1. **Course Number:** MATH 2303-001 (30707)
2. **Course Title:** Number Concepts
3. **Credit Hours:** 3
4. **Term:** Summer 1; 2014
5. **Course Meetings:** 11:40-1:50pm MTWRF Psy 105
6. **Prerequisites:**
   - (MATH 0311 w/C* or better) OR (MATH 1319 w/C or better) OR (MATH 1320 w/C or better) OR (MATH 1508 w/C or better) OR (MATH 2301 w/C or better) OR (MATH 1411 w/C or better) OR (MATH 1312 w/C or better) OR (MATH 2313 w/C or better) OR (MATH 2326 w/C or better) OR (BANM score between 3 and 5) OR (MATH 0311 w/S* or better) OR (ACCL score between 051 and 120 AND BANM score between 3 and 5) OR (BANM score between 3 and 5 AND EPCM score between 051 and 120) OR (BANM score between 3 and 5 AND MAPM score between 714 and 725) OR (BANM score between 3 and 5 AND MATE score between 36 and 48) OR (BANM score between 3 and 5 AND TAKM score between 2200 and 2821) OR (MATH 1411A w/C or better AND MATH 1411B w/C or better AND MATH 1411C w/C or better) OR (MATH 1508A w/C or better AND MATH 1508B w/C or better AND MATH 1508C w/C or better) OR (MDM2 score of Y or above)
7. **Course Fee:** None
8. **Instructor:** Dr. Don Collins
9. **Office Location:** Bell Hall 305
10. **Contact Information:** dwcollins2@utep.edu Office phone 747-6863
11. **Office Hours:** MTWRF 1:30-2:30PM and by appointment
13. **Catalog 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.
14. **Course Objectives:**
   a. Exploration of decimal numeration.
   b. Presentation of the properties of the basic arithmetic operations.
   c. Examination of the heuristics of problem solving including strategies and techniques
   d. Explanation of how the various rules for operations involving fractions, decimals, and integers are derived
e. Explore the relationship between fractions and decimals
f. Emphasize the connection between the various fields of mathematics

15. **Course Activities/Assignments:** To be given in class
16. **Course Schedule:** To be presented

17. **Grading Policy:** Two quizzes 20% each, Assignments 20%, Class Journal 20%. Final exam 20%. The usual grading scale of 90-100% = A, 80-89% = B, 70-79% = C, and so on.

18. **Make up policy:** All work can be made up if done in a timely manner, usually within a week’s time.

19. **Attendance Policy:** It is the student’s responsibility to attend every class. If you miss a class you will miss a lot of information. If you must miss please make arrangements to get class notes from a classmate. If you try to go from one class meeting to the next without studying or doing the assignment you most likely will be completely lost during the next class. Students are expected to arrive for class on time and remain for the entire class period. It is essential to pay close attention and take legible notes. It is essential to read the textbook and work through the example exercises in the text prior to class. Failure to adhere to the above invariably ensures a less than satisfactory grade for this course.

20. ** Civility Statement:** Calculators are not to be shared during quizzes and exams. Please do not use cell phones, pagers, IPods, MP3 Players, blue tooth devices or ect during class. Cell phone and pagers should be set on silent or vibrate and all call should be taken outside of class. Please do not wear Blue tooth or headsets during class. Please do not talk during class. Cell phone calculators may not be used during quizzes or exams. Active participation is expected. Team work in class will be implemented.

21. **Disability Statement:** If a student has or suspects he/she has a disability and need an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or e-mail dss@utep.edu or go to room 106 Union East Building. The student is responsible for presenting the instructor with any accommodation letters and instructions.

22. **Military Statement:** If you are a military student with the potential of being called to military service and/or training during the semester, please contact the instructor by the first week of class.