

Mr. Dune's Math 4 Honors Class Syllabus

Welcome to the start of a new school year! Math 4 is designed to be a final math class here at Tuscola. Math 4 Honors is a new course and will generally have higher academic standards than a typical Math 4 class. Specifically we will move faster and further into the core content and spend more time on the more advanced statistics concepts. I have two goals for you all by the end of the semester:

- 1) You all are prepared to walk into your first college math class.
- 2) You all have some practical math skills that you can actually use in life.

Classroom Rules & Expectations

- 1) Respect - We will all treat each other as we would like to be treated.
- 2) Respect - We will have the freedom to speak our mind as professionals and young adults with the patience to listen to each other.
- 3) R-E-S-P-E-C-T (You can sing this one if you like)

Cellphones

According to state law cellphones, tablets, laptops, gaming devices, and headphones/earbuds must be turned off and put away during instructional time. Teachers may allow these devices for instructional uses. As Juniors and Seniors you will be expected to keep track of your own devices and make sure they are turned off and put away at the beginning of each class. There will be occasions that we will use electronic devices in class. This will mostly be a chromebook/laptop and rarely a cellphone.

Grades

Tests	50%
Quizzes	30%
Homework	20%

Quiz Corrections

Students may retake any quiz any number of times and keep the highest score. However, each retake will be with different questions and must be taken outside of class time.

Tests Corrections

Students will be able to recover up to half of their missed points by completing corrections. Test corrections must be completed on a separate sheet of paper. Each correction must have 3 parts for credit: a short error analysis, scratch work, and the correct answer.

Late Assignments

Assignments that are not turned in the day they are due will be entered in as 0% and may be turned in late.

Late Assignments will have a 10% penalty for every day it is late up to a maximum of a 40% penalty. Late assignments may be turned in up to the end of the current grading period. After that time they will remain 0%.

Tutoring

Tutoring will be offered from 3:00 to 4:00, Monday through Friday.

Supplies

3-Ring Binder (preferably with pockets)

Loose, hole-punched paper

Pen or Pencil

The ability to look at numbers and letters and say, "I can handle this."

Course Outline

- Week 1 Complex Numbers & Matrices
- Week 2 Angles and Degrees & Trigonometry Ratio Review
- Week 3 Law of Sines & Cosines
- Week 4 LoS/LoC Review & Vectors
- Week 5 Graphing Sine/Cosine Functions & Logarithmic Functions
- Week 6 Exponent Rules Review & Solving Exponential and Logarithmic Equations
- Week 7 Solving Exponential and Logarithmic Word Problems & Piecewise Functions
- Week 8 Linear Regression & Non-linear Regression
- Week 9 Introduction to Statistics and Statistics Vocabulary
- Week 10 Measures of Variation & Data Displays
- Week 11 Normal Distribution
- Week 12 Basic Counting Concepts & Basic Probability
- Week 13 Multiplying Probability
- Week 14 Z-score Introduction & Normal Distribution
- Week 15 Empirical Rule and Normaldist()
- Week 16 Introduction to Hypothesis Testing & Course Review
- Week 17 Course Review
- Week 18 Course Review & Final Exams

This will be our *rough* outline. We may spend more time on some topics depending on what we need as a class. I will always be available if you need help.

