

Algebra II Syllabus

Kimberly Summey – Instructor

Goal: To help each student reach his/her highest potential in Algebra II.

Text: *Algebra 2*, by Kanold, Burger, Dixon, Larson, and Leinwand, published by Houghton Mifflin Harcourt

Topics of Study:

- Polynomials/Polynomial Functions
- Powers, Roots, and Radicals
- Exponential and Logarithmic Functions
- Rational Equations and Functions
- Systems of Equations with 3 variables
- Complex Number System
- Data Analysis
- Trigonometry/ Unit Circle
- Systems of Inequalities
- Factoring
- Quadratic Functions
- Conic Sections, time permitting

University School's Algebra 2 course is aligned to the Tennessee State Standards for Mathematics. For more information on the state mathematics standards, visit https://www.tn.gov/content/dam/tn/education/standards/math/Standards_Support_Algebra_II_Mathematics.pdf

Materials: A notebook dedicated to Algebra II
A pencil and eraser (for assignments)
A pen (for grading and corrections only)
Paper (Notebook paper and graph paper)
Textbook
TI-84 calculator

****We will use TI-84 Plus calculators in class. The TI-84 Plus calculator is currently approved for use on the End of Course mathematics tests in Tennessee as well as the ACT Exam. Students benefit from consistently using a familiar calculator. Calculators will be used on some assessments. If you already have a graphing calculator other than a TI-84 that you prefer to use, it will be your responsibility to learn the appropriate key strokes.**

Grading: Tests, quizzes, and projects (as assigned), will be assigned a point value. Grades will be calculated by finding the percentages of points earned out of the total possible points.

Homework: Homework will be assigned regularly. Students are expected to attempt all assigned problems and ask questions about homework as it is discussed in class. Homework, along with the list of objectives for each section, should serve as a study guide for quizzes. Quizzes should serve as a study guide to tests. Tests should serve as a study guide for Quarter and Semester Exams.

Final Grades: Final grades will be calculated as follows:

Final Grade: 1st Semester 42.5 %
2nd Semester 42.5 %
Algebra II EOC (state of Tennessee) Exam 15 %

1st Semester Grade: 1st Quarter 40 %
2nd Quarter 40 %
1st Semester Exam 20 %

2nd Semester Grade: 3rd Quarter 40 %
4th Quarter 40 %
2nd Semester Exam 20 %

Extra Assistance: Mrs. Summey is available for additional help in the math lab on Monday, Tuesday, Thursday, and Friday each week from 12:00-12:30. If this does not align with your study hall time, you may flip your lunch and study hall on the days you need to attend the math lab.