



MATHEMATICAL MODELING

Teacher Name: Derrick Whittington

E-mail: dwhittington@madisoncity.k12.al.us

Course Description:

Mathematical Modeling is a course designed to expand on student's 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.

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.
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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.

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:

A Survey of Mathematics with Applications by Pearson

Materials and Supplies Needed:

- Loose Leaf Notebook
- Scientific Calculator
- Writing tool
- Binder with divider tabs

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.

Accommodations

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

Example: 18 – WEEK PLAN*	
Weeks 1-4	Unit 1 Algebra Review
Weeks 5-7	Unit 2 Financial Planning
Weeks 8-10	Unit 3 Probability & Permutations
Weeks 11-15	Unit 4 3D Design
Weeks 16-18	Unit 5 Final Project
Week 19	Review for Final

***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.

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:
