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

Course Number: MATH 3308 - 21020  
Course Title: Proportion & Algebraic Reasoning I  
Credit Hrs: 3  
Term: Spring 2022  
Course Meetings & Location: TR 12:00 pm – 1:20 pm  
EDUC 309  
Prerequisite Courses: MATH 2303 with a grade “C” or better  
Instructor: Jeremy L. Ramirez  
Office Location: Library 515 or ONLINE  
Contact Info: E-mail Address: jlramidez3@utep.edu  
Office Hours: After class or Mon. – Fri. by appointment.  
Textbook(s), Materials: Required: Mathematics for Elementary Teachers with Activities (5th Ed)  
By Sybilla Beckmann  
Respondus Lockdown Browser  
OPTIONAL: MyMathLab code: ramirez21880  
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.  
Course Activities/Assignments: Course activities will include classroom activities/discussions, homework assignments, quizzes, midterm 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>
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<tbody>
<tr>
<td>1 – 3</td>
<td>6.4 – 6.6</td>
<td>Division</td>
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<tr>
<td>4 – 6</td>
<td>7.1 – 7.6</td>
<td>Ratio &amp; Proportional Relationships</td>
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<tr>
<td>7 – 9</td>
<td>8.1 – 8.6</td>
<td>Number Theory</td>
</tr>
<tr>
<td>10 – 12</td>
<td>9.1 – 9.4</td>
<td>Expressions, Variables, Equations</td>
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<tr>
<td>13 – 15</td>
<td>9.5 – 9.7</td>
<td>Sequences &amp; Functions</td>
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</tbody>
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TExES Competencies:
- Competencies 15, 18, & 14 (Generalist EC-6)
- Competencies 19, 22, & 18 (Bilingual Generalist EC-6)
- Competencies 12, 13, 14, 15 & 24 (Generalist 4-8)
- Competencies 16, 17, 18, 19 & 28 (Bilingual Generalist 4-8)
- Competencies 3, 4, 5, 15 & 16 (Mathematics 4-8)

Important Dates:
- Census Day – Last Day to Drop without a “W” (Feb. 2nd)
- Last Day to Drop with a “W” (April 1st)

Grading Policy:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Grade Range</th>
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<tbody>
<tr>
<td>Quiz Average</td>
<td>15%</td>
<td>A=90 and above</td>
</tr>
<tr>
<td>Homework Average</td>
<td>15%</td>
<td>B=80-89</td>
</tr>
<tr>
<td>Exam 1</td>
<td>20%</td>
<td>C=70-79</td>
</tr>
<tr>
<td>Exam 2</td>
<td>20%</td>
<td>D=60-69</td>
</tr>
<tr>
<td>Final Exam*</td>
<td>30%</td>
<td>F=59 and below</td>
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**Final Exam Friday, May 13th, 1:00 pm – 3:45 pm**

Make-up Policy: Late assignments will not be accepted. If you are absent from class the day homework is due, you must submit your homework by e-mail before the end of the day. 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 is required.

Drop Policy: According to UTEP Curriculum and Classroom Policies, “When, in the judgment of the instructor, a student has been absent to such a degree as to impair his or her status relative to credit for the course, the instructor may drop the student from the class with a grade of “W” before the course drop deadline and with a grade of “F” after the course drop deadline.” See academic regulations in the UTEP Undergraduate Catalog for a list of excuse absences.

If you are not attending class nor are you turning in assignments, you may be dropped from the course.

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: Calculators may not be shared during quizzes and exams. Please do not use any electronic devices during class. Cell phones should be set to silent or vibrate, and any calls should be taken outside of class. Please do not wear headsets or blue tooth devices during class. Please don’t talk during lectures. Cell phone calculators may not be used on quizzes or exams. Active participation in class is expected, teamwork in class will be implemented.
**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 semester, please contact me by the end of the first week of class.

**Covid-19 Accommodations:** Students are not permitted on campus when they have a positive Covid-19 test, exposure or symptoms. If you are not permitted on campus, you should contact me as soon as possible so we can arrange necessary and appropriate accommodations. Students who are considered high risk according to CDC guidelines and/or those who live with individuals who are considered high risk may contact Center for Accommodations and Support Services (CASS) to discuss temporary accommodations for on-campus courses and activities. Apply at cassportal.utep.edu and fill out a three-question application. You will be scheduled to meet with disability coordinator to discuss your unique situation.
Covid-19 Precautions: You must stay at home and report if you (1) have been diagnosed with Covid-19, (2) are experiencing Covid-19 symptoms, or (3) have had recent contact with a person who has received a positive Covid-19 test. Reports should be made at screening.utep.edu. If you know of anyone who should report any of these three criteria, you should encourage them to report. If the individual cannot report, you can report on their behalf by sending an email to covidaction@utep.edu.

For each day that you attend campus—for any reason—you must complete the questions on the UTEP screening website (screening.utep.edu) prior to arriving on campus. The website will verify if you are permitted to come to campus. Under no circumstances should anyone come to class when feeling ill or exhibiting any of the known Covid-19 symptoms. If you are feeling unwell, please let me know as soon as possible, and alternative instruction will be provided. Students are advised to minimize the number of encounters with others to avoid infection. Please contact me immediately if you fall ill during the semester so that we can work together to formulate a strategy to help you get caught up as soon as you are physically able.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high Covid-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.