

BNBM MATH 0302
Beginning Algebra
Western Texas College

- I. Basic Course Information
 - A. Course Description: This course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving. This course will not apply toward graduation requirement and will not transfer as a credit math course. This course will not apply toward graduation requirements and will not transfer as a credit math course.
 - B. Any required prerequisites: Students must have the appropriate placement test scores.
 - C. The grade students earn in MATH 0302 will be reflected in the grade for the BNBM 0302 course.
 - D. Online course content is administered through the college's learning management system (LMS), Moodle, also called eCampus. A link to eCampus can be found on mywtc.edu and to Moodle (the big M with a graduation cap) on the college's home page, www.wtc.edu.
- II. Student Learning Outcomes
 - A. Use appropriate symbolic notation and vocabulary to communicate, interpret, and explain mathematical concepts.
 - B. Define, represent, and perform operations on real numbers, applying numeric reasoning to investigate and describe quantitative relationships and solve real world problems in a variety of contexts.
 - C. Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.
 - D. Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.
 - E. Use graphs, tables, and technology to analyze, interpret, and compare data sets.
 - F. Construct and use mathematical models in verbal, algebraic, graphical, and tabular form to solve problems from a variety of contexts and to make predictions and decisions.
- III. Major Course Requirements
 - A. Major Requirement – Tests (40%), Final Exam (25%)
 - B. Major Requirement – Homework/Quizzes (20%), Labs/In class activities (10%), Required Attendance in companion BNBM 0302 (5%), The grade made in MATH 0302 will be the same grade for BNBM 0302
 - C. Grades: A = 93 – 100, B = 83 – 92, C = 76 – 82, D = 60 – 75, F = 59 and below
- IV. Information on Books and Other Course Materials

- A. Required Book: MyLab Access Code: ISBN-13: 9780134708805 This access code comes with an ebook. If you prefer a regular book purchase Prealgebra, 8th edition, by Martin Gay ISBN: 9780134708799. There are also bundles available.
- B. Calculators: Calculators are allowed in this course.
- V. Other Policies, Procedures and important dates - See the [Western Texas College Catalog](#).
 - A. Campus Calendar
 - B. Final exam schedule
 - C. How to drop a class
 - D. Withdrawal information
 - E. Student Conduct/Academic Integrity
 - F. Students with disabilities
- VI. Course Topics - Below are the main topics covered in this course. Each topic requires prerequisite knowledge; therefore other topics may also be covered to ensure student success. Topics are subject to change.

| Topics |
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| Similarity Simplifying and Evaluating Algebraic Expressions Translating English Phrases and Algebraic Expressions Solving Linear Equations Applications: Number problems and consecutive integers Applications: Percent Working with Formulas Applications: Distance-rate-time, Interest, Mean The Cartesian Coordinate System Graphing Linear Equations in Two Variables The Slope Intercept Form Linear Inequalities in One or Two Variables Exponents Addition, Subtraction, and Multiplication of Polynomials |
| Various Lab activities exploring the application of the mathematics learned will included. |

Disclaimer: Content is subject to change at the instructor's discretion.