

# Algebra II

**Instructor:** Jordan Erwin (he/him)  
Free State High School  
Room 518

## Course Objectives:

- a. Engage in mathematical thinking
- b. Strengthen understanding of concepts prescribed by state math standards
- c. Collaborate with other students in a problem-solving setting
- d. Explore algebraic ideas of relationships, modeling, and pattern recognition.

**Communication:** You can always talk to me in person but if you are unable to reach me, please use the information below to get a hold of me.

Email: [jordan.erwin@usd497.org](mailto:jordan.erwin@usd497.org)

- I prefer students use this only when they need to send me an attachment or are unable to contact me through Schoology

Schoology Messenger

- I prefer students use this as the main form of communication

**Course Description:** The topics covered in this course will include mathematical operations and graphing and solving systems of equations, linear and quadratic equations and inequalities, polynomial equations, rational equations, and graph and write equations of conics. This class is recommended for students who were successful in Algebra I and Geometry.

## Supplies:

- Pencil
- Dry Erase Markers
- 1.5''+ binder
- Highlighter
- TI30X IIS Calculator (optional but recommended)
- Notebook
- Computer with charger

**The Foundations:** These comprise the cultural values of the classroom. They are our basic principles that guide our work and interactions. They are what we believe about ourselves and life and what we aspire to as a whole community of learners. Please read them and seek to live them out.

1. Teamwork: Working together with respect and kindness
2. Effort: Putting the time and work into accomplishing the goal
3. Perseverance: Getting back up and pushing through and learning from difficulties and failures
4. Character: Moral qualities distinctive to you that help us all function together, e.g., respect and kindness
5. Goal-oriented: Having the mindset to move forward in what we need and want to do

## Basic Policies:

- Attendance is required. All absences must be excused through the front office.
- No food in the classroom, including after lunch.
- Water bottles and other drinks are allowed.
- Electronics, such as cellphones and computers, should be used for educational purposes during class time and put away otherwise. Repeated failure to comply with this policy will result in parent contact and school discipline.
- Listening to music with headphones is allowed while working independently but not while you are supposed to be working collaboratively
- Help keep the classroom clean by picking up after yourself and treating the classroom materials and furniture with care



**Course Requirements:**

1. Tests: 1 for each unit (100 points)
2. Quizzes: Select units (50 points)
3. Schoology Discussion Boards: 1 for each unit (25 points)
4. Flipgrid Problems: 1 for each unit (25 points)
5. Exams: 1 for Fall and 1 for Spring (100 points each)
6. Check Your Understanding Problems: 1 set for each lesson (no grade)
7. Additional Practice Problems: Select lessons (no grade)

**Grading:**

- All tests, quizzes, and exams will be graded on a standard right-wrong basis with points for partial credit
- Schoology Discussion Boards and Flipgrid Problems will be graded based on completion
- Students will receive a 50% for Schoology Discussion Boards and Flipgrid Problems that are not turned in. Tests, quizzes, and exams will receive a 0% until turned in.

**Course Requirement Procedures:**

1. Tests/Quizzes/Exams: Must be completed in the classroom during the time that is given, unless prior arrangements are made with another approved school staff member. These will be handed directly to Mr. Erwin, unless specified otherwise.
2. Schoology Discussion Boards and Flipgrid Problems: Submitted using their respective online platforms. Students will be taught how to use these platforms.
3. Check Your Understanding Problems: Not turned in or graded. Student may request feedback. Mr. Erwin may request to give feedback. If so, submitted to Class Inbox.
4. Additional Practice Problems: Not turned in or graded. Student may request feedback. Mr. Erwin may request to give feedback. If so, submitted to Class Inbox.
5. Late Work: Due dates and deadlines will be clearly posted. If work is submitted late, student must notify Mr. Erwin when it is complete to receive credit. All work is due by the end of the unit from which it was assigned.
6. Revisions/Retakes: All assignment revisions or test retakes must be approved by Mr. Erwin. They will be completed at a time and location and in a manner set by Mr. Erwin.

**Grading Scale**

- A (90-100%)
- B (80-89%)
- C (70-79%)
- D (60-69%)
- F (0-59%)

<b>Unit Calendar*</b>	<b>*subject to change</b>
Unit 1 – Mathematical Thinking	Unit 6 – Exponential Functions and Logarithms
Unit 2 – Sequences and Linear Functions	Unit 7 – Quadratics
Unit 3 – Linear Systems	Unit 8 – Higher Degree Functions
Unit 4 – Function Families and Transformations	Unit 9 – Rational Functions
Unit 5 – Working with Functions	Unit 10 – Matrices

\*\*All information described in syllabus is subject to change for the good of the course and the students. Any further questions can be directed to Mr. Erwin.\*\*