

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

Course Number: MATM 3304 (CRN 12592)

Course Title: Fundamentals/Geometry from an Advanced Standpoint

Credit Hours: 3

Term: Fall 2024

Course Type: Hybrid

- 50% in-person (LART 207; Tuesdays 4:30 PM - 6:20 PM)
- 50% asynchronous online

Prerequisite Courses: MATH 1508 or 1411, and MATH 2304  
each with a grade of "C" or better

Instructor: Kien Lim (He/Him)

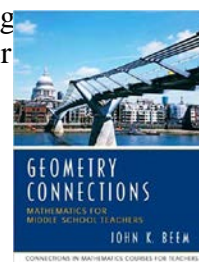
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Office Hours: 4:00 PM – 5:00 PM Mondays (via Zoom)  
3:00 PM – 4:00 PM Tuesdays  
By appointment via Zoom: <https://tinyurl.com/zoomKienLim>

Course Description An axiomatic treatment of Euclidean geometry including some historical perspectives. Informal treatment of other geometries such as distance and hyperbolic geometry.

Textbook: *Geometry Connections: Mathematics for Middle School Teachers* by John K. Beem. Boston: Pearson.



Course Objectives: Students will

- read and understand math texts
- investigate shapes, measures, properties, and relationships
- conceive mathematics as a problem-solving endeavor that involves visualizing, investigating, and analyzing
- develop the habit of attending to meaning, analyzing problem situations, making conjectures, and providing justifications
- develop good learning skills like using GenAI to support learning, understand concepts or solutions, make connections, and prepare for exams
- cultivate a growth mindset where the focus is learning and effort

- Coursework:**
- This course uses the flipped instructional model.
  - You learn some materials ahead of time:
    - reading the textbook and using GenAI to clarify your understanding
    - watching math videos and answering embedded questions (join at <https://edpuzzle.com/join/waiwsiw>)
  - During class meetings, you ask questions to affirm your understanding, take an in-class assessment, apply your knowledge to solve problems, work in groups, give presentations, and engage in class discussions.
  - You are expected to put in an average of 9 hours per week for a 3-credit hour course.

- Course Structure:** Asynchronous work (Sat - Mon)
- Complete online work on OneNote Class Notebook by Monday 11 pm
  - Add 1-2 entries to your reflection log

**In-class Meetings (Tues)**

- Review last week's homework
- Take an in-class assessment
- Math activities to build on concepts learned in asynchronous work or to introduce math concepts

**Homework (Wed - Fri)**

- Complete homework on OneNote Class Notebook by Friday 11pm
- May work collaboratively but must write in your own words.

**Presentations**

- Each group will give 4-5 presentations to help classmates understand a particular topic/concept.

**Exams**

- Exam items are designed to assess your understanding of the concepts and application of your understanding.
- You are allowed to use a scientific calculator.
- Since the final exam is comprehensive, you are allowed a cheat sheet (8½-by-11) with notes on both sides.

- Grading Scheme:** Online Work & Homework (30%)  
 Presentations & Reflection Log (10%)  
 In-class Assessments (10%)  
 Mid-term Exam (15%)  
 Final Exam (35%)

To compensate for the higher-cognitive demand in assessments and exams, the following scale is used:

A	≥ 80%
B	70% - 80%
C	60% - 70%
D	45% - 60%
F	< 45%

**Tentative Schedule:**

<b>Weeks</b>	<b>Sections</b>	<b>Topics</b>
1 – 3	1.1, 1.2	Euclid's Postulates & Logic
4 – 6	1.3	Measurements & Conversions
7 – 9	2.1, 3.1, 3.4	Congruent & Similar Triangles
10 – 12	4.1, 4.2	Rigid Motions & Transformations
13 – 15	4.1, 4.2, 3.4	Transformations & Coordinate Geometry

**Important Dates:** Census Day (Last Day to Drop without W): Sep 11  
Course Drop Deadline (Last Day to Drop with a “W”): Nov 1

If you feel that you can’t complete the course successfully, please let me know and then contact the [Registrar’s Office](#) to initiate the drop process. Otherwise, you are at risk of receiving an “F” for the course.

**Culture-of-Care Statement:** UTEP espouses a culture of care and excellence. In this course, I strive to model kindness and do my best to support your learning while maintaining high expectations and learning outcomes.

**Make-up:**

- The lowest scores of your online work, homework, and assessment will be dropped because there will be no make-up.
- If you should miss the exam, the possibility of 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:** Attendance will be taken. Be punctual. If you are late for class, you will not be given extra time to complete your quiz.

**Use of AI:** You are encouraged to AI to assist you in learning and understanding math. We'll explore how to use AI responsibly and ethically, while still valuing the importance of hard work and critical thinking. Remember, understanding the math is key – AI can assist, but it's your brainpower that truly shines. Let's work together to learn and grow in this exciting digital age!

**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:** Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#).

**Copyright Statement for Course Materials:** All materials used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. They may not be further disseminated.

**Accommodation Policy:** The University 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.

[Math Tutoring Center \(MaRCS\)](#)

Ask a tutor for help and explore other available math resources.

[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.