



High School Math 2 Honors Class Syllabus

John Gaalaas

Room #229

Office hours: Monday, Tuesday, Thursday, and Friday 2:25-3:10pm

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<https://www.westada.org/Domain/10965>



"If you're going to be passionate about something, be passionate about learning" – Daniel Golston

Welcome to my class! The following information is to help you prepare for and understand what will happen in our math class this year!

Prerequisite: Successful completion of Honors HS Math I A & B

Course Description: Honors HS Math II A & B

Course Number(s): 02061H1041, 02061H1042

Open to: 9th & 10th grade Credit: 2 Math

Prerequisite: Successful completion of Honors HS Math I A & B and Signed Rigor Commitment Form

Honors Math II: This course focuses on the formalization of quadratics and the application of mathematical and algebraic concepts to describe and solve geometric situations. This course includes the "plus" (Pre-calculus) standards. A graphing calculator is recommended. This course is an approved NCAA course.

Priority Standards

1. Using Functions to model the relationship between two quantities, interpret key features of graphs and table in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship.
2. Rewrite expressions involving radical exponents using the properties of exponents.
3. Quadratics Functions and their properties: Students will Factor, Complete the Square, Graph, and define the relationship between two quantities:
4. Structure of Expressions: Students will choose and express an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. Factor a quadratic expression to reveal the zeros of the function it defines. Use the properties to produce and define the key features of a graph. Re-write a quadratic into multiple forms to reveal and explain properties of the function.
5. In-depth study of quadrics and the complex plane.
6. Logarithms (this is for Renaissance Student who are taking Chemistry their sophomore year)
7. Geometric Figures: Using the theorems of geometry students will learn to develop logical thinking proof writing in mathematics.
8. Similarity and Right Triangle Trigonometry: Use congruence and similarity criteria for triangles to solve problems and prove relationships in geometric figures. Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.
9. Circles from a Geometric Perspective: Identify and describe relationships among inscribed angles, radii, and chords. Include the relationship between central, inscribed, and circumscribed angles; inscribe angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects the circle.

10. Unit Circle: Move from degrees to radians and the unit circle for angle measure with trigonometric functions.

Grading Procedures

The successful mathematics student will attend class every day, bring all supplies, work cooperatively with their group on class-work, participate in class discussions, listen attentively, challenge themselves when the work is difficult, persevere when tasks are complicated or lengthy, use appropriate resources as aids to learning, clearly explain their work, justify their process and/or prove their conclusions, complete all assignments, make verbal presentations to the class, take and keep notes, study for and satisfactorily complete all assignments.

Grading: Fair and consistent grading will be facilitated through the use of different methods of evaluation. The student will have many opportunities to understand and pass the subject matter. Grades will be determined as follows:

- 90-100% = A
- 80-89% = B
- 70-79% = C
- 60-69% = D
- 59 & below = F

Your grade will be made up of classwork, assessments, and a final exam. Your percent will be calculated by using a weighted scale:

Classwork= 20% (which includes: daily assignments, participation, and other in class activities)

Assessments = 70%

Final End of Course Exam (E.O.C.) = 10% per R.H.S. Math Department Policy.

Materials Needed

It is **required** that you bring the following to class every day:

1. Pencil or pen (preferably a pencil)
2. Notebook or 3-ring binder with loose-leaf paper (preferably graph paper)
3. Positive Attitude! 😊

A graphing calculator is going to be used occasionally and it ***is recommended*** (but not required) that your student purchase a **TI-84Plus** for this class and future courses. These are approved for SAT, ACT, and most colleges. We offer a class set during class time, but if there is a need after class hours the student must use AAP time within the classroom.

Cell Phone Policy: The use of cell phones and other electronic devices during my class is strictly prohibited. I will allow students to use their cell phones once their classwork for the day is completed. ***There will be no warning beyond this.*** The first time I must take the phone I will return it at the end of class. The second time I must take it away, I will give it to the office and their parent/guardian will have to pick it up.

Assignment Submission Procedures

Classwork will be assigned almost daily, and its purpose is for the students to get independent practice. There will be class time provided for starting classwork and getting questions answered as well. All assignments are graded only for completion, not accuracy. All answer keys are provided to the students and it is up to them to ensure that they are accurate in their assignment. Any classwork assigned during the week will be due Sunday at 11:59 PM MDT. All late classwork will be accepted; however, late classwork will be docked 20%. No late work will be accepted after Week 8, Sunday, November 1, 2020 at 11:59 PM MST.

Late Work Procedures

Any assignment that is not submitted and complete by the collection time will automatically be assessed a 20% reduction in the grade and will be recorded as a 0% until submitted.

If a student is absent for final draft submissions, quizzes, or presentations, the student may have an additional two school days upon return to complete the task before the grade reduction is applied (e.g. a student who misses class on Wednesday would need to turn in their completed work on Friday).

“Re-Do” Procedures

Assessments: Assessments will be given weekly, for a total of eight assessments during the quarter. Students have the option to re-take one assessment of their choosing. The student must email the teacher to schedule the re-take. No re-takes after will be scheduled after Wednesday, November 4, 2020.

Assessments must be completed within the provided time limit. The only exception will be those with accommodations on file.

Academic Supports (Pi Center, Scribe, Language Lounge, AAP, Teacher availability, etc.)

Renaissance High School offers several Academic Support Programs to assist students in a number of subject areas. These programs provide students with an opportunity to receive assistance from their teachers and peers.

Every successful student at Renaissance High School makes use of these opportunities in order to succeed in the challenging courses in which they are enrolled. It is essential for students to access the Academic Support Programs regularly in order to succeed with the demands of our rigorous courses.

Preferred Method of Contacting Teacher

Questions or concerns please email me. I will try to respond within 24 hours or Monday morning if you email over the weekend. My email is galaas.john@westada.org

Makeup Policy (from Student Handbook)

Students may be allowed up to two days per absence to complete make-up work for full credit. Assignments or tests that were made prior to the date of the absence are due or will be taken upon return. Senior project due dates are separate from this policy and are due on or before scheduled dates.

Academic Dishonesty (from Student Handbook)

Cheating in any form or manner is unacceptable. Every incident of cheating will be investigated by the teacher/designee and an administrator. The offending student will redo an assignment or assessment similar to the one on which they cheated. This assignment must be completed outside of instructional time. If the student is unwilling or unable to complete the assignment or assessment outside of instructional time the student will receive a zero on the assignment or assessment. The offending student will be assigned disciplinary consequences deemed appropriate by the administrator. Concurrent credit students are expected to adhere to the rules and regulations as set forth in the universities' Student Code of Conduct.

Electronic Devices (from Student Handbook)

Students will use electronic communication or data devices only in a manner consistent with instructional and testing activities in the classroom. These devices include, but are not limited to, handheld calculators, PDA's, pagers, cell phones, music playing devices, cameras, wireless devices, and laptop computers. Use of these devices must not violate any district policy, or cause classroom disruption, nor may they be used in the access, creation, or possession of inappropriate materials (i.e. pornography). Use of electronic devices in the classroom is at the discretion of the teacher. Use of electronic devices outside the classroom is at the discretion of the building principal. Parents or students, who bring any electronic device to school or to a school activity, do so at their own risk. Joint School District No.2 and its schools assume no liability for damage, theft, etc. Videotaping or taking pictures is prohibited on district property (including buses) unless approved by building administration. If the policies are violated, administrators will determine consequences based on the severity of the incident. Additionally, on the first offense the device may be confiscated until a parent/guardian retrieves it from the front office/administration.

Backpacks/Bags

Students are allowed to carry backpacks, sling back backpacks, cinch sacks, briefcases, bags and purses to and from school.

I hope that you have a successful and memorable year!!

I/We have read and understand the syllabus and requirements for this High School Math II Class:

Student's Printed Name: _____ Class Period: _____

Student signature: _____

Parent/Guardian signature: _____

Date: _____

If you have any concerns or any comments, please feel free to write them below.