



MATHEMATICAL MODELING

Teacher Name: Ms. Donna McCarley

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

Course Description:

Mathematical Modeling is a course designed to expand on students' previous knowledge by applying it to the context of mathematical modeling to represent and analyze data and make predictions regarding real-world phenomena. Mathematical Modeling is designed to engage students in doing, thinking about, and discussing mathematics, statistics and modeling in everyday life. Prerequisites for this course are Geometry with Data Analysis, Algebra I with Probability, and Algebra 2 with Statistics.

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.

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.

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.



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Text and Other Required Reading:

ANGEL, A. R., Runde, D. C., & Abbott, C. D. (2021). *Survey of mathematics with applications: High school edition* (11th ed.). PRENTICE HALL.

Materials and Supplies Needed:

2 composition notebooks	loose leaf paper
Chromebook CHARGED	Earbuds for chromebook (for videos as needed)
Pencils	Scientific Calculator

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.

Example: 18 – WEEK PLAN*	
Weeks 1-7	Financial Planning
Weeks 8-9	Algebra/Geometry Review
Weeks 10-13	3D Design
Weeks 14-17	Probability, Permutations, Statistics
Weeks 18	Exam Review
Week 19	Exam

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



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

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:
