



Course Syllabus

Algebra 2 with Statistics: Spring 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, 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 Nav Values: **Be Respectful, Responsible, Resourceful, and Reliable.**
2. Students are expected to arrive on time, be prepared for class, and be ready to learn.
3. All policies in the Madison City Schools student handbook will be enforced. This includes Dress Code, Tardy Policy, and Electronic Device Policy.
4. If a student has additional questions or needs extra help, then it is their responsibility to see me during Refuel. I will be available during Refuel on 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.

Classroom Management Plan:

1. Verbal reprimand
2. Conference with student with parent contact
3. Withdrawal of privilege(s) with parent contact
4. Other consequences determined to be reasonable and appropriate by the school administration

District Policy Concerning Electronic Devices: Cell phones and earbuds/headphones will not be allowed to be used during classroom instruction time. Phones and earbuds/headphones will be put away in a location designated by the teacher and placed in silent mode. In secondary schools, students will have access to their phones and earbuds/headphones outside of classroom instruction time such as between classes and lunch. Failure to follow these procedures will result in consequences in the classroom management plan.

James Clemens High School

11306 County Line Road
Madison, AL 35756



Phone: 256-216-5313

Extension: 95132

Email: bpbrettel@madisoncity.k12.al.us

Classroom Procedures Concerning Electronic Devices: Upon arriving to class, students must place their cell phones into the designated cell phone pocket holder behind their assigned number. Once students are finished with all work for the class, then they may get their phones from the pockets. All phones will be returned at the end of class.

All earbuds, headphones, and laptops should be placed into their backpacks, unless otherwise directed by the teacher.

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. The final exam counts for 20% of the final grade. Any student caught cheating will receive a zero.

Make-Up Work Policy:

1. Notes, classwork, and homework will be posted on the board and on Schoology. It is the student's responsibility to get the missed notes and 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. Study guides with answer keys will be provided on Schoology the day before the test.
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, scientific calculator

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

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Algebra 2 with Statistics - 18 WEEK PLAN	
Week 1	Transformations & Linear Functions
Week 2	Factoring
Week 3	Quadratic Functions and Complex Numbers
Week 4	Quadratic Functions and Complex Numbers Continued
Week 5	Graphing Quadratic Functions
Week 6	Polynomial Functions
Week 7	Polynomial Functions Continued
Week 8	Rational Functions
Week 9	Review and Midterm Test
Week 10	Rational Exponents and Radical Functions
Week 11	Exponential and Logarithmic Functions
Week 12	Logarithmic Functions Continued
Week 13	Trigonometric Ratios and Functions
Week 14	Trigonometric Ratios and Functions Continued
Week 15	Data Analysis and Statistics
Week 16	Data Analysis and Statistics Continued
Week 17	Matrices
Week 18	Review and 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 son/daughter 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 be reminded that cell phones, earbuds, and laptops are not allowed for personal use during instruction time and must be placed in their designated locations. With your son/daughter, read the attached syllabus, then sign and date this signature page and have your son/daughter 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

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