Math 1310 Self-Paced College Algebra

TLE CD Lesson Title	TLE CD Subtitle
1. Real Numbers	The Real Number System Solving Problems Operations with Real Numbers
2. Radicals	Rational Exponents Simplifying Radical Expressions Multiplying and Dividing Radical Expressions
3. Linear Equations	Simplifying Algebraic Expressions Solving Linear Equations and Formulas Applications of Equations The Rectangular Coordinate System
4. Polynomial and Factoring	Multiplying Polynomials The Greatest Common factor and Factoring by Grouping Factoring Trinomials and Difference of Squares
5. Rational Expressions	Rational Expressions (Finding Equivalent Forms) Non-Permissible Values Multiplying and Dividing Rational Expressions Adding and Subtracting Rational Expressions Solving Relational Equations
6. Relations and Functions	Difference between Relations and Functions Describing Functions Function Notation Domain and Range of Relations Sum and Difference of Two cubes Dividing Polynomials by Binomials
7. Linear Functions	Linear Functions Direct and partial Variation Rate of Change and Slope of a Line Determining the Equation of a Line Parallel and Perpendicular Lines
8. Linear Systems	Solving Linear Systems by Graphing Solving Linear Systems by Elimination Solving Three Equations in Three Variables

9. Functions	Functions and Operations Inverse Functions Graphs of Quadratic Functions Computing the Squares Translations of Quadratic Functions Circles
10. Quadratic Equations	Solving Quadratics by Graphing Solving Quadratics by Factoring Complex Numbers The Quadratic Formula Using Discriminants and Graphs
11. The Fundamental Theorem of Algebra	Graphs of Polynomial Functions The Fundamental Theorem of Algebra Classification of Roots Graphs of Rational Functions
12. Solving Equations	Absolute Value Equations Radical Equations Rational Equations Rational Inequalities 1 Rational Inequalities 2 Complex Fractions
13. Exponential and Logarithmic Functions	Exponential Equations Graphing Exponential Functions Exponential Functions Properties of Logarithms Logarithmic Equations Graphing Logarithmic Functions Applications of Logarithms Base -e Exponential Functions Base -e Logarithms