Course Number: MATH 2304-31669
Course Title: Geometry & Measurement
Credit Hrs: 3
Term: Summer II 2015 (July 6 – July 31)
Course Meetings & Location: Monday-Friday 2:00PM – 4:00PM
Bell Hall 130A
Prerequisite Courses: MATH 2303 with a grade “C” or better
Course Fee: (if applicable) None
Instructor: Kien Lim
Office Location: Bell Hall 301
Contact Info: E-mail Address: kienlim@utep.edu
Office Phone: (915) 747-6772
Fax Number: (915) 747-6502
Emergency Contact: (915) 747-5761
Office Hours: Monday-Thursday 4PM – 5PM

Textbook(s), Materials:
2. MyMathLab access. With an access code, register at pearsonmylabandmastering.com with course id “lim74418”.
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:** This course uses the flipped instructional model. Students are expected to self-study some of the course materials (watch math videos, read the textbook, work on problems, and make notes), complete online work, take online quizzes, and/or submit reflection prior to each class meeting. During class meetings, students will clarify their understandings, apply their knowledge to solve challenging problems, and take an in-class assessment. Homework will be assigned after each class meeting. Students will need to have internet access to sites like Blackboard, MyMathLab, and Edpuzzle.

**Assessment of Course Objectives:**
- In-class assessments are administered at the beginning of a class. The questions in these assessments are designed to assess your understanding of the assigned readings and online work.
- Online assessments are done via MyMathLab, which requires you need to have an access code.
- Homework assignments are posted via Blackboard after each class and are to be turned in at the beginning of the next class.
- Online work are posted on Blackboard and is due before each class meeting.
- Examinations are based on your understanding of the concepts. Some exam problems are similar to those in the textbook, online work, and in-class activities. Most problems require you to think and apply your understanding. To compensate for the higher-cognitive demand questions, the following scale is used for exams:
  - A \( \geq 80\% \)
  - B 70% - 80%
  - C 60% - 70%
  - D 45% - 60%
  - F < 45%
- The final examination is comprehensive.

**Tentative Schedule:**
<table>
<thead>
<tr>
<th>Week</th>
<th>Sections</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>10.1 – 10.5</td>
<td>Geometry</td>
</tr>
<tr>
<td>2</td>
<td>11.1 – 12.4</td>
<td>Measurement, Areas &amp; Perimeters</td>
</tr>
<tr>
<td>3</td>
<td>12.5 – 13.3</td>
<td>Circles, Volumes &amp; Surface Areas</td>
</tr>
<tr>
<td>4</td>
<td>14.1 – 14.6</td>
<td>Geometry of Motion &amp; Change</td>
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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): July 8
- Course Drop Deadline (Last Day to Drop with a “W”): July 24
- No drop is allowed after July 24

**Grading Policy:**
- Online Quizzes & In-class Assessments: 20%
- Homework & Online Assignments: 30%
- Mid-term Examination: 20%
- Final Examination (August 4, 4pm): 30%

**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, 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/](http://sa.utep.edu/osccr/academic-integrity/).

**Civility Statement:**
- Be punctual. If you are late for class you will not be given extra time to complete your quiz and 20% of your score 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](http://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.