

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

- Course Number:** MATH 3305-36050
- Course Title:** Proportion and Algebra
- Credit Hrs:** 3
- Term:** Summer I 2020 (June 8 – July 2)
- Online Course Meetings** 75% Synchronous (MTRF 2:00PM – 4:00PM)
25% Asynchronous
- Prerequisite Courses:** MATH 2303 with a grade “C” or better
- Course Fee: (if applicable)** None
- Instructor:** Kien Lim
- Office Location:** Blackboard Collaborate Ultra
- 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:** MTRF: 1:30PM – 2PM & 4:00PM – 4:30PM
- Course Description:** This course focuses on proportional and algebraic reasoning for prospective elementary teachers. Topics include ratios as measures, ratios as multiplicative comparisons, proportions, rates of change, patterns, linear functions and solving linear equations, inequalities and systems. The focus is on identifying relationships between quantities in contextualized problems, using inductive reasoning to identify patterns and express them algebraically making connections among verbal, graphic, numeric and symbolic representations, solving problems, using concrete numeric, tabular, graphic and algebraic methods, and addressing student's misconceptions and errors.
- Course Objectives:** Students will
- (a) deepen their understanding of ratios, proportions, change, and functions by explaining why and making connections;
 - (b) strengthen their quantitative reasoning and algebraic reasoning;
 - (c) conceive mathematics as a problem solving endeavor that involves sense-making and thinking;
 - (d) develop the habits of attending to meaning, of analyzing problem situations, and of making conjectures and providing justifications;
 - (e) develop the skills of active reading and understanding mathematical texts; and
 - (f) cultivate a growth mindset where the focus is learning and effort rather than looking good and performance.

- Textbook(s), Materials:**
1. Mathematics for Elementary Teachers with Activities (5th Ed) by Sybilla Beckmann (use the 20% code “MPS20” for online purchase at www.mypearsonstore.com).
 2. MyMathLab (you need an access code) is assessed through Blackboard.
 3. EdPuzzle.com. Create an account and join the class with id “gekaful.”
 4. Blackboard Collaborate Ultra with Webcam & Microphone
 5. Respondus Lockdown Browser
 6. iClicker Reef
 7. Class Notebook (via OneNote)

- Course Activities/Assignments:**
- For synchronous sessions, students will participate in virtual class activities and engage in group work and whole class discussions.
 - For asynchronous learning, students read and understand the textbook, watch math videos, and generate questions to ask during synchronous sessions.
 - Students are expected to put in an average of 6-7 hours of study time each day for 5 days per week.

- Assessment of Course Objectives:**
- Online assessments are done via MyMathLab, which requires you need to have an access code, and Blackboard with Respondus Lockdown Browser.
 - Students will do their homework on OneNote. Each homework is due by 2 hours before the next class.
 - Examinations are based on your understanding of the concepts. Most exam items require you to think and apply your understanding. To compensate for the higher-cognitive demand questions, the following scale is used for exams:

A	≥ 80%
B	70% - 80%
C	60% - 70%
D	45% - 60%
F	< 45%
 - The final examination is comprehensive, and you are allowed a 2-page of notes for the final exam.

Tentative Schedule:

June 8	Sections 6.1 – 6.3
June 9	Section 6.4
June 11	Sections 6.5 – 6.6
June 12	Section 7.1
June 15	Sections 7.2 – 7.3
June 16	Sections 7.4 – 7.5
June 18	Sections 7.6 & 9.1
June 19	Mid-term Exam
June 22	Sections 9.2 – 9.3
June 23	Sections 9.4 – 9.5
June 25	Sections 8.1 – 8.2
June 26	Sections 8.3 – 8.4
June 29	Sections 8.5 – 8.6
June 30	Section 9.6
July 2	Section 9.7

Important Dates: Census Day (Last Day to Drop without W): June 10
Course Drop Deadline (Last Day to Drop with a “W”): June 26
No drop is allowed after June 26

Grading Policy: Online Participation & Engagement 20%
Homework & Online Assessments 30%
Mid-term Examination (June 22) 20%
Final Examination (July 6, 2pm-5pm) 30%

TEExES Competencies: TExES 291 (Generalist EC-6)
Competencies 1F, 2A-2D, 2F-2G, 2J-2K, 3A-3K, 6D-6K,

Make-up Policy:

- There will be no make-up for assignments and assessments. The lowest score of your homework 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, 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 20% 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 by the end of the first week of class.