THE UNIVERSITY OF TEXAS AT EL PASO

# COLLEGE OF SCIENCE

## DEPARTMENT OF MATHEMATICAL SCIENCES

**Course Number:** MATH 2304 – CRN 15139

**Course Title:** Geometry & Measurement

**Credit Hrs.:** 3

**Term:** Fall 2026

**Course Meetings & Location:** Monday & Wednesday 1:30 PM- 2:50 PM
Memorial Cotton 307
THIS IS A FACE -TO-FACE COURSE

**Prerequisite Courses:** MATH 2303 with a grade "C" or better

**Instructor:** Martha Delgado
madelgado8@utep.edu

**Office Location:** Library 218

**Office Hours:** By appointment:

- Send me an email to set up a meeting.
- Include your information:

**Your name and course name**

Office hours are only held during normal university schedules. Please allow one business day for the return of emails. Evening and weekend emails will be attended to during regular business hours. Other times at the discretion of the instructor.
During off-scheduling (Final week) or condensed scheduling (late start, closed university) hours will be adjusted appropriately.

**Textbook, Materials Required:**

- Mathematics for Elementary Teachers with Activities ($6^{th}$ Ed) By Sybilla Beckmann.
- **Compass, protractor, geometric set, tape, a pair of scissors an stapler.**

**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, polyhedral, 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

- Start with a few assumed facts called axioms or postulates and then systematically and carefully derive the entire content of the subject using nothing but pure logic.
- Deepen their understanding of geometry as a study of space and shapes, and measurement as a process of determining size.
- Make connections and distinction between concepts, e.g., congruent figures and rigid motion, similarity and proportionality.
- Conceive mathematics as a problem-solving endeavor that involves visualizing, investigating, and analyzing.
- Develop the habits of attending to meaning, of analyzing problem situations, and of making conjectures and providing justifications.
- Develop skills of active reading and understanding mathematical texts.

**Course Activities/Assignments:**

- Students are required to read and understand the textbook before each class meeting.
- During class, students must have active participation to clarify their understandings and then be able to work on their assignments.
- **In-class activities (classwork)** will engage students in actively thinking about and making sense of mathematical ideas. These ideas will be presented in meaningful contexts that encourage students and the teacher to develop class discussions. Students will then explain their solutions, conjectures, and conclusions using those mathematical ideas. By extending their thinking, students will transform these mathematical ideas into mathematical concepts and formulas. The purpose is that you leave this class feeling confident that you have truly mastered the concepts that you may one day teach for yourself.

**Assessment of Course Objectives:**

**Homework (word problems and constructions) will be available through Blackboard. Students will submit their word problem solutions in BB. Constructions must be presented in the classroom.**

- Grading of problem solutions and constructions will include partial credit as well as feedback to support student's learning and understanding.
- Students may re-work all incorrect answers to improve their assignment score.
- **Students have one day to do the re-work after the teacher returns the graded assignment.**
- **Student may contact the teacher to review and discuss any incorrect answers.**

**Quizzes will be administered in the classroom at the end of each section.**

**Evaluations**
Evaluation 1 (Chapters 10-11)
Evaluation 2 (Chapters 12-13)
Final evaluation (Comprehensive)

- Evaluations will be scored for correctness.
- Evaluations are based on your understanding of the concepts. Evaluation's problems/questions are like those in the in-class activities problems. Evaluations require you to think and apply your understanding.

**Course Schedule:**

Separate document

**Important dates:**

For a complete academic calendar, please see the following link.

**TExES 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)

**Grading Policy:**

Grades will be calculated using the following weights:

| | |
|---|---|
| Problems /Constructions | 30% |
| Quizzes | 10% |
| Evaluation 1 | 20% |
| Evaluation 2 | 20% |
| Final Evaluation | 20% |

Final grades are determined according to the following score scale:

| | |
|---|---|
| A | 90% - 100% |
| B | 80% - 89% |
| C | 70% - 79% |
| D | 60% - 69% |
| F | < 60% |

**Course Adjustments:** *Reasonable adjustments to course policies, schedules, assessments, or procedures may be made when necessary to maintain fairness and academic integrity or to address logistical/technical constraints. Updates through the official LMS and/or official course communications supersede prior versions.*

**Make-up Policy:**

- Late homework will not be accepted. Make-up homework will only be given for students attending university sponsored events (such as student athletes traveling to meets), and only with prior notification and appropriate documentation.
- A make-up exam will only be given in extraordinary circumstances (severe illness, death in immediate family), and with appropriate documentation (e.g. doctor's note).

**Attendance Policy:** Attendance is required. Attendance will be taken at every class meeting, after 3 unexcused absences, you will be dropped from the course.

**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.
Therefore, if you do not submit any assignments by September 1st, then you will be dropped from this class for lack of effort. You are expected to work toward completion of the course assignments daily.
You are expected to attend all class meetings.
However, if you do not submit any assignments for three consecutive business days, then you may be dropped from this class due to lack of effort.
You are expected to check Blackboard and your miners' email regularly for announcements.
**The Drop Date for this semester is October 30, 2026 before 5:00 PM. No drops will be approved after this date or time.**
Students who decide to drop the course must process a drop form, by emailing records@utep.edu by November 1st. Please note that the College of Science will remain aligned with the University and **will not approve any drop requests after that date.**

**Academic Integrity Policy:** The University policy is that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition.

Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the 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

Each student is responsible for notice of and compliance with the provisions of the Regents' Rules and Regulations, which are available for inspection electronically at https://www.utsystem.edu/offices/board-regents/regents-rules-and-regulations.

All students are expected and required to obey the law, to comply with the Regents' Rules and Regulations, with System and University rules, with directives issued by an administrative official in the course of his or her authorized duties, and to observe standards of conduct appropriate for the University. A student who enrolls at the University is charged with the obligation to conduct himself/herself in a manner compatible with the University's function as an educational institution.

Any student who engages in conduct that is prohibited by Regents' Rules and Regulations, U. T. System or University rules, specific instructions issued by an administrative official or by federal, state, or local laws is subject to discipline, whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.

**Civility Statement:** This course requires positive, polite behavior. Please do not distract yourself or others with food, telephones, or music. Telephone use will not be allowed in class. If your phone becomes audible or visible in class, you will be asked to leave class. If your phone becomes audible or visible during an exam, I will immediately collect the exam, and you will be required to leave. Further note: Your phone is not a calculator; please do not pretend that it is one.

**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 service and/or training during the semester, contact me as soon as it appears that your service will interfere with your progress in this course. I will work with you to ensure that your service will not adversely affect your academic progress.

**Academic and Technology 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, Academic Resources.
- **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.

**Individual Resources:**

- **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.