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

Course Number: MATH 4302 – 22872
Course Title: Fundamental Mathematics Concepts Taught in Grades 4-8
Credit Hrs: 3
Term: Spring 2016
Course Meetings & Location: Tuesdays & Thursdays: 4:30 PM – 5:50 PM LART 304
Prerequisite Courses: MATH 3308 with a grade of "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: Tuesdays 1:30PM – 2:50PM & By Appointments

Textbook(s), Materials:
- *Math for Elementary Teachers with Activities* by Sybilla Beckmann
- A smartphone or a tablet with internet access
- Go to [http://edpuzzle.com](http://edpuzzle.com).
  Click “Signup” and choose “Student”.
  Enter your full name for your username (e.g. MarioRuiz).
  Click “Join New Class” by entering our Class code “dwKpLJ”.
- Texas Preparation Manual: Mathematics 4-8

Course Description: Mathematics taught in grades 4-8 will be examined from an advanced standpoint. This course is intended to help preservice middle school mathematics teachers make connections between their undergraduate mathematics education and the mathematics they will teach. Topics will be chosen from: number concepts and relationships, fundamental ideas of number theory, discrete mathematics, probability and statistics, numerical literacy, Euclidean and non-Euclidean geometry, transformational geometry, patterns, variables, and functions, multiple representations of functions, mathematical modeling, and concepts of calculus.
Course Objectives: Students are expected to develop and advance their mathematical knowledge for teaching, which include (a) understanding of key mathematical concepts, (b) mathematical practices, and (c) pedagogical content knowledge. Ultimately, students are expected to view mathematics as a subject that involves problem solving, sense making, and reasoning, instead as a collection of facts and procedures.

Course Activities/Assignments: Students will participate in in-class activities, read and understand assigned readings, watch math videos, create notes, turn-in weekly homework assignments, and prepare for in-class assessments & exams.

Assessment of Course Objectives:
- Weekly homework is assigned via Blackboard after Tuesday class. Do the part to prepare for the coming Thursday class. The entire homework is collected on the following Tuesday.
- Pre-class assessments are to be taken via Blackboard at least 3 hours prior to a class. In-class assessments are taken at the beginning of a class. The questions in these assessments are designed to assess your understanding of the assigned reading of the text and the materials discussed in class.
- Examinations are based on your understanding of the concepts and not based on how well you remember to solve certain problems. Most problems in exams require you to think and apply your understanding; they are not necessarily similar to those you work on in class or for homework. To compensate for the challenging questions, the following scale is used for all three exams:
  A \[ \geq 80\% \]
  B \[ 70\% - 80\% \]
  C \[ 60\% - 70\% \]
  D \[ 45\% - 60\% \]
  F \[ < 45\% \]
- The final examination is comprehensive. A graphing calculator and a 2-sided page (letter size) of notes are allowed.

Grading Policy:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Pre-class &amp; In-class Assessments</td>
<td>15%</td>
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<tr>
<td>Homework Assignments</td>
<td>20%</td>
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<tr>
<td>Mid-term Examination 1</td>
<td>20%</td>
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<tr>
<td>Mid-term Examination 2</td>
<td>20%</td>
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<tr>
<td>Final Examination (May 12, 4pm)</td>
<td>25%</td>
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</tbody>
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Important Dates:

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Census Day (Last day to drop without a “W”)</td>
<td>Feb 3</td>
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<tr>
<td>Course Drop Deadline (Last day to drop with a “W”)</td>
<td>Apr 1</td>
</tr>
<tr>
<td>Final Exam</td>
<td>May 10, 4pm</td>
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</table>
Make-up Policy: • There will be no make-up for assignments and assessments. The lowest score of your 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 punctual. If you are late for class you will not be given extra time to complete your quiz and 25% 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.

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.