Course Number: MATH 2303-11689
Course Title: Number Concepts
Credit Hrs: 3
Term: Fall 2016
Course Meetings & Location: Miners Hall 301
       TR 10:30-11:50
Prerequisite Courses: MATH 0311 or an adequate score on a placement exam
Course Fee: (if applicable) None
Instructor: Miguel A Valles, M.Sc.
Office Location: Bell Hall 315
Contact Info: E-mail Address: mavallesmorales@utep.edu
              Office Phone: TBA
              Fax Number: (915) 747-6502
              Emergency Contact: (915) 747-5761
Office Hours: MW 12:00-13:00 TR 11:00-13:00
Textbook(s), Materials: Required: Mathematics for Elementary Teachers with Activities (4th Ed)
       By Sybilla Beckmann (purchase online with a discount code)
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 habits of attending to meaning, of analyzing problem situations, and of making
           conjectures and providing justifications; and
       (d) develop the skills of active reading and understanding mathematical texts.
Course Activities/Assignments: Students are required to complete any assignments given as well as to
       actively participate in class activities and discussions.
**Assessment of Course Objectives:** Quizzes will be given to assess the student’s learning progress. Also the student will take two exams and a final examination as part of the assessment of the course.

**Course Schedule:**
- **Weeks** 1 – 2: Sections 1.1 – 1.4, Topic: Numbers & Base-Ten System
- **Weeks** 3 – 5: Sections 2.1 – 2.5, Topic: Fractions & Problem Solving
- **Weeks** 6 – 8: Sections 3.1 – 3.5, Topic: Addition & Subtraction
- **Weeks** 9 – 10: Sections 4.1 – 4.6, Topic: Multiplication (Whole numbers)
- **Weeks** 11 – 12: Sections 5.1 – 5.4, Topic: Multiplication (Rational & Signed Numbers)
- **Weeks** 13 – 15: Sections 6.1 – 6.3, Topic: Division (Whole numbers)

**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” (Feb 5)
- Last Day to Drop with a “W” (Apr 4)

**Grading Policy:**
Your grade will be calculated as follows:
- 10% Quizzes
- 15% Homework/Activities
- 25% Exam 1
- 25% Exam 2
- 25% Final Exam

**Make-up Policy:** No makeup exams will be allowed except with proper documentation, i.e. doctor’s note, hospital’s note, or UTEP excused absence document.

**Attendance Policy:** Students are required to attend all class meetings.

**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](http://admin.utep.edu/Default.aspx?PageContentID=2083&tabid=30292).

**Civility Statement:** Please turn off cell phones when you enter class and participate in class, active participation in this class is a vital part of your success.

**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.