

**College of Staten Island  
Department of Mathematics**

**COURSE OUTLINE  
Mth 015 – Elementary Algebra**

Fall 2008 DM, MT

**Text:** Elementary Algebra, Concepts and Applications, 7<sup>th</sup> Edition, by Bittinger/Ellenbogen, with *MyMathLab Student Access Kit*; Pearson Custom Publishing / Addison Wesley  
(Available only in the CSI Campus Bookstore)

**\*\*\*\*NO Calculators**

<b>WEEK</b>	<b>LECTURE</b>	<b>SECTION</b>	<b>TOPICS</b>	<b>HOMEWORK PROBLEMS</b>
<b>I</b>	1	1.1	Evaluate Variable Expressions Translating Verbal Expressions to an Algebraic Expression or Equation	<b>All Homework is to be done on line using MyMathLab software and <u>access code</u> that was packaged with the course textbook</b>
		1.2	Simplify Variable Expressions	
	2	1.3	Fraction Notation,	
		1.4	Integers, Absolute Value	
	3	1.5	Addition of Real Numbers	
1.6		Subtraction of Real Numbers		
<b>II</b>	4	1.7	Multiplication and Division of Real Numbers	
	5	1.8	Exponents and Order of Operations	
		6	2.1	Solving Equation: Addition Principle Multiplication Principle
	7	2.2	General Equations	
2.3		Formulas		

	8	2.4	Percent Equations and Applications	
<b>III</b>	9	2.5	Translating Sentences into Equations and Solving	
	10	2.5	Perimeter Problems	
	11	2.6	Solving Inequalities	
	12		<b>REVIEW</b>	<b>Review Sheet Handout</b>
<b>IV</b>	13		<b>EXAM #1</b>	
	14	2.5	Consecutive Integer Word Problems	
	15	2.5	Word Problems and Applications	
	16	3.1	Reading Graphs Plotting Points	
<b>V</b>	17	3.2	Graphing Linear Equations	
	18	3.2	Graphing Linear Equations	
	19	3.3	Graphing Using Intercepts	
	20	3.5	Slope	
			<b>First COMPASS Testing</b>	
<b>VI</b>	21	3.5	Slope	
	22	3.6	Equation of a Line - Slope- Intercept Form	
	23	3.7	Equation of a Line - Point Slope Form	
	24		<b>REVIEW</b>	<b>Review Sheet Handout</b>
<b>VII</b>	25		<b>EXAM # 2</b>	

	26	4.1	Integer Exponents	
	27	4.2 4.3	Polynomials Addition and Subtraction	
	28	4.4	Multiplying Polynomials & Rules for Exponents	
<b>VIII</b>	29	4.5	Multiplying Polynomials – FOIL	
	30	4.5	Multiplying Polynomials – Special Products	
	31	4.7	Division of Polynomials	
	32	4.8	Negative Exponents & Scientific Notation	
<b>IX</b>	33	5.1	Factoring	
	34	5.2	Factoring Trinomials with leading coefficient of 1	
	35	5.4	Factoring Perfect Square Trinomials	
	36	5.4	Difference of Two Squares	
<b>X</b>	37	5.6	Solving Quadratic Equations by Factoring	
	38	5.6	Solving Quadratic Equations by Factoring	
	39		<b>REVIEW</b>	<b>Review Sheet Handout</b>
	40		<b>EXAM #3</b>	
<b>XI</b>	41	6.1	Rational Expressions	
	42	6.2	Multiplication and Division of Rational Expressions	

	43	6.3	Addition and Subtraction of Rational Expressions with <u>like</u> denominators	
	44	6.4	Addition and Subtraction of Rational Expressions with <u>unlike</u> denominators	
<b>XII</b>	45	6.6	Solving Rational Expressions	
	46	6.7	Applications using Rational Equations and Proportions	
	47	6.7	Applications using Rational Equations and Proportions	
	48	8.1	Simplify Radicals	
<b>XIII</b>	49	8.2	Multiply and Simplify Radicals	
	50	8.6	Pythagorean Theorem	
			<b>Second COMPASS Testing</b>	
	51		<b>REVIEW</b>	<b>Review Sheet Handout</b>
	52		<b>EXAM # 4</b>	
<b>XIV</b>	53		<b>FINAL EXAM REVIEW</b>	
	54		<b>FINAL EXAM REVIEW</b>	
	55		<b>FINAL EXAM REVIEW</b>	
	56		<b>FINAL EXAM REVIEW</b>	