Course Number: MATH 2304 – 31513
Course Title: Geometry & Measurement
Credit Hrs: 3
Term: Summer II 2016 (Jul 05- Jul 29, 2016)
Course Meetings & Location: MTWR 2:00 pm – 4:00 pm
Hudspeth Hall Room 300
Prerequisite Courses: MATH 2303 with a grade “C” or better
Course Fee: (if applicable) None
Instructor: Yi-Yu Liao
Office Location: Bell Hall Room 130F
Contact Info: E-mail Address: yliao2@utep.edu
Office Phone: (915) 747-5452
Fax Number: (915) 747-6502
Emergency Contact: (915) 747-5761
Office Hours: MTWR 4:00 pm – 4:30 pm
3. Compass, protractor, and rulers.
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 
(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; and 
(e) develop the skills of active reading and understanding mathematical texts.

Course Activities/Assignments: There will be reading assignments, online homework, quizzes, and additional reflection assignments before or after each class meeting. Students sometimes may take in-class assessments as well. You will need to have constant access to Blackboard (BB), My MathLab, and other online resources.

Assessment of Course Objectives: In-class assessments will be given during the course without specific time. Please do not arrive class late since there will be no make-up or given chance to take it later than other students. There will be no announcements or reminders for your online assignments so please check your My MathLab at least on the daily basis. Final exam is comprehensive.

Course Schedule: Weeks | Sections | Topic
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1 | 10.1 – 10.5 | Geometry
2 | 11.1 – 12.4 | Measurement, Areas & Perimeters
3 | 12.5 – 13.3 | Circles, Volume & Surface Areas
4 | 14.1 – 14.6 | Geometry of Motion & Change

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)

Important Dates: Census Day – Last Day to Drop without a “W” (July 7, 2016)
Last Day to Drop with a “W” (July 22, 2016)

Grading Policy: Online homework & in-class assessments 25%
Quizzes (online & inclass) 25%
Mid-term (Tue, Jul 19 2pm – 3pm) 25%
Final (Tue, Aug 2nd 4pm – 6:45pm) 25%

Regular grading scale: A >= 90%, B >= 80%, C >= 70% ...
Make-up Policy: No make-up for any assignments. If you submit your work by e-mail, it will not be accepted, either. Please make sure you contact your classmates to turn in for you if necessary. Absences due to a death in the immediate family are excused. Otherwise, please provide official documentations related to sickness or other serious issues. You have one no-excuse absence allowed during Summer II.

Attendance Policy: Attendance will be taken for each class, and will be considered as your in-class performance at the end of semester.

Academic Integrity Policy: 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 http://admin.utep.edu/Default.aspx?PageContentID=2083&tabid=30292.

Civility Statement: Be punctual and respectful. If 15 mins late to class, you may not allow to enter the classroom any more. Also, 30% of your any in-class assignment scores will be deducted.

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 military service and/or training during the course of the semester, please inform your instructor as soon as possible.