



## Algebra 2

### Course Description (Overview):

In this course, the focus will be on the study of the complex number system and functions. Real-world problems are discussed, represented, and solved using advanced algebraic techniques, incorporating technology. The properties and algebra of functions, including polynomial, exponential, logarithmic, piecewise, radical, rational, and trigonometric are analyzed and applied, as well as conics, matrices, systems of equations, sequences, and series

### Course Objectives:

1. Students will deepen their understanding of functions and how to manipulate them.
2. Students will learn to model real-world phenomena using a variety of functions.
3. Students will appreciate the power of exponential change and the importance of trigonometric functions.
4. Students will gain sophistication in choosing appropriate tools in problem solving, including graphing calculators.

### Textbook and Technology:

- *Teacher-created notes and worksheets available online*
- *Other related websites such as [DeltaMath](#), [DESMOS](#), and [Geogebra](#)*
- *Eureka Math Algebra II Workbooks and [Website](#) (a great additional resource for extra copies of all materials and homework help)*

### Resources and Supplies:

Required Supplies:

- Computer and Internet access
- Pencils, Pens, and Erasers
- 3-Ring Binder and Loose Leaf Paper (plain/lined + some graphing paper)
- Spiral Notebook is **optional**
- Graphing Calculator **optional** (TI-84 is pretty standard if you opt for one, TI-84CE is color)

### Grading Policy:

All courses must follow the official DCPS grading scale.

- **10% Engagement** – Attendance, Class Participation, Attending Office Hours, etc.
- **50% Practice and Application** - Projects, Classwork, Homework, Do Nows (warm-ups)
- **40% Assessments** - Tests, Quizzes, Exit Tickets, etc.

Final Grade Breakdown and Calculations	
1 <sup>st</sup> Term (August 29 – November 04) – 25%	3 <sup>rd</sup> Term (January 26 – April 07) – 25%
2 <sup>nd</sup> Term (November 07 – January 24) – 25%	4 <sup>th</sup> Term (April 11 – June 22) – 25%

- **WS (50%)** – When a student does not complete an assignment or assessment, it will be entered into the gradebook as “WS” meaning “Work Not Submitted.” The grade is an automatic 50% until the actual assignment is completed and submitted.
- **F (63%)** – Any assignment or assessment that is attempted, but scores a failing grade will be entered as an F and automatically calculated to a 63%.
- Both the WS and the F grading practices are part of our equity in grading initiative at Wilson as well as an official DCPS policy.

## Aspen

- Official grades are posted on the Aspen student and parent portal
- Any grades in Canvas might give you an idea of your progress, but these are not the official scores
- Note that grades in Aspen are manually transferred from Canvas, and it might take some time for teachers to update scores into Aspen. Thank you in advance for your patience

## Scope and Sequence:

<i>Term</i>	<i>Module(s)</i>
1	<b>Module 1</b> (Polynomial, Rational, and Radical Relationships & <b>Module 2</b> (Trigonometric Functions)
2	<b>Module 3</b> (Exponential and Logarithmic Functions & <b>Module 4</b> (Inferences and Conclusions from Data)

## Office Hours:

- Students can make an appointment to meet with me any time outside of class
- Students that need encouragement and improvement will be contacted for a meeting
- This is my way to check in to make sure that you are understanding the material and not falling behind!

## Class Expectations:

- **Be Engaged** (This means your video is on and you are actively participating, listening, asking questions, etc.)
- **Be Prepared** (This means that you are logged in at the start of class with a pencil and paper ready at hand)
- **Be Respectful** Be respectful to yourself, your peers, and me (This means that you listen to each other, speak when appropriate, and use appropriate voice and language)
- **Be Open-Minded** (This means that you are willing to take risks with your learning, challenge yourself, and bring a positive attitude to class)
- **Be Honest** (This means that you do your work individually, with NO cheating. Do the work and show yourself what you can accomplish. It's much more fulfilling)

## Attendance:

If you are absent for any reason, you need to get your notes and work caught up immediately upon return. All assignments and resources will be available online via Canvas and DeltaMath. Just because you were gone does not make you exempt. If you are absent during a review day before a test/quiz, you are still responsible for taking that assessment on time. See me if you miss a test/quiz for ways to make it up!

**Note:** Things may change significantly during this course if unforeseen issues arise or virtual instruction resumes. For this reason, I reserve the right to unilaterally change the expectations outlined in this syllabus. If a change is needed, I will notify you prior to the adjustments so concerns can be expressed and addressed in a productive and satisfactory manner. Thank you for understanding the need for this addendum.

Student Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Parent Name: \_\_\_\_\_ Signature: \_\_\_\_\_