Course Number: MATH 2303 - 18112
Course Title: Number Concepts
Credit Hrs: 3
Term: Fall 2018
Course Meetings & Location: TR 1:30 pm – 2:50 pm
LART 210
Prerequisite Courses: MATH 0311 or an adequate score on a placement exam
Instructor: Jeremy L. Ramirez
Office Location: Library 515
Contact Info: E-mail Address: jlramirez3@utep.edu
Office Hours: TR 10:30 am – 11:30 am
Textbook(s), Materials: Required: Mathematics for Elementary Teachers with Activities (5th Ed) By Sybilla Beckmann (use the 20% code “MPS20” for online purchases at www.mypearsonstore.com)
OPTIONAL: MyMathlab Access Code: ramirez07093
Course Description: This course focuses on numbers and operations for prospective elementary and middle school teachers. Topics include place value, whole numbers, rational numbers, signed numbers, arithmetic operations and algorithms, divisibility tests, multiples and factors. The focus is on conceptual understanding, quantitative reasoning, number sense, multiple representations and ways of thinking, mathematical justification and communication, problem solving, connection making and addressing students' common misconceptions and errors.
Course Objectives: Students will
(a) deepen their conceptual understanding of numbers and operations by explaining why and making connections;
(b) conceive mathematics as a problem-solving endeavor that involves sense-making and thinking; and
(c) 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, 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 – 2</td>
<td>1.1 – 1.4</td>
<td>Numbers &amp; Base-Ten System</td>
</tr>
<tr>
<td>3 – 5</td>
<td>2.1 – 2.5</td>
<td>Fractions &amp; Problem Solving</td>
</tr>
<tr>
<td>6 – 8</td>
<td>3.1 – 3.5</td>
<td>Addition &amp; Subtraction</td>
</tr>
<tr>
<td>9 – 10</td>
<td>4.1 – 4.6</td>
<td>Multiplication (Whole numbers)</td>
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<tr>
<td>11 – 12</td>
<td>5.1 – 5.4</td>
<td>Multiplication (Rational &amp; Signed Numbers)</td>
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<tr>
<td>13 – 15</td>
<td>6.1 – 6.3</td>
<td>Division (Whole numbers)</td>
</tr>
</tbody>
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TExES Competencies:

- Competencies 14 & 18 (Generalist EC-6)
- Competencies 18 & 22 (Bilingual Generalist EC-6)
- Competencies 10, 11, 12, & 24 (Generalist 4-8)
- Competencies 14, 15, 16, & 28 (Bilingual Generalist 4-8)
- Competencies 1, 2, 3, 15 & 16 (Mathematics 4-8)

Important Dates:

- Census Day – Last Day to Drop without a “W” (Sept. 12th)
- Last Day to Drop with a “W” (Nov. 2nd)

Grading Policy:

- Class Activities 10%  A=90 and above
- Homework Assignments 20%  B=80-89
- Exam 1 20%  C=70-79
- Exam 2 20%  D=60-69
- Final Exam 30%  F=59 and below

**Final Exam Thursday, Dec. 13th 1:00 pm – 3:45 pm**

Make-up Policy:

Late assignments will not be accepted. Being absent is not an excuse to turn in late assignments, you must submit your homework by e-mail before the end of the day. 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. You lose 5 points per absence after 3 absences. You may be dropped for excessive absences.

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 [https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html](https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html).

Civility Statement:

Be polite and respectful to your classmates and instructor. You will not be able to use any electronic devices on the exam.

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.