

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

- Course Number:** MATH 2303 - 17280
- Course Title:** Number Concepts
- Credit Hrs:** 3
- Term:** Fall 2020
- Course Meetings & Location:** TR 1:30 pm – 2:50 pm
Online – Blackboard Collaborate Ultra
- 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: jlr Ramirez3@utep.edu
- Office Hours:** E-mail me to schedule a meeting anytime between 11 am and 7 pm
- Textbook(s), Materials:** Required: Mathematics for Elementary Teachers with Activities (5th Ed)
By Sybilla Beckmann
OPTIONAL: MyMathlab Access Code: ramirez01636
- You will need a device with an internet connection to get into Blackboard. You will need to download Respondus Lockdown Browser and Monitor for exams, and you will need a webcam in order for it to work.
- 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 quizzes, homework assignments, exams and a comprehensive final exam.

Assessment of Course Objectives: All homework assignments will be assessed for completeness and correctness. All quizzes and exams will be assessed for correctness.

Course Schedule:	Weeks	Sections	Topic
	1 – 2	1.1 – 1.4	Numbers & Base-Ten System
	3 – 5	2.1 – 2.5	Fractions & Problem Solving
	6 – 8	3.1 – 3.5	Addition & Subtraction
	9 – 10	4.1 – 4.6	Multiplication (Whole numbers)
	11 – 12	5.1 – 5.4	Multiplication (Rational & Signed Numbers)
	13 – 15	6.1 – 6.3	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” (Sept. 9th)
Last Day to Drop with a “W” (Oct. 30th)

Grading Policy:	Quizzes	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. 10th 1:00 pm – 3:45 pm

Make-up Policy: Late assignments will not be accepted. The lowest grade on homework assignments and quizzes will be dropped. If you miss an exam, it can be made up with permission from the instructor.

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 <https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html>.

Civility Statement: Be polite and respectful to your classmates and instructor. You may only use materials allowed by the instructor during exams.

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.