

HHS MATH DEPARTMENT

COURSE: Algebra 1 (with Quadratics and Factoring) I/II
1014/1015 (NCAA)

RIGOR: Accelerated (Above grade level) **Average** (On grade level) **Essentials** (Core concepts)

Pre-requisites: Linear Algebra (8th grade)

Course Description: This course contains the following topics: polynomials, exponents, factoring, quadratic and exponential functions, rational and radical expressions, data analysis and probability.

Course Syllabus:

Semester 1

- Chapter 1:** Solving Linear Equations (Sections 1-5)
- Chapter 2:** Solving Linear Inequalities (Sections 1-6)
- Chapter 3:** Graphing Linear Functions (Sections 1-7)
- Chapter 4:** Writing Linear Functions (Sections 1-7)
- Chapter 5:** Solving Systems of Linear Equations (Sections 1-7)
- Chapter 6:** Exponential Functions and Sequences (Sections 1-4)

Semester 2

- Chapter 6:** Exponential Functions and Sequences (Sections 5-7)
- Chapter 7:** Polynomial Equations and Factoring (Sections 1-8)
- Chapter 8:** Graphing Quadratic Functions (Sections 1-6)
- Chapter 9:** Solving Quadratic Equations (Sections 1-6)
- Chapter 10:** Radical Functions and Equations (Sections 1-4)
- Chapter 11:** Data Analysis and Displays (Sections 1-5)

Minnesota Standards to be Mastered:

<http://education.state.mn.us/MDE/dse/stds/Math/>

Expected Homework: In general, assignments will be given daily.

Grade Includes: Tests (60%), Quizzes (20%), Homework (20%)