



## **Course Syllabus**

### **Algebra 2 with Statistics, Honors: Fall 2025**

**Instructor: Mrs. Britney Brettel**

#### **Course Description:**

Provides a more in-depth treatment of algebraic concepts presented in Algebra 1 while introducing several higher-level topics. Quadratic equations, functions, graphing, systems of equations and inequalities, and trigonometry are topics expanded in this course. Complex numbers, exponential and logarithmic functions, and matrices are introduced. Statistics focuses on inferential statistics, which allows students to draw conclusions about populations and cause-and-effect based on random samples and controlled experiments.

#### **Course Objectives:**

To enable students to comprehend the objectives mandated by the state for this course and to build a strong foundation for subsequent math courses. Also, to decrease the apprehension of learning mathematics and to make learning more relevant and enjoyable.

#### **Classroom Rules and Expectations:**

1. Jet Core Values: **Live to Be Respectful, Be Responsible, and Be Resourceful.**
2. Students are expected to arrive on time, be prepared for class, and be ready to learn.
3. All school rules in the district student handbook will be enforced.
4. If you need additional help, please ask. I will gladly schedule a time to meet with you. I will be available during Refuel on most Mondays, Tuesdays, Wednesdays, and the first half of Refuel on Thursdays.

**Accommodations:** Requests for accommodations for this course or any school event are welcomed from students and parents.

**Concerning Electronic Devices:** Please refer to the Madison City Schools Code of Student Conduct and Madison City Schools policy manual concerning wireless communication devices.

**Concerning Laptop Utilization:** Student laptops should not be hard-wired to the network or have print capabilities. 2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers. 3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops. 4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

**Restroom Policy:** Students may go to the restroom at the beginning of class during Bellwork or at the end of class during daily work. They may not go to the restroom during active instruction time, unless it is an emergency.

#### **Grading Policy:**

Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades. The grading scale is as follows: A (90-100%), B (80-89), C (70-79), D (65-69), and F (below 65). Grades will be a reflection of mastery of the standards. Make sure all

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absences are excused as class work can be made up and graded for excused absences only. The final exam counts for 20% of the final grade. Any student caught cheating will receive a zero.

## Make-Up Work Policy:

1. Classwork and homework will be posted on the board and on Schoology. It is the student's responsibility to get the assignments.
2. **Late** work will only receive **half** credit, unless it was due to an excused absence.
3. In order to receive full credit on homework assignments, you must **show your work**.
4. If homework is being copied, both parties will be held responsible and will receive a **zero**.
5. Missing only the review day prior to the test does **not** exempt a student from taking the test on the previously announced test date.
6. Students with an excused absence will need to schedule a make-up test date with Mrs. Brettel ASAP upon returning to school.

## Course Materials:

Three ring binder, paper, graph paper, dividers, pencils, graphing calculator (TI84 graphing calculator preferred)

**Texts/Required Readings:** Big Ideas Algebra 2 with Statistics, ISBN 13: 9781-1-64432-608-4

<b>Algebra 2 with Statistics, Honors - 18 WEEK PLAN</b>	
<b>Week 1</b>	Transformations & Linear Functions
<b>Week 2</b>	Quadratic Equations and Complex Numbers
<b>Week 3</b>	Quadratic Equations and Complex Numbers Continued
<b>Week 4</b>	Graphing Quadratic Functions
<b>Week 5</b>	Polynomial Functions
<b>Week 6</b>	Polynomial Functions Continued
<b>Week 7</b>	Radical Functions
<b>Week 8</b>	Midterm Review and Midterm Test
<b>Week 9</b>	Exponential and Logarithmic Functions
<b>Week 10</b>	Logarithmic Functions Continued
<b>Week 11</b>	Rational Functions
<b>Week 12</b>	Trigonometric Ratios and Functions
<b>Week 13</b>	Trigonometric Functions Continued
<b>Week 14</b>	Data Analysis and Statistics
<b>Week 15</b>	Data Analysis and Statistics Continued
<b>Week 16</b>	Matrices
<b>Week 17</b>	Review
<b>Week 18</b>	Final Exam

**\* This syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions or substitutions.**

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**Dear Parent/Guardian,**

**I am excited about this semester and having your child in my class. Please feel free to contact me should you have any concerns about the progress of your child or any aspect of the instruction. I encourage you to check your child's grades on PowerSchool frequently and stay up to date with their progress, so that you are always aware of their current grade. Also, please note that all district policies will be enforced in my classroom. With your child, please read the attached syllabus, then sign and date this signature page and have your child return this form. Please provide a current email address and phone number at which I can contact you should the need arise. Please feel free to contact me at school with any questions or concerns. I am looking forward to a great semester!**

**Thank you,**

**Britney Brettel**

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**My child and I have read and discussed the classroom syllabus.**

Student Name (Print) \_\_\_\_\_ Date \_\_\_\_\_

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Parent/Guardian Name (Print) \_\_\_\_\_ Date \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_

Email Address(es) \_\_\_\_\_

Phone number(s) \_\_\_\_\_  
Cell Home Work