Course Number: MATM 3304 (CRN 15734)
Course Title: Fundamentals/Geometry from an Advanced Standpoint
Credit Hours: 3
Term: Fall 2021
Course Meetings & Location: Tuesdays & Thursdays 12:00PM – 1:20PM
LART 210
Prerequisite Courses: MATH 1508 or 1411, and MATH 2304 each with a grade of "C" or better
Course Fee: (if applicable) None
Instructor: Kien Lim
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: Mondays: 1pm – 2pm (via Zoom at https://tinyurl.com/LimHours)
Wednesdays: 4pm – 5pm (via Zoom at https://tinyurl.com/LimHours)
Thursdays: 2pm – 3pm (in-person in Bell Hall 301)
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
- 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, of analyzing problem situations, and of making conjectures and providing justifications
- develop good learning skills like reading math text actively, 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 and performance.
Activities/Assignments:

- This course uses the flipped instructional model. Students are expected to self-study some of the course materials (read the textbook, watch math videos with embedded questions, work on problems, and make notes), complete online work and take online quizzes.
- During class meetings, students will clarify their understandings, apply their knowledge to solve challenging problems, and take an in-class assessment.
- Students will need to have internet access to sites like Blackboard and Edpuzzle (join at [https://edpuzzle.com/join/hadpiti](https://edpuzzle.com/join/hadpiti)), and bring a mobile device to class so that they can participate via iClicker.
- You are expected to put in an average of 9-12 hours per week for a 3-credit hour course.

Assessment:

- Homework is administered using OneNote Class Notebook.
  - Complete your homework by 11pm Mondays to receive a score (up to 20%) for completion and effort.
  - Revise your answers (if you wish) by 11pm Tuesdays to receive a score (up to 80%) for correctness and quality.
- In-class assessments are administered at the beginning of a class. The questions in these assessments are designed to assess your understanding of the assigned readings and online work.
- Pre-class assessments are administered using Respondus Lockdown Browser.
- Edpuzzle videos with embedded questions (80% on time completion & 20% correctness)
- Examinations are based on your understanding of the concepts. Some exam problems are similar to those in the textbook, online work, and in-class activities. Most problems require you to think and apply your understanding.
- The final examination is comprehensive. You are allowed a calculator, compass, protractor, and a cheat sheet (8½-by-11) with notes on both sides.
- To compensate for the higher-cognitive demand questions, the following scale is used for exams:
  - A \( \geq 80\%
  - B 70\% - 80\%
  - C 60\% - 70\%
  - D 45\% - 60\%
  - F < 45\%

Important Dates:

- Census Day (Last day to drop without a “W”)  
  - Sep 8
- Course Drop Deadline (Last day to drop with a “W”)  
  - Oct 29
- Final Examination  
  - Dec 7, 1pm

Grading Policy:

- Edpuzzle & i-Clicker & Attendance  
  - 10%
- Pre-class & In-class Assessments  
  - 10%
- Homework  
  - 25%
- Mid-term Examination 1  
  - 15%
- Mid-term Examination 2  
  - 15%
- Final Examination  
  - 25%
Tentative Schedule:

<table>
<thead>
<tr>
<th>Weeks</th>
<th>Chapter</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 3</td>
<td>1</td>
<td>Euclid’s Geometry</td>
</tr>
<tr>
<td>4 – 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>6.1</td>
<td>Taxicab Geometry</td>
</tr>
</tbody>
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Civility Statement: Be punctual. If you are late for class you will not be given extra time to complete your quiz and 20% of your score will be deducted.

Make-up Policy:
- There will be no make-up for homework and assessments. The lowest score of your homework and the lowest score of your assessments will be dropped.
- 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.

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 one’s 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 sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and 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.