

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

- Course Number:** MATH 2304 (CRN: 25595)
- Course Title:** Geometry & Measurement
- Term:** Spring 2024
- Course Meetings & Location:** TR 4:30 pm – 5:50 pm
EDUC 203
- Prerequisite Courses:** MATH 2303 with a grade “C” or better
- 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:** TR 3:00 pm to 4:10 pm or by appointment
- Textbook(s), Materials:** Required: Mathematics for Elementary Teachers with Activities (6th Ed)
By Sybilla Beckmann
Compass, Calculator, Straightedge/Ruler
MyLab Math access is required.
Course ID: ramirez68634
- 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
- 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 habit of attending to meaning, of analyzing problem situations, and of making conjectures and providing justifications.
 - develop the skills for active reading and understanding mathematical texts.
 - cultivate a growth mindset where the focus is learning and effort rather than looking good and performance.

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 class activities and homework assignments will be assessed for completeness and correctness. All quizzes and exams 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 |

Important Dates: Census Day – Last Day to Drop without a “W” (Jan 31st)
Last Day to Drop with a “W” (March 28th)
It is the student’s responsibly to fill out the necessary paperwork if they wish to drop the course.

| | | | |
|------------------------|------------------|-----|-----------------|
| Grading Policy: | Quiz Average | 10% | A= 90 and above |
| | Homework Average | 20% | B=80-89 |
| | Exam 1 | 20% | C=70-79 |
| | Exam 2 | 20% | D=60-69 |
| | Final Exam* | 30% | F=59 and below |

Final Exam: Tuesday, May 7th at 4:00 pm – 6:45 pm

Make-up Policy: Late homework/quizzes may be accepted with permission from the instructor, **within one week of their deadlines. The homework assignment grade will be a 0 two weeks after it was assigned. In certain cases, such as homework before exams or persistently late homework, late penalties will be applied.**

If a student misses an exam, it can be made up with permission from the instructor on an individual basis. You must provide documentation for your reason. The student will receive a 0 for the exam grade.

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. Both exams 1 and 2 must be attempted for this to occur.

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: Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as one's own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the **Office of Student Conduct and Conflict Resolution (OSCCR)** for possible disciplinary action.

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.

Accommodation Policy The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at cass@utep.edu, or apply for accommodations online via the CASS portal.

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.

Services & 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.

[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.

[University Writing Center \(UWC\)](#)

Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing 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.