

Elementary Algebra

MAT 095

INSTRUCTOR: Brian F. Kennedy

Office: C-156

Phone: 383-5281

e-mail: mathbk@yahoo.com

REQUIRED TEXT: *Elementary and Intermediate Algebra: Graphs and Models* 4th ed. by Bittinger, Ellenbogen and Johnson.

CREDIT: 3 credit hours (Note: this course credit does not count towards graduation requirements.)

COURSE DESCRIPTION: This course extends the basic algebra skills acquired in math 075 or equivalent. The topics include; solving and applying linear equations and inequalities, exponents, polynomials, factoring, graphing, systems of equations and scientific notation.

PREREQUISITE: MAT 075, appropriate placement test score or equivalent.

GRADING POLICY: A student will receive one of the following grades: A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, I, W, P or Audit. Determination of that grade will be based on the following. Throughout the semester there will be four, 100 point exams (an exam will be announced at least one week prior to its administration). A comprehensive final exam worth 200 points. Quizzes throughout the semester totaling 100 points. Your final grade will be computed by totaling all the points earned on the three tests, quizzes and final exam grade then dividing that total by the 700 possible points.

Grade Equivalents:	A 93 - 100	B 83 - 86	C 73 - 76	D 63 - 66
	A- 90 - 92	B- 80 - 82	C- 70 - 72	D- 60 - 62
	B+ 87 - 89	C+ 77 - 79	D+ 67 - 69	F 59 or less

Students will need a separate notebook for homework and homework may be checked at the start of class. Quizzes will be during the first 15 minutes of class and cannot be made up. No test can be made up without prior arrangement with the instructor. All makeup tests will take place during final exam week.

COLLEGE WITHDRAWAL POLICY: A student who finds it necessary to discontinue a course must complete a withdrawal form in the Registrar's Office at the time of withdrawal. Students may withdraw from class anytime during the first ten weeks without being in good standing or obtaining prior permission of the instructor. After that period, a student wishing to withdraw must obtain written authorization of the instructor to receive a "W" grade for the course. Students who do not withdraw, but stop attending will be assigned an "NC". Eligibility for refund of tuition is based upon date of withdrawal when received by the registrar. Verbal withdrawals cannot be accepted.

DISABILITIES STATEMENT: If you have a hidden or visible disability which may require classroom or test-taking modifications, please see me as soon as possible. If you have not already done so, please be sure to register with Chris Scarborough.

ACADEMIC INTEGRITY POLICY

All students are expected to demonstrate their knowledge of the material on each quiz and test. Any student caught cheating will receive a zero on that test.

CLASS CANCELTION POLICY

If class is canceled by the instructor a notice will be placed on the classroom door. If time permits, the class will be notified by email.

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Course Outline (subject to change)

Date	Chapters (Sections) covered	Course Outcomes
1/24		Evaluate algebraic expressions
1/29	Ch.2.1 - 2.2	Determining if a given number is a solution to an equation or an inequality
1/31	Ch. 2.3 - 2.4	Determining if an ordered pair is a solution to a linear equation in 2 variables
2/5	Ch. 2.5	Add, subtract, multiply, and divide real numbers and raise a real number to an integer power
2/12	Ch. 2.6 - 2.7	Add, subtract, multiply, and divide Polynomials
2/14	Review	Simplify, add, subtract, multiply, and divide Radicals
2/19	Test #1	Rules for Exponents
2/21	Ch. 3.1 - 3.2	Greatest Common Factor (factoring)
2/26	Ch. 3.3 - 3.4	Factor by Grouping
2/28	Ch. 3.5 - 3.6	Factor trinomials of the form $x^2 + bx + c$
3/5	Ch. 3.7 - 3.8	Factor trinomials of the form $ax^2 + bx + c$
3/7	Review	Factor Perfect Square Trinomials
3/12	Test #2	Factor the Difference of Two Squares
3/14	Ch. 4.1 - 4.2	Factor Completely
3/26	Ch. 4.2 - 4.3	Converting between Scientific Notation and standard notation
3/28	Ch. 4.3 - 4.4	Order of Operations (manipulation)
4/2	Ch. 4.4 - 4.5	Properties of Real Numbers (manipulation)
4/4	Review	Simplifying Algebraic Expressions (manipulation)
4/9	Test #3	Graphing in a Rectangular Coordinate System
4/11	Ch. 5.1 - 5.2	Graphing Linear Equations by plotting points, using intercepts, and using the Slope-Intercept form
4/16	Ch. 5.3 - 5.4	Graphing the solution to a Linear Inequality in one variable.
4/18	Ch. 5.5 - 5.6	Graphing a System of Linear Equations in two variables
4/23	Ch. 5.7, 5.9	Rates of change (slopes)
4/25	Ch. 6.1 - 6.2	Identifying Linear Equations (Linearity)
4/30	Ch. 6.2 - 6.3	Solving Linear Inequalities in one variable
5/2	Ch. 6.3 - 6.4	Finding the Equation of a Line (manipulation)
5/7	Review	Solving Linear Equations in one variable
5/9	Test #4	Solving formulas for a specified variable
5/14	Review	Solving a System of Linear Equations in two variables (two methods)
5/16	Final Exam part I	Solving equations with degree 2 or greater by factoring
5/21	Final Exam part II	Two forms for the equation of a line (transforming back and forth)
		Finding an unknown number word problem
		Solving consecutive numbers (including odd and even) word problems
		Solving dimension problems using geometric formulas
		Solving Percent and Mixture problems
		Solving table problems such as rate, time, and distance
		Solving linear inequality problems
		Solving linear equation in two variables problems
		Solving System of 2 linear equations in 2 variables word problems
		Solving factorable Quadratic Equation word problems

Name:

Tutor:

Date:

Topics Covered: