

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

Course Number: MATH 2304 – CRN 11959

Course Title: Geometry & Measurement

Credit Hrs.: 3

Term: Fall 2022

Course Meetings & TR 10:30 AM- 11:50 AM

Location: LART 210

Prerequisite Courses: MATH 2303 with a grade “C” or better

Instructor: Martha Delgado
madelgado8@utep.edu

Office Location: Library 218 B (inside MaRCS)

Office Hours: MW 10:30AM – 11:30 AM

TR 12:00PM – 1:00 PM

To set an appointment during a different office hours’ time:

Send me an email to set up a meeting including:

Your name and course name

Office hours are only held during normal university scheduling. 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 (6th Ed) By Sybilla Beckmann.
- You must buy the MyLab Math access code that includes the e-textbook.
 - a) Sign in to Blackboard and enter the Math 2304 course
 - b) In the “Home Page” click on the “MyLab Math” folder
 - c) Select the option “ MyLab Math Browser Check” to ensure your computer has all the components you need for the MyLab Math course.
 - d) Select the option “ MyLab and Mastering Course Home”.
 - e) Register
- **Compass, protractor, geometric set, tape and 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

- 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 habits of attending to meaning, of analyzing problem situations, and of making conjectures and providing justifications;
- e) Develop skills of active reading and understanding mathematical texts.

Course Activities/Assignments:

- Students are required to read and understand the textbook before each class meetings.
- Students must work on the activities assigned in the course calendar before class' meetings.
- **In-class activities (Classwork)** will allow students to think actively using and making sense of mathematical ideas. These mathematical ideas will be placed in contexts allowing students and teacher to be involved in class' discussions. Then, students will explain their solutions, conjectures and/or conclusions using those mathematical ideas and by extending their thinking, they will convert those mathematical ideas in mathematical concepts/formulas
- During class, students must have an active participation to clarify their understandings, later, be able to work on their assignments, and turn them in for grading.
- Students must complete on a daily basis a **MyLab Math homework**

Assessment of Course Objectives: Students must turn in the worked activities the following day after activity class' discussion.

- Constructions and activities will be graded and include partial credit as well as feedback on the learning process.
- Students can do a re-work on all incorrect activities answers to improve assignment score.
- **Students have one day to do the re-work after the teacher turn in back the graded assignment.**

System will grade automatically MyLab Math homework and have 3 attempts.

- a. You will be able to determine what you know or has learned.
- b. 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.

3 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 similar to those in the in-class activities and homework. Most problems require you to think and apply your understanding.

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

Important dates		
	• September 7 th	Census day
	• October 28 th	Drop Day (last day to drop with a W)
	• TBA	Final Exam

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:

Activities	30%
Homework (MyLab Math)	25%
Evaluation 1	15%
Evaluation 2	15%
Final Evaluation	15%

Final grades are determined according to the following score scale:

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

- 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 is required. Roll will be taken.

Attendance Policy:

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 28th, 2022 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 October 28th . 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: All correspondence with your instructor and other students should be conducted in an appropriate manner.

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.