Professor Ellen Freedman
Office: Madison202C, Phone: 227-7200 ext. 4712
E-Mail: efreedman@camdencc.edu
Web Address:
http://www.mathpower.com

ELEMENTARY ALGEBRA ONLINE
COURSE DESCRIPTION, POLICIES & OUTLINE

TEXTS:
♦ <u>Introductory Algebra</u> by Miller, O'Neill & Hyde, **3rd Edition**, McGraw Hill, Inc., 2015
♦ <u>Elementary Algebra Workbook</u> by Bogardus, Flacche, Freedman, Jackson, & Tannen, 3rd Edition, McGraw Hill, Inc., 2019

COURSE DESCRIPTION:
  This course is designed to provide the student with the basic algebraic concepts and skills necessary to meet the prerequisites for college level math courses. The course includes the arithmetic and algebra of counting numbers, integers, and rational numbers. Main topics include: the arithmetic and factoring of polynomials, the simplifying of rational and irrational expressions, laws of exponents, solving and graphing linear equations solving and graphing linear equations, solving fractional and quadratic equations, solving systems of equations, and the application of these concepts to word problems.

ATTENDANCE POLICY:
  Attendance in an online class can be measured in many ways. Any correspondence using email or online office hours to ask questions is attendance. Doing Connectmath work is attendance. Completing tests and quizzes is attendance. While attendance is not part of your grade, I am required to report whether you have satisfactory attendance. Any of the above activities qualify, simply logging in does not qualify.

GRADING POLICY:
Grades will be based on 2-3 exams, quizzes and a final exam. The final exam will count as any major test. An average of "D" is necessary to pass the course.

A	90 - 100
B	80 - 89
C	70 – 79
D	60 – 69
RV	Recommended for 4 day Algebra Express Course
F	Below 60

ConnectMath: On-line <u>Homework</u> Assignments– <u>10%</u> of Class Average, On-line <u>Tests & Quizzes – 90%</u> of Class Average

ConnectMath Course Code: FGTFE-ARRTR Go to www.connectmath.com for on line assignments & help. Click on the link marked "Sign up now" (in the center, towards the lower part of the page, under NEW USER) and supply the course code with other information when prompted.

For students who are repeating the course or who already have a connect account for this textbook:
Sign in and choose "Edit Profile" in the top right corner of the Connect Math Home screen. Reenter your password, then select "Change Course" in the middle of the screen, and put in your new course code.

CLASSROOM WEBPAGE: Go to www.mathpower.com , scroll down left hand side click on On-Line Course Info, enter password: homework, DO NOT HIT Enter, click "Proceed".

Camden County College is committed to providing reasonable accommodations for all persons with disabilities. If you have specific physical, psychiatric, or learning disabilities and require accommodations, please contact the PACS Office (Disability Support Services Office) at (856) 227-7200, Extension 4430, as soon as possible to ensure that such accommodations can be implemented in timely fashion.

Chapter 1

1.1   Sets of Numbers & the Real Number Line

1.2   Exponents, Square Roots, & the Order of Operations
1.3. Addition of Real Numbers
1.4   Subtraction of Real Numbers
1.5   Multiplication & Division of Real Numbers
1.6   Simplifying Expressions

Chapter 2
2.1 Addition, Subtraction, Multiplication & Division
      properties of Equality Property

2.2 Solving Linear Equations
2.3 Clearing Fractions & Decimals in Equations
2.4 Applications of Linear Equations
2.6 Formulas & Applications of Geometry
2.7 Mixture Applications & Motion
2.8 Linear Inequalities

Chapter 3

3.1 Rectangular Coordinate System
3.2 Linear Equations in Two Variables

3.3 Slope of a Line

Chapter 4
4.1 Solving Systems of Equations by Graphing
4.2 Solving Systems of Equations by Substitution
4.3 Solving Systems of Equations by Addition
4.4 Applications of Linear Equations in Two Variables

Chapter 5
5.1 Exponents: Multiplying & Dividing Common
      Bases
5.2 More Properties of Exponents   Signed Numbers
5.3 Zero & Negative Exponents
5.4 Scientific Notation
5.5 Addition & Subtraction of Polynomials
5.6 Multiplication of Polynomials
5.7 Division of Polynomials

Chapter 6

6.1 Greatest Common Factor & Factoring by
      Grouping
6.2 Factoring Trinomials of the Form $x^2 + bx + c$
6.3 Factoring Trinomials: Trial & Error Method
6.4 Factoring Trinomials: AC Method
6.5 Difference of Squares
6.7 Solving Equations Using the Zero Product Rule

Chapter 7

7.1 Introduction to Rational Expressions
7.2 Multiplication & Division of Rational
      Expressions
7.3 Least Common Denominator
7.4 Addition & Subtraction of Rational Expressions
7.6 Rational Equations
7.7 Applications of Rational Equations & Proportions

Chapter 8

8.1 Introduction to Roots & Radicals
8.2 Simplifying Radicals

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