

ELEMENTARY ALGEBRA
MAT 0110-AA01, MAT 0120-AA01, MAT 0130-AA01 - Room: Learning Center
Mineral Area College
Spring 2012 - 3 Credit Hours

Instructors:	Greg Branham	Office Hours:	7:30 - 11:00	M,T,R, F
			10:00 - 11:00	W
	Natalya Weir		12:00 - 3:00	M - F
			7:30 - 12:00	M
	Jayson Smith		7:30 - 3:00	W, F
			3:00-8:00	M
			9:00-11:30,	T, R
			5:00-8:00	T, R
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ATTENDANCE POLICY:

1. Students who miss 2 classes will be dropped for non-attendance.

EVALUATION PROCEDURE:

All work is graded and a numerical score is assigned. The final grade is determined by using a total point average. **** **I DO NOT ROUND GRADES!** **** A 79.9 % is not an 80% and therefore is NOT a B.

GRADING SCALE:

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D

NON-DISCRIMINATION POLICY:

Mineral Area College does not discriminate on the basis of race, color, national origin, gender disability, age, religion, creed, marital or parental status. For more information, call the Title VI, Title IX, Sec. 504 and ADA coordinator at (573) 431 - 4593 or U.S. Dept. of Education, Office of Civil Rights.

COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT:

Mineral Area College complies with guidelines set forth in the Americans with Disabilities Act of 1990. If you have special needs as addressed by the Americans with Disabilities Act and need assistance with this or any portion of the registration/education process, notify the Learning Center Director or the director of the Access Office.

MAC PLAGIARISM POLICY:

Students who engage in dishonest acts such as plagiarism or other forms of cheating in meeting the requirements of this course will be notified by the instructor that they are receiving an F for that assignment. Your actions may also cause you to receive an F in this class. Students who wish to appeal the decision of the instructor on a matter of dishonesty may do so under the Procedural Policy for Disciplinary Action. Under that policy, the student is subject to suspension from college for acts of dishonesty.

CELL PHONES, TEXT MESSAGING DEVICES, AND PAGERS MUST BE TURNED OFF

Read syllabus carefully as you are responsible for understanding its content

HONORS OPTION: The Honors Option is **NOT** offered as part of this class.

COURSE DESCRIPTION: This is an individualized instruction program. The module covers basic arithmetic concepts such as whole numbers, multiplication, and division of fractions. Calculators may not be used until chapter 2.

PREREQUISITE: A minimum ACT score of 13; Compass Algebra score of 16-25; a grade of "C" or better in MAT0900 or Learning Center Modules MAT0020, MAT0030 and MAT0040

COURSE OUTLINE:

I. Materials

- A. Textbook: *Introductory Algebra*, Franklin D. Wright. Hawkes Learning Systems/Quant Systems, Inc. 2009. 6th Edition. (Not Required)
- C. Software: Hawkes Learning Systems/Quant Systems, Inc. 2010. **Required.**
- B. Supplies: 3-ring binder with loose leaf paper (recommended) or spiral notebook

II. Course Objectives

- A. To review fundamental operations of whole numbers, fractions and decimal numbers.
- B. To introduce ratio and proportion, measurement, algebraic concepts and geometric applications.
- C. To develop the skills necessary for subsequent math courses

III. Learning Experiences

- A. Class discussion
- B. Daily assignments
- C. Supplemental textbook materials
- D. Tutoring services: math lab (located in LRC) and EXCEL

IV. COURSE OUTLINE:

- A. An Introduction to Algebra (Chapter R)
 - a. Exponents and Order of Operations (R.1)
 - b. Prime Numbers, Factoring, and LCM (R.2)
 - c. Fractions (R.3 and R.4)
 - d. Decimals and Percents (R.5)
- B. Integers and Real Numbers (Chapter 1)
 - a. The Real Numbers and Absolute Values (1.1)
 - b. Adding and Subtracting Integers (1.2 and 1.3)
 - c. Multiplying and Dividing Real Numbers (1.4)
 - d. Properties of Real Numbers (1.5)
- C. Fractions with Variables and Algebraic Expressions (Chapter 2)
 - a. Simplifying and Evaluating Algebraic Expressions (2.1)
 - b. Multiplication and Division with Fractions (2.2)
 - c. Addition and Subtraction of Fractions (2.3)
 - d. Decimal Numbers and Fractions (2.4)
 - e. Order of Operations, Negative Numbers, and Fractions (2.5)
 - f. Translating English into Algebraic Expressions (2.6)

IV. CONT'D

- D. Solving Equations and Inequalities (Chapter 3)
 - a. Solving Linear Equations (3.1)
 - b. Applications of Linear Equations (3.2)
 - c. More Linear Equations (3.3)
 - d. Solving Linear Inequalities (3.4)
 - e. Working with Formulas (3.5)
 - f. Applications Graphing (3.6, - 3.8)

- E. Graphing Linear Equations (Chapter 4)
 - a. Cartesian Coordinate System (4.1)
 - b. Graphing Linear Equations (4.2)
 - c. Slope-Intercept Form (4.3)
 - d. Point-Slope Form (4.4)
 - e. Graphing Linear Inequalities (4.6)
 - f. Solutions by Graphing (5.1)

- F. Exponents and Polynomials (Chapter 6)
 - a. Exponents (6.1)
 - b. Exponents and Scientific Notation (6.2)
 - c. Introductions to Polynomials (6.3)
 - d. Adding and Subtracting Polynomials (6.4)
 - e. Multiplying Polynomials (6.5)
 - f. Special Products (6.6)
 - g. Division of Polynomials (6.7)

- G. Factoring and Quadratic Equations (Chapter 7)
 - a. The Greatest Common Factor: Factoring by Grouping (7.1)
 - b. Factoring Trinomials of the Form $x^2 + bx + c$ (7.2)
 - c. Factoring Trinomials of the $ax^2 + bx + c$ (7.3)
 - d. Difference of Two Square and Perfect Square Trinomials (7.4)

TENTATIVE ASSIGNMENT SCHEDULE:

Assignments will be discussed individually on an as needed basis per instructor. Generally 1 chapter will be covered every two weeks. There will not be a comprehensive final.

Note: The only way that you can successfully complete these chapters is through regular attendance and by doing the work that is assigned. You are laying the foundation you will need when you reach higher levels of math.

IMPORTANT NOTES:

- SET DAILY STUDY SESSIONS.
- If you need assistance understanding the problems you are working, **see a Math Lab Instructor.**
- Study Groups
- Excel help may be available
- Take Notes – Get ahead and stay ahead
- Group tutoring sessions are available by appointment.

****The instructor reserves the right to alter the syllabus as needed.****

2012/1