Course Number: MATH 2304 - 12979
Course Title: Geometry & Measurement
Credit Hrs: 3
Term: Fall 2016
Course Meetings & Location: MW 10:30 am – 11:50 am
LART 106
Prerequisite Courses: MATH 2303 with a grade “C” or better
Course Fee: (if applicable) None
Instructor: Jeremy Ramirez
Office Location: Library 515
Contact Info: E-mail Address: jlrerez3@utep.edu
Office Phone: TBA
Fax Number: (915) 747-6502
Emergency Contact: (915) 747-5761
Office Hours: MW 12:00 pm – 1:00 pm or by appointment.
Textbook(s), Materials: Required: Mathematics for Elementary Teachers with Activities (4th Ed)
By Sybilla Beckmann (use the 20% code “utepmath2016” for online purchases at www.mypearsonstore.com)
Also, you will need a compass and a straight edge.
Optional MyMathLab code: ramirez39306
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 habit of attending to meaning, of analyzing problem situations, and of making conjectures and providing justifications.
Course Activities/Assignments: Course activities will include classroom activities/discussions, homework assignments, 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 exams will be assessed for correctness.

Course Schedule:

<table>
<thead>
<tr>
<th>Weeks</th>
<th>Sections</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 3</td>
<td>10.1 – 10.5</td>
<td>Geometry</td>
</tr>
<tr>
<td>3 – 6</td>
<td>11.1 – 11.4</td>
<td>Measurement</td>
</tr>
<tr>
<td>7 – 9</td>
<td>12.1 – 12.9</td>
<td>Areas &amp; Perimeters</td>
</tr>
<tr>
<td>10 – 11</td>
<td>13.1 – 13.4</td>
<td>Volumes &amp; Surface Areas</td>
</tr>
<tr>
<td>12 – 15</td>
<td>14.1 – 14.6</td>
<td>Geometry of Motion &amp; Change</td>
</tr>
</tbody>
</table>

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” (Sept 7)
- Last Day to Drop with a “W” (Oct 28)

Grading Policy:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Activities</td>
<td>05%</td>
</tr>
<tr>
<td>Homework Assignments</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam*</td>
<td>20%</td>
</tr>
</tbody>
</table>

A= 90 and above
B=80-89
C=70-79
D=60-69
F=59 and below

The Final Exam will be held Friday, Dec. 9th from 10:00AM -12:45PM

Make-up Policy: Late assignments will not be accepted. The lowest grade on homework assignments will be dropped. If you miss an exam, it can be made up with permission from the instructor.

Attendance Policy: Attendance is required. Absences will affect the class activities portion of your grade.

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 polite and respectful to your classmates. You will not be able to use your phone on exams for any reason. Be sure to bring a calculator.
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.