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

Course Number: MATH 2304 – 22738
Course Title: Geometry & Measurement
Credit Hrs: 3
Term: Spring 2016
Course Meetings & Location: Tuesday & Thursday 12:00PM – 1:20PM Miners Hall 300
Prerequisite Courses: MATH 2303 with a grade “C” or better
Course Fee: (if applicable) None
Instructor: Alejandro Galvan
Office Location: Bell Hall 130b
Contact Info: E-mail Address: agalvan4@utep.edu
Office Phone: TBA
Fax Number: (915) 747-6502
Emergency Contact: (915) 747-5761
Office Hours: Wednesday 1:30PM – 2:30PM, Friday 10:00AM – 12:00PM or by appointment.

Materials: 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 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: Course activities will include quizzes, classroom activities/discussions, homework assignments, assessments, two 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, assessments, and exams will be assessed for correctness.

Tentative Schedule:

<table>
<thead>
<tr>
<th>Weeks</th>
<th>Sections</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1 – 3</td>
<td>10.1 – 10.5</td>
<td>Geometry</td>
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<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 – 13.3</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>
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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 W (Sep 7)
- Last Day to Drop with a “W” (Oct 28)
- No drop is allowed after Oct 28

Grading Policy:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Participation</td>
<td>05%</td>
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<tr>
<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Homework</td>
<td>15%</td>
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<tr>
<td>Assessments</td>
<td>15%</td>
</tr>
<tr>
<td>Examination</td>
<td>25%</td>
</tr>
<tr>
<td>Final Examination</td>
<td>25%</td>
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Make-up Policy:

- There will be no make-up for assignments and assessments. The lowest score of your homework assignments and the lowest score of your assessments will be dropped.
- If you should miss the exam, the possibility of a make-up will be determined on an individual basis. If you cannot provide documentation to support your reason, your exam grade will be counted as the missed-exam grade.

Attendance Policy: Attendance will be taken.
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: 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://sa.utep.edu/osccr/academic-integrity/.

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.