

2017 Honors Algebra II Summer Course Outline

Welcome to Algebra II!

Course Materials:

- Textbook: Algebra and Trigonometry: Functions and Applications, Pearson/Prentice Hall
 - ISBN-10: 0131657100
- Notebook + Writing Utensil

Course Description:

This course contains an in-depth study of a high school level Algebra II course, at an accelerated level meant to fulfill the credit requirement. Students will study advanced algebraic concepts and cover traditional material on inequalities, graphing, functions, rational exponents, factoring, systems of equations, rational expressions, solutions of equations, quadratic equations, exponential function and logarithms, non-linear equations, complex numbers, conics, matrices and determinants, and use models.

This course consists of a 6 week program, Monday-Friday, for four hours each day. Students will have 3-4 5-9 minute breaks each session.

Course Outline

13 chapters of the textbook will be covered during this 6 week course:

Chapter 1: Preliminary Information

Chapter 2: Functions and Relations

Chapter 3: Linear Functions

Chapter 4: Systems of Linear Equations and Inequalities

Chapter 5: Quadratic Functions and Complex Numbers

Chapter 6: Exponential and Logarithmic Functions

Chapter 7: Rational Algebraic Functions

Chapter 8: Irrational Algebraic Functions

Chapter 9: Quadratic Relations and Systems

Chapter 10: Higher-Degree Functions and Complex Numbers

Chapter 11: Sequences and Series

Chapter 12: Probability, Data Analysis, and Functions of a Random Variable

Chapter 13: Trigonometric and Circular Functions

Grading Policy

Student progress will be assessed each day.

Tests will be given at the end of each chapter/unit and will count for 60% of the grade.

Quizzes will be given on days there are no tests for 35% of the grade.

- All student work on tests and quizzes must be shown to receive credit. Partial credit will be given for correct work
- All assessments will be made up on the day a student returns from an absence

Homework will be checked daily for 5% of the grade

- Homework is graded on a complete / incomplete basis.
- Each homework should be labeled with the correct assignment and date
- Late homework will only be accepted if a student is returning from an absence.