Course Number: MATM 3304 (CRN 13020)
Course Title: Fundamentals/Geometry from an Advanced Standpoint
Credit Hours: 3
Term: Fall 2023
Course Type: Hybrid
  • 50% Asynchronous online
  • 50% in-person (LART 405A; Tuesdays 4:30 PM - 6:20 PM)
Prerequisite Courses: MATH 1508 or 1411, and MATH 2304 each with a grade of "C" or better
Instructor: Kien Lim (He/Him)
Office Location: Bell Hall 301
Contact Info: E-mail Address: kienlim@utep.edu
Office Phone: (915) 747-6772
Emergency Contact: (915) 747-5761
Office Hours: 3:00 PM – 4:00 PM Tuesdays (Bell Hall 301)
  4:30 PM – 5:30 PM Thursdays (Zoom at 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.
Course Objectives: Students will
  • read and understand math texts
  • investigate and explore 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 posing questions, making connections, creating notes, and using representations
  • use technology, such as GeoGebra, to investigate ideas, generate conjectures, and solve problems
  • cultivate a growth mindset where the focus is learning and effort rather than looking good
  • reflect on one’s learning and thinking, find ways to overcome challenges, and build self-confidence
**Coursework:**

- This course uses the flipped instructional model.
- You learn some materials ahead of time:
  - reading the textbook
  - working on online activities in Desmos (join at [https://student.desmos.com/?prepopulateCode=9uy9xt](https://student.desmos.com/?prepopulateCode=9uy9xt))
  - watching math videos and answering embedded questions (join at [https://edpuzzle.com/join/sooleme](https://edpuzzle.com/join/sooleme)).
- During class meetings, you ask questions to affirm your understanding, take an in-class assessment, apply your knowledge to solve problems, present solutions, work in groups, 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
    - Read and understand the assigned texts
    - Watch Edpuzzle videos and answer embedded questions
    - Answer questions on OneNote Class Notebook
  - Take an online quiz via Respondus Lockdown Browser on Mon 7-11 pm

- In-class Meetings (Tues)
  - Review last week’s homework
  - Math activities to build on concepts learned in asynchronous work or to introduce math concepts
  - Take an in-class assessment

- Homework (Wed - Fri)
  - Complete homework on OneNote Class Notebook by Friday 11pm
  - May work collaboratively but must write in your own words. (If two responses are similar, then each response will only receive ½ of the score).

**Exams**

- Exam items are designed to assess your understanding of the concepts and application of your understanding (i.e., you need to think).
- 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:**

- Participation & Engagement (10%)
- Asynchronous work & Homework (35%)
- Online Quizzes & In-class Assessments (15%)
- Mid-term Exam (15%)
- Final Exam (25%)

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:

<table>
<thead>
<tr>
<th>Weeks</th>
<th>Chapter</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 4</td>
<td>1</td>
<td>Euclid’s Geometry</td>
</tr>
<tr>
<td>5 – 7</td>
<td>2</td>
<td>Congruent Figures</td>
</tr>
<tr>
<td>8 – 10</td>
<td>3</td>
<td>Similar Figures</td>
</tr>
<tr>
<td>11 - 13</td>
<td>4</td>
<td>Rigid Motions and Symmetry</td>
</tr>
<tr>
<td>14 – 15</td>
<td>6</td>
<td>Non-Euclidean Geometry</td>
</tr>
</tbody>
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Important Dates:
- Census Day (Last Day to Drop without W): Sep 13
- Course Drop Deadline (Last Day to Drop with a “W”): Nov 3

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.

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.

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 Policy:
- The lowest scores of your asynchronous 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.

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.
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, 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.