

Central High School  
**Advanced Algebra**  
Carol Davidson

**Course Syllabus**

**Course Description:** This course begins with a brief review of Algebra I topics. Additional topics include: factoring, solving equations using factoring, applications of algebra skills, inequalities, linear equations and functions and graphing, systems of equations, exponents, rational expressions, irrational, imaginary and complex numbers and quadratic equations and functions and the quadratic formula.

**Required class materials:** 3-ring binder, loose-leaf paper, pencils, dividers, book cover, scientific calculator.

**Text:** Algebra and Trigonometry Structure and Method (McDougal Littell)

**Course Outline:**

- 1) Basic Concepts of Algebra
- 2) Inequalities
- 3) Linear equations and functions
- 4) Products and factors of polynomials
- 5) Rational expressions and equations
- 6) Irrational and complex numbers
- 7) Quadratic equations and the quadratic formula

**Grading:** Daily homework, daily quizzes, chapter tests, binders/folders at the end of each chapter, attendance.

**Classroom Routine:** Check the agenda on the board, have homework questions ready when the bell rings, answer homework questions and collect homework, present new material, assignment given, daily quiz, guided study.

**Make-up work:** It is the student's responsibility to stop by my room and pick up a make-up work form when absent. The student must be prepared for the next class session, which includes getting notes and making up any missed quizzes/tests.

**Contact Information:** I arrive at school by 7:30 am and am available after school. My e-mail address is: [cdavidson@cusd4.org](mailto:cdavidson@cusd4.org) and can be reached by phone at 815-694-2321.