



## *ALGEBRA 2 WITH STATISTICS*

Teacher Name: Emily Albert

Teacher E-mail: esalbert@madisoncity.k12.al.us

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### ***Course Description:***

In Algebra II with Statistics, students incorporate knowledge and skills from several mathematics content areas, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. In the content area of Algebra and Functions, students explore an expanded range of functions, including polynomial, trigonometric (specifically sine and cosine), logarithmic, reciprocal, radical, and general piecewise functions. Students also solve equations associated with these classes of functions. In the content area of Data Analysis, Statistics, and Probability, students learn how to make inferences about a population from a random sample drawn from the population and how to analyze cause-and-effect by conducting randomized experiments. Students are introduced to the study of matrices in the Number and Quantity content area.

A focus on mathematical modeling and real-world statistical problem-solving is included across the course; see Appendix E for more information on the modeling cycles for mathematics and statistics. It is essential for students to use technology and other mathematical tools such as graphing calculators, online graphing software, and spreadsheets to explore functions, equations, and analyze data.

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### ***Classroom Management Plan:***

#### **Classroom Management Plan**

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

#### **Cell Phones**

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 a disciplinary referral to the office.

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### ***Grading Policy:***

Major assessments will count 70 percent of your grade. Homework and classwork will account for 30 percent of your grade. Grades will be updated weekly in PowerSchools. Each grading period will consist of nine weeks.

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### ***Make-up Work Policy:***

**Make-up tests will only be given to a student who has an excused absence. The student must make arrangements with the teacher to take a make-up test. Tests may be taken during Patriot Path with prior arrangement from each teacher.** A student only has two chances (the next two Patriot Paths after the absence) to make up a test. All make-up tests will be administered in the designated classroom on the Patriot Path session roster.



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**Homework/Classwork:** Students who are absent for **excused reasons** will be permitted to make up missed work. **It is the student's responsibility to get their work assignments the day upon return to school and complete the assignments according to a time frame determined by the teacher within two weeks of the date of the last absence.** Grades of zero will be assigned for assignments missed because of unexcused absences.

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***Text and Other  
Required Reading:***

Algebra 2 with Statistics by Big Ideas Learning

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***Materials and  
Supplies Needed:***

- Scientific Calculator (TI-XS recommended)
  - Loose Leaf College Ruled Paper
  - Notebook/binder
  - Pencils or erasable pens
  - Graph Paper
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***Laptops***

**Concerning laptop utilization:** 1. 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.

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***Turnitin Notice  
(English Courses)***

The majority of writing assignments in this course will be submitted to Turnitin via the Schoology learning platform. Turnitin generates a report on the originality of student writing by comparing it with a database of periodicals, books, online content, student papers, and other published work. This program will help students discern when they are using sources fairly, citing properly, and paraphrasing effectively - skills essential to all academic work.

Students will have the opportunity to review their Turnitin originality report and will have the opportunity to make revisions before submitting their work for grading. Once their work is submitted, teachers have the opportunity to view the student/s originality report and grade accordingly.

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***Accommodations***

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



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18 – WEEK PLAN*	
<b>Week 1</b>	Chapter 1 - Linear Functions
<b>Weeks 2-4</b>	Chapter 3 - Quadratic Equations and Complex Numbers
<b>Week 5</b>	Chapter 2 - Quadratic Functions
<b>Weeks 6-7</b>	Chapter 4 - Polynomial Functions
<b>Weeks 8-9</b>	Chapter 5 - Rational Exponents and Radical Functions
<b>Weeks 10-11</b>	Chapter 6 - Exponential and Logarithmic Functions
<b>Weeks 12-13</b>	Chapter 7 - Rational Functions
<b>Week 14</b>	Chapter 8 - Periodic Functions and Trigonometry
<b>Weeks 15-16</b>	Chapter 10 - Matrices
<b>Weeks 17-18</b>	Chapter 9 - Data Analysis and Statistics

**\*This is a tentative plan and may change at the discretion of the teacher.**

Please sign below to acknowledge that you have received, read, and understood the syllabus.

**Student name:** \_\_\_\_\_

Student signature: \_\_\_\_\_

**Parent/guardian name:** \_\_\_\_\_

Parent/guardian signature: \_\_\_\_\_

**Parent/guardian, please provide two ways for me to contact you (email address, phone numbers):**

Parent/guardian Email:

\_\_\_\_\_

Parent/Guardian Phone number:

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