

## 2021-2022 Course Syllabus for Algebra II

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**Objectives:** This is a general overview of what the teacher will teach and what the student is expected to master. Objectives for each unit are aligned with the ACT and the College and Career Readiness Standards.

ACT rigor is emphasized in this course. Students are expected to complete ACT questions related to the current unit from two ACT prep books. Quizzes will be given on this material.

Introductions: Handbook review, classroom procedures, emergency procedures, school discipline policy

### TERM 1

### Notes

- |        |                                       |
|--------|---------------------------------------|
| Unit 1 | Simplifying Expressions               |
| Unit 2 | Equations                             |
| Unit 3 | Inequalities                          |
| Unit 4 | Absolute Value Equations/Inequalities |
| Unit 5 | Coordinate Geometry                   |

### TERM 2

- |         |   |
|---------|---|
| Unit 7  | Linear Functions  |
| Unit 8  | Parallel and Perpendicular Linear Functions and Systems |
| Unit 9  | Matrices  |
| Unit 10 | Relations and Functions                                 |
| Unit 11 | Number Theory   |

### Term 3

- Unit 1 Quadratic Functions
- Unit 2 Quadratic Equations
- Unit 3 Exponential and Logarithmic Functions
- Unit 4 Polynomial Functions

### Term 4

- Unit 1 Conic Sections
- Unit 2 Unit Circle and Trig Identities
- Unit 3 Probability
- Unit 4 Statistics