

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

**Course Number:** MATH 2304 – CRN 21734

**Course Title:** Geometry & Measurement

**Credit Hrs.:** 3

**Term:** Spring 2022

**Course Meetings &** MW 3:00 PM- 4:20 PM

**Location:** UGLC 210 (Undergraduate Learning Center)

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

**Instructor:** Martha Delgado  
[madelgado8@utep.edu](mailto:madelgado8@utep.edu)

**Office Location:** Library 218 B (inside MaRCS)

**Office Hours:** By appointment.

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 (5<sup>th</sup> Ed) By Sybilla Beckmann.
- 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

- Deepen their understanding of geometry as a study of space and shapes, and measurement as a process of determining size;
- Make connections and distinction among 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 expected to:

- Students are required to read and understand the textbook before each class meetings.
- Students must bring to the meetings the activities embeded in the section' readings. These class activities (Classwork) will be collected at the end of each meeting. These textbook activities will allow students to think actively through mathematical ideas and make sense of them for themselves. These mathematical ideas will be place in contexts to enhance students and teacher discussions during class time. Then, students will explain their solution methods to deep and extend their thinking.
- Students use the above information in form of activities or constructions to illustrate their learning.

**Assessment of Course Objectives:**

- Constructions and activities will be graded including partial credit as well as feedback on the learning process.
- Homework assignments will be scored for correctness. It is expected that students will re-work all incorrect homework assignments.

**5 Tests**

- A test after covering the content of one chapter.
- These tests will measure/examine your knowledge of each chapter content.
- You will be able to determine what you know or has learned.
- You will re –work the tests to look over mistakes, and reflect on your previous work to improve your understanding.
- 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 Exams**

Exam 1 (Chapters 10-11)

Exam 2 (Chapters 12-13)

Final exam (Comprehensive)

- Exams will be scored for correctness.
- Examinations are based on your understanding of the concepts. Exam problems are similar to those in the textbook, in-class activities, homework and tests. Most problems require you to think and apply your understanding.

<b>Course Schedule:</b>	<b>Weeks</b>	<b>Sections</b>	<b>Topic</b>
	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

<b>Important dates</b>		
	• February 2 <sup>nd</sup>	Census day
	• April 1 <sup>st</sup>	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:** Letter grades are determined according to the following scale:

Homework Assignments/Activities	20%
5 Tests (each 5%)	25%
Exam 1	15%
Exam 2	15%
Final Exam	25%

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.

University Sponsored Events: (conferences, student athletes, etc...) The student needs to inform me of any traveling conflicts before they leave and make adequate arrangements to make up the missed material with one week of returning. Failure to do so, will result in the forfeiture of points.

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). Exams can be made up with the permission of the instructor on an individual basis.

**Attendance Policy:** Attendance is required. Roll will be taken.

Attendance in the course is determined by participation in the learning activities of the course. Your participation in the course is important not only for your learning and success but also to create a community of learners. Participation is determined by completion of the following activities:

- Reading/Viewing all course materials to ensure understanding of assignment requirements
- Participating in engaging discussion with your peers on class discussions.

**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 January 29<sup>th</sup> at 11:59 PM, 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 on MW 3:00 PM - 4:20 PM, at UGLC 210.

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 February 25<sup>th</sup>, 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](mailto:records@utep.edu) by February 25<sup>th</sup> . 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](mailto: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](http://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.

**COVID-19  
Accommodations:**

Students are not permitted on campus when they have a positive COVID-19 test, exposure or symptoms. If you are not permitted on campus, you should contact me as soon as possible so we can arrange necessary and appropriate accommodations. Students who are considered high risk according to CDC guidelines and/or those who live with individuals who are considered high risk may contact Center for Accommodations and Support Services (CASS) to discuss temporary accommodations for on-campus courses and activities.

Apply at [cassportal.utep.edu](http://cassportal.utep.edu) and fill out a three-question application. You will be scheduled to meet with disability coordinator to discuss your unique situation.

**COVID-19 Precautions:**

You must **STAY AT HOME** and **REPORT** if you (1) have been diagnosed with COVID-19, (2) are experiencing COVID-19 symptoms, or (3) have had recent contact with a person who has received a positive coronavirus test. Reports should be made at [screening.utep.edu](http://screening.utep.edu). If you know of anyone who should report any of these three criteria, you should encourage them to report. If the individual cannot report, you can report on their behalf by sending an email to [COVIDaction@utep.edu](mailto:COVIDaction@utep.edu).

For each day that you attend campus—for any reason—you must complete the questions on the UTEP screening website ([screening.utep.edu](http://screening.utep.edu)) prior to arriving on campus. The website will verify if you are permitted to come to campus. Under no circumstances should anyone come to class when feeling ill or exhibiting any of the known COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, and alternative instruction will be provided. Students are advised to minimize the number of encounters with others to avoid infection. Please contact me immediately if you fall ill during the semester so that we can work together to formulate a strategy to help you get caught up as soon as you are physically able.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit [epstrong.org](http://epstrong.org).

