

**Honors Algebra II**  
**Course Syllabus**  
**Christal Eddington**  
**Central High School**  
**2017 - 2018**

**Course Description:**

Algebra II is required for high school graduation. Algebra II is the third level of the four math courses required for a diploma. **The TCAP End of Course EXAM is required in this course.**

**Instructional Philosophy**

We at Central High School believe every student should be given the opportunity to do his/her best. In order to provide the best possible environment for individual learning, instructional practices in this course will incorporate activities that allow for differences in learning styles. Ultimately, the philosophy of this teacher must reflect the mission statement of Central High School: "to develop lifelong learners through challenging expectations and to address the needs of all students, while promoting civic and social responsibility."

**Major Course Goals:**

The major goal of Honors Algebra II is to address the academic standards detailed in the Tennessee Mathematics Framework. The framework includes four Processes Standards:

- Structure and Operations
- Equations and Inequalities
- Functions
- Interpreting Data

Topics which will be covered in Honors Algebra II include the following:

- Functions
- Quadratic Functions, Equations, Relations
- Polynomial Functions, Expressions, and Equations
- Rational Functions, Equations, and Relations
- Radical Functions, Equations, and Relations
- Exponential and Logarithmic Functions and Equations
- Trigonometric Functions
- Probability
- Statistics
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**Projects and Instructional Activities      Required for Honors Courses**

1. Group Project:

This project is entitled "Rocket Launch". The students must build a launch with limited materials and use it to predict how far they can launch a ping pong ball. The data that the students collect will be used and compared to see how efficient their launch is compared to the rest of the class. Each group will present their data to the class using technology of their choosing. They will also be required to turn in a written narrative of their findings.

2. Individual Research:

Students will research a mathematician of their choosing. Students will be required to research, write a summary, and do an oral presentation to their class on their chosen mathematician. The students' oral presentation to the class will use the technology of their choosing.

Students will also individually research a career of their interest. They will determine how their chosen career is related to the field of mathematics. Students will be required to do research, write a summary of how math is used in their career, and do an oral presentation of their findings. The students' oral presentations will use the technology of their choosing.

3. Regular Classroom Assignments:

Assignments will be varied and will explore problems that are challenging and involve higher-order thinking skills.

**Course Assessment**

Grades in this class will represent achievement on daily work, worksheets, quizzes, tests, projects and research. **A notebook is not required, but I strongly recommend that each student keep a notebook. The notebook should contain class notes and daily assignments for each module. The students will be allowed to use their notebooks on all tests except for the TCAP End of Course EXAM!!!** Additionally, Honors Algebra II classes will have projects as described in the above section which will extend the regular studies.

The formula that I use for calculating your grades is as follows:

$$\frac{\textit{Total Points Earned}}{\textit{Total Points Possible}} \times 100 = \textit{Your Grade}$$

**Supply List**

Paper, Pencil, Folder

Bring paper, pencil, workbook, and assignments to class **every day!**

**Class Rules**

Be courteous and respectful to each other.

**Follow Directions.**

**Contact Information**

Please feel free to contact me with any questions or concerns you may have.

School Phone Number: 423- 263-5541

Planning Time: 3<sup>rd</sup> Period (10:10 am – 11:00 am)

E-mail: [ceddington@mcmminnschools.com](mailto:ceddington@mcmminnschools.com)

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**Central High School**  
**2016 - 2017**

By signing below you are acknowledging that you have read and understand the Class Policy, Class Rules, and Class Syllabus.

**Class Period** \_\_\_\_\_

\_\_\_\_\_  
Christal Eddington

\_\_\_\_\_  
**Print Student Name**

\_\_\_\_\_  
**Student Signature**

\_\_\_\_\_  
**Print Parent/Guardian Name**

\_\_\_\_\_  
**Parent/Guardian Signature**

\_\_\_\_\_  
**Parent/Guardian Phone Number**

\_\_\_\_\_  
**Parent/Guardian email**

If there is any information that you feel that I need to know about your student, please use the area below or email me at [ceddington@mcmminnschools.com](mailto:ceddington@mcmminnschools.com).

Thank You,