

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF Mathematical Sciences

Course #: MATH 2304
Course Title: Geometry and Measurement
Credit Hrs: 3
Term: Summer 2, 2018 (July 10 – August 3)
Course Meetings & Location: BUSN 326 11:40 AM – 1:50 PM M – F
Prerequisite Courses: MATH 2303 with a grade “C” or better
Course Fee: (if applicable) None
Instructor: Tuesday J. Johnson
Office Location: Bell Hall 322
Contact Info: Phone #: 915-747-8738
E-mail address: tjohnson3@utep.edu
Website: <http://math.utep.edu/faculty/tuesdayj>
Emergency Contact: 915-747-5761 (Math Department)

Office Hrs: Tuesday and Thursday 2PM – 3PM
Textbook(s), Materials: Mathematics for Elementary Teachers with Activities (5th ed) By Sybilla Beckmann (use the 20% code “MPS20” for online purchase at www.mypearsonstore.com).
Compass, Protractor, Rulers, and Stapler

Course Description and Learning Outcomes: 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.

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 among and distinctions 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; and
- (e) Develop good learning skills like reading math text actively, posing questions, making connections, and create own notes using graphic organizers.

Course Activities/Assignments: This course uses the flipped instructional model. Students are expected to self-study the textbook and other resources prior to class so that the most can be made of the time we spend together working through activities.

Grading Policy:	Constructions/Quizzes	30%
	Homework/Activities	30%
	Mid-Term Exam	20%
	Final Exam (Aug. 3)	20%

Make-up Policy: There will not be any make up allowed except in extreme emergencies (as written documentation to be evaluated and decided if acceptable by the instructor).

Attendance Policy: Attendance will be taken daily.

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. 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 <http://www.utsystem.edu/bor/rules/homepage.htm>

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: Calculators may not be shared during quizzes and exams. Please do not use cell phones, pagers, iPods, MP3 players, blue tooth devices, etc. during class. Cell phones and pagers 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 in class. 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 a student has or suspects she/he has a disability and needs an accommodation, he/she should contact The Center for Accommodations and Support services (CASS) at 747-5148 or at <cass@utep.edu> or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any CASS accommodation letters and instructions.

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