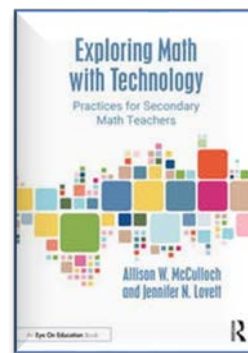


**THE UNIVERSITY OF TEXAS AT EL PASO**  
**COLLEGE OF SCIENCE**  
DEPARTMENT OF MATHEMATICAL SCIENCES

- Course Number:** MATM 5365-26868
- Course Title:** Technology in the Mathematics Classroom
- Credit Hrs:** 3
- Term:** Spring 2024
- Course Meetings & Location:** Asynchronous Online Learning  
Thurs 6:30PM – 8:00 PM (Bell Hall 130)
- Prerequisite Courses:** Departmental Approval
- Course Fee: (if applicable)** None
- Instructor:** Kien Lim
- Office Location:** Bell Hall 301
- Contact Info:** E-mail Address: [kienlim@utep.edu](mailto:kienlim@utep.edu)  
Office Phone: (915) 747-6772  
Fax Number: (915) 747-6502  
Emergency Contact: (915) 747-5761
- Office Hours:** 3:30 PM – 4:30 PM Tuesday  
1:30 PM – 2:30 PM Thursday  
By appointment via Zoom: <https://tinyurl.com/zoomKienLim>
- Course Description** An introduction to technology used in mathematics education such as graphing calculators, computer algebra systems, course-specific software and the use of the internet, and an exploration of its appropriate and effective use in the mathematics classroom.
- Course Objectives:** Students will
- Recognize different types of technology and their roles in mathematical teaching and learning
  - Differentiate between conveyance technologies and math action technologies
  - Enhance their ability to use technology in their classroom to support mathematical thinking and conceptual understanding
  - Learn how to implement the *5 Practices for Orchestrating Productive Mathematical Discussions* with a technological tool
  - Explore, analyze, and discuss issues, tradeoffs, pitfalls, and logistics associated with the use of a certain technological tool
  - Learn classroom technology integration frameworks such as SAMR and TPaCK
  - Explore the impact of AI on the teaching and learning of math

**Textbook(s), Materials:** Required Text  
*Exploring Math with Technology Practices for Secondary Math Teachers* By Allison W. McCulloch, Jennifer N. Lovett (2023)  
ISBN 9781032298375



Online Text:  
[Preparing to Teach Mathematics with Technology \(ncsu.edu\)](https://www.ncsu.edu/teaching-math-with-technology/)

- *Teaching Algebra*
- *Teaching Geometry*

**Activities/Assessments:** Class Participation (10%)

- Attend class meetings (attendance will be taken)
- Prepare for and participate in class discussion

Assignments (15%)

- Complete a weekly assignment by Mon 11pm

Discussion board (15%)

- Create a thread for each discussion forum on Blackboard by Sun 11pm.
- Read all classmates' responses and reply to at least two responses by Tues 11pm.
- Prepare for class discussion on Thurs.

Quizzes & Exam (30%)

- Take an online quiz via Respondus Lockdown on Tues 7pm - 11pm. Quizzes assess your comprehension of assigned readings.
- You take one comprehensive exam towards the end of the semester.

Projects & Presentations (30%)

- Projects and presentations are opportunities for you to demonstrate your mastery of the content

**Important Dates:** Census Day (Last day to drop without a "W") Jan 31  
Course Drop Deadline (Last day to drop with a "W") Mar 28

**Make-up Policy:**

- There will be no make-up for assignments and assessments. The lowest score of your quizzes will be dropped to allow for one missed quiz
- If you should miss the exam, the possibility of a make-up will be determined on an individual basis. If you cannot provide documentation to support your reason, your exam grade will be counted as the missed-exam grade.

**Attendance Policy:** Attendance will be taken.

**Incomplete Grade Policy:** All grades of Incomplete must be accompanied by an Incomplete Contract that has been signed by the instructor of record, student, departmental chair, and the dean. The College of Science allows a period of one month to complete this contract. A grade of Incomplete is only used in extraordinary circumstances confined to a limited event such as a missed exam, project, or lab. If the student has missed a significant amount of work (e.g. multiple assignments or tasks), a grade of Incomplete is not appropriate or warranted.

**Academic Integrity Policy:** Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Refer to the UTEP's Policy at <http://sa.utep.edu/osccr/academic-integrity/>.

**Accommodation Policy:** UTEP is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the [UTEP Center for Accommodations and Support Services \(CASS\)](#). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at [cass@utep.edu](mailto:cass@utep.edu), or apply for accommodations online via the [CASS portal](#).

**Services & Resources:** [Help Desk](#)  
Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.

[UTEP Library](#)

Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.

[University Writing Center \(UWC\)](#)

Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources.

[RefWorks](#)

A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.

[Military Student Success Center](#)

Assists personnel in any branch of service to reach their educational goals.

[Center for Accommodations and Support Services](#)

Assists students with ADA-related accommodations for coursework, housing, and internships.

[Counseling and Psychological Services](#)

Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.