



Algebra 2 Syllabus

<u>Course Information:</u>	<u>My Schedule</u>
Course Title: Algebra 2	Spring 2026
Instructor: William Cooper	1st Period: Discrete Mathematics
Email: wkcooper@greenvilleschools.us	2nd Period: Discrete Mathematics
Room: B215	3rd Period: Planning
Phone: (864) 355-6618 (voicemail)	4th Period: Algebra 2

Course Description:

Algebra 2 with Probability is a course designed for students seeking access to higher levels of mathematics after completing Geometry and Algebra 1. This course serves to deepen understanding and intuition about a wide variety of functions such as polynomial, rational, radical, exponential and piecewise.

Building on principles learned from Geometry and Algebra 1, the purpose of this course is to graphically investigate and compare functions, analyze rates of change, and determine solutions of “real-world” problems at a higher conceptual level than can be achieved algebraically.

Textbook: enVision Algebra 2 by SAVVAS

Required Materials:

- Pencil or Pen
- Notebook with paper
- Graphing Calculator (TI-84) (Provided)
- Chromebook

Assessment and Grading Policy:

Categories and corresponding weights are:

60% Tests/Projects/Online (Major Assessments)

40% Quizzes/CW/HW (Minor Assessments)

SC Grading Scale:

A 90 – 100

B 80 – 89

C 70 – 79

D 60 – 69

F 51 – 59



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Extra Credit, Makeup Work, Homework, Late Work, and other Classroom Policies as applicable:

- Homework: When assigned is graded.
- Tests will typically be given at the end of each unit.
- There will be approximately three/four tests per quarter.
- Extra Credit will not be given on an individual basis.
- Mauldin High's School Late Work Policy will be followed.

Extra Help

Students may come to B215 for extra help before school Tuesdays and Thursdays from 8:00 - 8:30am and after school Tuesdays - Fridays by appointment.

Behavior Expectations and Consequences:

- Be on time for class.
- Come to class prepared.
- Do not disrupt the learning environment
- Only water is permitted in class.
- No cell phones in class (See the Greenville County Schools Website for additional information)

Consequences:

If the rules are not followed the following steps will be taken:

1st offense- warning

2nd offense- parent phone call

3rd offense- detention

4th offense- referral to administrator



Discrete Mathematics Syllabus

Course Outline/Pacing Guide:

Major Units of Study Outlined:

Power Standards

Unit 1 - Linear Functions, Key Features of Functions, Piece-wise Defined Functions, Arithmetic Sequences, Solving Equations and Inequalities, Solving Absolute Value Inequalities

Unit 2 - Quadratics - Vertex Form, Standard Form, Quadratic Inequalities, Factored Form, Solving Quadratics, Operations on Complex Numbers

Unit 3 - Polynomials: Graphing Polynomials, Operations with Polynomials, Finding Zeros

Unit 4 - Radical Functions: Solving radical equations, Inverse

Unit 5 - Rational Functions: Graphing, Multiplying and Dividing Rational, Adding, Subtracting and Solving Rational Equations.

Unit 6 - Exponential Functions: Graphing Exponential Functions, Using Exponential Models, Solving Exponential Equations, Geometric Sequences

Unit 7 - Probability: Set notation, Diagrams, Tables, Independence and Conditional probabilities, Permutations and combinations

Unit 8 - Matrices and Trigonometric Functions