATH 5199

**Meeting Times:** This course will be online.

**Last day to withdraw:** Friday, July 10, 2026

**Instructor:** Nathan Smith

**Office:** RBN 4007

**Contact:** nsmith@uttyler.edu

**Office Hours:** Tentatively 10:30-11:30 M-F, other times by appointment.

**Text:** No text.

**Course Topics:** Study of mathematics curriculum, materials, and instructional techniques.

**Student Learning Outcomes:** By the end of the course students should be able to:

1. Demonstrate an understanding of mathematical processes and developing student thinking toward these processes.
2. Demonstrate an understanding of mathematical reasoning and developing student thinking toward this end.
3. Identify challenges and solutions in mathematics teaching.

**Grading:** During your time in the field you will be expected to turn in a weekly reflection (tentatively due each Friday by midnight). Collectively these will constitute 75% of your final grade. At the conclusion of your time in the field you will be required to give a presentation about your experience, what you learned, particularly with regard to the student learning outcomes above, and goals and challenges for the future. This presentation will constitute 25% of your final grade.

**Student Academic Conduct:** It is your responsibility to learn the material in this course for your own benefit. You should not let this discourage you from working together on your homework but in the end what you turn in should reflect your understanding, not just be copied from someone else. *During the tests, a code of honor will apply under which students are to work alone and neither give help to others nor receive help from any sources.* Students are also expected to help enforce this code. Students are encouraged to obtain a copy of *A Student Guide to Conduct and Discipline at UT Tyler*, available in the Office of Student Affairs.

**Artificial Intelligence:** UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in

UT Tyler's Honor Code. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course (see below) is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy.

For this course, you may not use AI tools to produce anything turned in for a grade.

**University Policies:** We will follow all University policies concerning Withdrawing from Class, Final Exams, Incomplete Grades, Grade Appeals, Disability/Accessibility Services, Military Affiliated Students, Academic Honesty and Academic Misconduct, FERPA, Covid, Absences, and Campus Carry. See canvas for details (<https://uttyler.instructure.com/courses/34488/pages/university-policies-and-information>).

## Course Outline

- Weekly reflections during your time in the field.
  - June 8-12
  - June 15-19
  - June 22-26
  - June 29 - July 3
  - July 6-10
  - July 13-17
  - July 20-24
  - July 27 - July 31
  - August 3-7
- Final presentation.