

Honors Math II Course Syllabus

Randleman High School

Course Title: Honors NC MATH II

Teacher: Craig Smith

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Course Pre-requisites: successful completion of NC Math I

Course Description: Honors Math II continues students' study of algebraic concepts, advanced functions, geometric concepts, trigonometry, and probability. Students will be encouraged to take responsibility for their own learning as they participate in self-directed learning throughout the semester.

Course Units: Note: Order of units is subject to change.

- Unit 1 – Equations Review
- Unit 2 – Geometric Transformations
- Unit 3 - Triangles
- Unit 4 - Trigonometry
- Unit 5 – Probability
- Unit 6 – Partitioning Segments
- Unit 7 - Polynomials
- Unit 8 – Quadratics
- Unit 9 – Absolute Value and Rational Functions
- Unit 10 – Exponential and Logarithmic Functions
- Unit 11 – Systems of Equations
- Unit 12 – Piecewise and Step Functions

Student Learning Objectives: Goals for this class are from the Common Core Math Standards.

1. Number and Operations: The learner will be able to use the properties of the real number system, be able to reason quantitatively, and use units to solve problems.
2. Algebra: The learner will be able to interpret the structure of expressions, perform arithmetic with polynomials, create equations that describe numbers or relationships, understand solving equations as a process of reasoning and be able to explain the reasoning.
3. Functions: The learner will be able to understand and interpret functions that arise in various applications and build functions that model relationships between two quantities.
4. Geometry: The learner will be able to use congruence and similarity to prove geometric theorems, apply trigonometric ratios in solving problems involving right triangles, apply geometric concepts in modeling situations, and explain relationships between two-dimensional and three-dimensional objects.
5. Statistics and Probability: The learner will be able to make inferences and justify conclusions from sample surveys, experiments, and observational studies, and use the rules of probability to compute probabilities of compound events.

Required Materials:

1. Three Ring Binder – Class notes, classwork, and homework will be stored here.
2. Pencils and graph paper
4. Glue or glue sticks

Grading Policy:

Major Assignments – 60%

Minor Assignments – 40%

Course and Instructor Policies (follow Randolph County Board Policies)

A. Make up work: If a student is absent from class, they are responsible for getting their work from the ABSENT FOLDER. If they do not get their work and make it up, it will result in a zero in my grade book. The student will have 3 days since the absence to make up work.

B. Testing Policy: Students may re-take any test or quiz that they choose. However, the highest grade that can be earned on a re-test is an 80 and the highest grade will be used.

C. Extra credit: Students can earn extra credit periodically throughout the semester. **D. Late work:** 10 points will be deducted for each day the assignment is late. NO EXCEPTIONS! **E. Attendance:** May not miss more than 5 days before failing the course.

F. Remediation/tutoring opportunities: Most mornings and afternoons upon request. **G. Hall Pass/Bathroom policy:** Students will be given 5 passes per semester. Unused bathroom passes will serve as extra credit at the end of the semester.

H. Food and drinks: Food and drinks are not allowed in this classroom unless specifically noted by the teacher. However, a water bottle is the only exception.

I. Homework: Homework will be given throughout the week. Homework will be checked and gone over each time assigned. If a calculator is needed to complete the homework, time will be given at the beginning of class to finish the problems.

J. Calculators: If you do not have a calculator, one will be provided for you. Each student will be assigned a calculator in class. I will keep a record of this and if anything happens to your calculator, you will be held responsible. If you choose to purchase your own personal calculator, my recommendation would be a **TI – Nspire**.

K. FREE Graphing Calculator Resources:

- <https://www.desmos.com/calculator> (Graphing Calculator)
- <https://mathway.com/> (Equation Solver)
- <https://mathway.com/graph> (Graphing Calculator)
- Download Free Graphing Calculator Apps for Apple and/or Android Phones

Classroom Rules:

- 1) Be Respectful
- 2) Stay On Task
- 3) Be Assertive
- 4) Be Responsible
- 5) Follow all school rules

Sequence of Assignments and Academic Calendar: In a typical week, students should expect a weekly quiz. Students will also be tested at the end of every unit. Projects will be assigned. A midterm and final exam will be given. The final exam will count 25% of the final semester grade.
I have reviewed the course syllabus and understand the expectations and requirements.

(Student Signature) (Date)

(Parent Signature) (Date)

Please Print Contact Information Below:

Parent/Guardian Name(s) _____

Address _____

Home phone number _____

Parent/Guardian cell number(s) _____

Parent/Guardian Email(s) _____

Is there any other information that I need to know about your child as we begin the semester?

