

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

- Course Number:** MATH 2304 - 26983
- Course Title:** Geometry & Measurement
- Credit Hrs:** 3
- Term:** Spring 2023
- Course Meetings & Location:** TR 10:30 am – 11:50 am
LART 101
- Prerequisite Courses:** MATH 2303 with a grade “C” or better
- Course Fee: (if applicable)** None
- Instructor:** Jeremy L. Ramirez
- Office Location:** Library 515 or ONLINE
- Contact Info:** E-mail Address: jlramirez3@utep.edu
Phone: (915) 747-5761 (Math Department)
- Office Hours:** After class or by Appointment
TR 1:45 pm to 2:45 pm
MW 12:15 pm to 1:15 pm
- Textbook(s), Materials:** Required: Mathematics for Elementary Teachers with Activities (6th Ed)
By Sybilla Beckmann
Compass, Calculator, Straightedge
MANDATORY: MyLabMath code: ramirez46797
- Course Description:** This course focuses on geometry and measurement for prospective elementary and middle school teachers. Topics include measurement as a process of units of measurement for quantities such as length, area, volume, angle size, and speed; conversions of units of measurement; properties and formulas for basic geometrical shapes such as polygons, circles, polyhedra, and cones; transformations such as translations, rotations, reflections, and dilations to geometric relationships and constructions using straight edge, compass, and technology. The focus is on spatial reasoning, logical reasoning, and making connections among geometric ideas and measurement, number concepts, and algebra.
- Course Objectives:** Students will
- (a) deepen their understanding of geometry as a study of space and shapes, and measurement as a process of determining size.
 - (b) make connections and distinction among between concepts, e.g., congruent figures and rigid motion, similarity and proportionality.
 - (c) conceive mathematics as a problem-solving endeavor that involves visualizing, investigating, and analyzing.
 - (d) develop the habit of attending to meaning, of analyzing problem situations, and of making conjectures and providing justifications.

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

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

| Course Schedule: | Weeks | Sections | Topic |
|------------------|---------|-------------|-----------------------------|
| | 1 – 3 | 10.1 – 10.4 | Geometry |
| | 3 – 6 | 11.1 – 11.4 | Measurement |
| | 7 – 9 | 12.1 – 12.9 | Areas & Perimeters |
| | 10 – 11 | 13.1 – 13.4 | Volumes & Surface Areas |
| | 12 – 15 | 14.1 – 14.7 | Geometry of Motion & Change |

TEExES Competencies: Competencies 16 & 18 (Generalist EC-6)
Competencies 20 & 22 (Bilingual Generalist EC-6)
Competencies 17, 18, 19, 20 & 24 (Generalist 4-8)
Competencies 21, 22, 23, 24 & 28 (Bilingual Generalist 4-8)
Competencies 8, 9, 10, 11, 15 & 16 (Mathematics 4-8)

Important Dates: Census Day – Last Day to Drop without a “W” (Feb. 1st)
Last Day to Drop with a “W” (March 30th)

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|------------------------|------------------|-----|-----------------|
| Grading Policy: | Quiz Average | 15% | A= 90 and above |
| | Homework Average | 15% | B=80-89 |
| | Exam 1 | 20% | C=70-79 |
| | Exam 2 | 20% | D=60-69 |
| | Final Exam* | 30% | F=59 and below |

Final Exam: Thurs, May 11th, 10:00AM - 12:45PM

Make-up Policy: Late homework/quizzes may be accepted with permission from the instructor, within one week of their deadlines. There may be a penalty of 5 points per day the assignment is late. If a student misses an exam, it can be made-up with permission from the instructor.

The lowest homework and the lowest quiz grades will be dropped at the end of the semester. The final exam and the lower exam grade will be averaged and replace a student’s lowest exam grade at the end of the semester, only if it is to the student’s advantage.

Attendance Policy: Attendance is encouraged and will be taken each day.

Drop Policy: According to UTEP Curriculum and Classroom Policies, “When, in the judgment of the instructor, a student has been absent to such a degree as to impair his or her status relative to credit for the course, the instructor may drop the student from the class with a grade of “W” before the course drop deadline and with a grade of “F” after the course drop deadline.” See academic regulations in the UTEP Undergraduate Catalog for a list of excuse absences.

If you are not attending class nor are you turning in assignments, you may be dropped from the course.

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 <https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html>.

Civility Statement: Calculators may not be shared during quizzes and exams. Please do not use any electronic devices during class. Cell phones should be set to silent or vibrate, and any calls should be taken outside of class. Please do not wear headsets or blue tooth devices during class. Please don't talk during lectures. Cell phone calculators may not be used on quizzes or exams. Active participation in class is expected, teamwork in class will be implemented.

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 semester, please contact me by the end of the first week of class.