

Western Career Prep High School Algebra Two A Pacing Guide CC
Resource: 2007 Holt Algebra 1 textbook
Units developed according to the MAISA CC Units and Focus Questions
Teacher and textbook developed summative and formative assessments

First Semester

Unit 1: Univariate Data and Distributions Packet

Organizing and Describing Data

Frequency/Histograms

Data Distributions

Probability

Independent Variables and Dependent Variables

Combinations and Permutations

EXT: Representing Data with Box Plots

Unit 2: Using Tools to Model and Solve: Matrices and Vectors

4-1 Matrices and Data

4-2 Multiplying Matrices

4-3 Using Matrices to Transform Geometric Figures

4-4 Determinants and Cramer's Rule

4-5 Matrix Inverse and Solving Systems of Equations

Unit 3: Exponential and Logarithmic Functions

7-1 Exponential Functions, Growth and Decay

7-2 Inverse of Relations and Functions

7-3 Logarithmic Functions

7-4 Properties of Logarithms

7-5 Exponential and Log Equations and Inequalities

7-6 The Natural Base e

7-7 Transforming Exponential and Log Functions

Unit 4: Rational Expressions and Functions

8-1 Variation Functions

8-2 Mult/Dividing Rational Expressions

8-3 Adding/Subtracting Rational Expressions

8-4 Rational Functions

8-5 Solving Rational Equations and Inequalities

8-6 Radical Expressional and Rational Exponents

8-7 Radical Functions

8-8 Solving Radical Equations and Inequalities

Unit 5: Sequences and Series

12-1 Intro to Sequences

12-2 Series and Summation Notation

12-3 Arithmetic Sequences and Series

12-4 Geometric Sequences and Series

12-5 Mathematical Induction and Infinite Geometric Series

Each student takes a pre and post test and must show at least a 10% growth to earn credits in the course. Within each unit students demonstrate knowledge with a hands on project and answer focus questions to demonstrate they are ready to move on to the next unit.