



ALGEBRA 2 W/ STATS

Teacher Name: Ms. Donna McCarley

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

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

Course Objectives: Students will have a mastery of the content standards for this course so they are able to succeed in higher-level mathematics. The use of appropriate technology is encouraged for numerical and graphical investigations that enhance analytical comprehension.

Classroom Expectations:

You are expected to conduct yourself in a respectful and productive manner. In addition to all the rules and expectations listed in the student handbook, I expect you to have a positive attitude, treat others with respect, practice self-discipline, and demonstrate responsibility. If these conditions are not met, you can expect one-on-one meetings with me, parent/instructor conferencing, and administrative action, if necessary.

Concerning the use of cell phones and other electronic devices:

Devices should be on silent and kept in your purse, backpack, or pocket during class unless otherwise instructed. You may not place it on your desk. Parents, guardians, and other family members should call the front office in case of emergency.

If you violate this rule, you can expect the following consequences:

- *First offense* – The phone or device will be placed in a phone chart at the front of the room. You may pick it up at the end of class.
- *Second offense* – The phone or device will again be placed in a phone chart at the front of the room until the end of class and a parent/guardian will be notified.
- *Third offense* – This is defiance and I will notify an administrator.

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.

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.

Text and Other Required Reading:

Algebra 2 with Statistics by Big Ideas Learning

Materials and Supplies Needed:

- EARBUDS or headphones for chromebooks
- Scientific Calculator (TI-XS recommended)
- Loose Leaf College Ruled Paper
- Notebook/binder
- Pencils (No Pens are accepted)
- Graph Paper

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.

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.

Accommodations

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



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Example: 18 – WEEK PLAN*

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

***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:
