



## BERGEN COUNTY TECHNICAL SCHOOLS

### Applied Technology High School

#### Algebra 2 Syllabus

Mr. Valentine

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#### Course description:

Students enrolled in Algebra II have successfully completed the requirements for Algebra I and Geometry. The Algebra II course is to provide the students with the skills necessary to succeed and to progress in the advanced study of mathematics. Algebra II is organized around families of functions, including linear, quadratic, exponential, radical, rational, and trigonometric functions. The use of a graphing calculator and real-world applications will be integrated into this course. Students will be involved in communicating information mathematically, solving problems from a real world context, and justifying the solutions. Algebra II includes a review of topics from Algebra I along with the following new topics:

- Quadratic Functions and Factoring
- Polynomials and Polynomial Functions
- Rational Exponents and Radical Functions
- Exponential and Functions
- Rational Functions
- Trigonometric Functions
- Real-World Applications

#### Grading Policy:

This course will follow a Total Point grading system where:

- Classwork assignments are worth 1-10 points each
- HW assignments are worth 1-10 points each
- Quizzes worth 10-70 points each
- Tests worth 70-100 points each

#### Absent / Make Up Policy:

If a student misses an assignment due to an absence it will be assigned the following class. Make up quizzes are permitted provided corrections with work is completed **after** school. There are no retakes on tests.

#### Technology:

- Cell phone use is **not permitted**:
  - 1st offense - warning
  - 2nd offense - teacher asks for student to put on desk
  - 3rd offense - phone will be turned into the office; requires parental pickup
- Charging electronic devices **not permitted** in the classroom