

**Professor Freedman SYLLABUS FOR ELEMENTARY ALGEBRA Spring 2012**

**Chapter 1**

- 1.1 Properties of Signed Numbers
- 1.2 Adding & Subtracting Signed Numbers
- 1.3 Multiplying & Dividing Signed Numbers
- 1.4 From Arithmetic to Algebra
- 1.5 Evaluating Algebraic Expressions
- 1.6 Adding & Subtracting Terms
- 1.7 Multiplying & Dividing Terms

**Chapter 2**

- 2.1 Solving Equations by the Addition Property
- 2.2 Solving Equations by the Multiplication Property
- 2.3 Combining the Rules to Solve Equations
  
- 2.4 Formulas & Problem Solving
  
- 2.5 Applications of Linear Equations
- 2.6 Inequalities – An Introduction

**Chapter 3**

- 3.1 Exponents & Polynomials
- 3.3 Adding & Subtracting Polynomials
- 3.4 Multiplying Polynomials
- 3.5 Dividing Polynomials

**Chapter 4**

- 4.1 An Introduction to Factoring
- 4.2 Factoring Trinomials ( $x^2 + bx + c$ )
- 4.3 Factoring Trinomials ( $ax^2 + bx + c$ )
- 4.4 Difference of Squares
- 4.5 Strategies in Factoring
- 4.6 Solving Quadratic Equations by Factoring

**Chapter 5**

- 5.1 Simplifying Rational Expressions
- 5.2 Multiplying & Dividing Rational Expressions
- 5.3. Adding & Subtracting Like Fractions
- 5.4 Adding & Subtracting Unlike Fractions
- 5.6 Equations Involving Rational Expressions

**Chapter 6**

- 6.1 Solutions of Equations in Two Variables
- 6.2 The Rectangular Coordinate System
- 6.3 Graphing Linear Equations

**Chapter 7 – 7.5 Function Notation**

**Chapter 8**

- 8.1 Systems of Linear Equations: Solving by Graphing
- 8.2 Systems of Linear Equations: Solving by Adding
- 8.3 Systems of Linear Equations: Solving by Substitution

**Chapter 9**

- 9.1 Roots & Radicals
- 9.2 Simplifying Radical Expressions
- 9.3 Adding & Subtracting Radicals
- 9.4 Multiplying & Dividing Radicals

**SCHOOL CLOSING NUMBER: 559**

**THE FINAL EXAMINATION WILL BE ADMINISTERED ON THE LAST DAY OF CLASS !!!!**

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