

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

Course Number: MATH 3304 - 16008

Course Title: Fundamentals/Geometry from an Advanced Standpoint

Credit Hrs: 3

Term: Fall 2020

Course Meetings & TR 12:00 pm – 1:20 pm

Location: Online: Blackboard Collaborate Ultra

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

Course Fee: (if applicable) None

Instructor: Jeremy L. Ramirez

Office Location: Library 515

Contact Info: E-mail Address: jlramirez3@utep.edu

Office Hours: E-mail me to schedule a meeting anytime between 11 am and 7 pm

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

Textbook(s), Materials: *Geometry Connections: Mathematics for Middle School Teachers* by John K. Beem. Boston: Pearson.

You will need a device with an internet connection to get into Blackboard. You will need to download Respondus Lockdown Browser and Monitor for exams, and you will need a webcam in order for it to work.

Course Objectives: Students will

- experience Euclidean geometry as an axiomatic system
- 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.

Activities/Assignments: Course activities will include quizzes, homework assignments, exams and a comprehensive final exam.

Assessment: All homework assignments will be assessed for completeness and correctness. All quizzes and exams will be assessed for correctness.

Important Dates: Census Day (Last day to drop without a “W”) Sep 9
Course Drop Deadline (Last day to drop with a “W”) Oct 30
Final Examination Dec 8, 1 pm

Grading Policy:

Quizzes	10%
Homework Assignments	20%
Exam 1	20%
Exam 2	20%
Final Exam	30%

Tentative Schedule:

Weeks	Chapter	Topics
1 – 3	1	Euclid’s Geometry
4 – 7	2	Congruent Figures
8 – 10	3	Similar Figures
11 - 13	4	Rigid Motions and Symmetry
14 – 15	6.1	Taxicab Geometry

Make-up Policy: Late assignments will not be accepted. The lowest grade on homework assignments and quizzes will be dropped. If you miss an exam, it can be made up with permission from the instructor.

Attendance Policy: Attendance will be taken.

Incomplete 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/>.

Civility Statement: Be polite and respectful to your classmates and instructor. You may only use materials allowed by the instructor during exams.

Disability Statement: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

Military Statement: If you are a military student with the potential of being called to military service and/or training during the course of the semester, please inform your instructor as soon as possible.