

Peekskill High School
Algebra II Honors Common Core

Teacher Information:

Miss Schuck / Future Mrs. Lennane
Hamilton College, B.A. Mathematics
SUNY New Paltz, M.A.T. Secondary Math Ed

Class Information:

Period 3
Room 221
Full Year

Contact:

jschuck@peekskillschools.org

(914) 737 – 0201 Ext: 3702

Room 213

Google Classroom Code:

minxd0

Course Description:

This class reviews and deepens understanding of Algebra 1 and Geometry concepts and covers the more advanced topics of Algebra 2; it culminates in a **Common Core Regents** exam in June. While you continue to develop algebraic techniques and explore functions, this class will also ask you to develop alternative problem-solving strategies and algorithms. Topics include complex numbers, powers and roots, relations and functions, linear equations and systems of linear equations, quadratic equations, rational expressions and equations, exponential and logarithmic functions, sequences and series, conic sections, probability and statistics, and trigonometry and its applications.

Objectives: Upon completion of the course, students will be able to...

- Add, subtract, multiply, divide, simplify and/or otherwise manipulate rational, radical, and polynomial expressions.
- Investigate and apply properties of arithmetic and geometric sequences and series to solve real world problems.
- Perform mathematical operations on complex numbers and simplify expressions involving them.
- Solve, algebraically and graphically, absolute value and quadratic equations and inequalities.
- Solve, algebraically and graphically, equations involving rational, radical, exponential, logarithmic, trigonometric, and polynomial expressions.
- Solve nonlinear systems of equations.
- Recognized basic shapes of functions and be able to transform them about the coordinate plane.
- Investigate and analyze functions algebraically and graphically.
- Describe the relationships among solutions of an equation, zeros of a function, x-intercepts of a graph, and factors of a polynomial expression.
- Collect and analyze data, determine the equation of the curve of best fit, make predictions, and solve real-world problems, using mathematical models.
- Identify properties of a normal distribution and apply those properties to determine probabilities associated with areas under the standard normal curve.

Required Texts

- Provided notes in binder

Required Materials: Each day, students are required to bring the following to class.

- Pen/Pencil
- Binder
- Graphing Calculator

Attendance: Class attendance is required every day and is part of your grade through DO NOW assignments! If you are absent, you are responsible for getting any missed notes and making-up all missed homework, quizzes, or tests. If you are absent on the day a homework assignment is due, you must turn it in upon your return to class. If you're absent for several days, you will have the number of days you were absent to make up assignments. For example, if you were absent for 3 days, you have 3 days to make up work and turn it in on the 4th day. Quizzes must be made up within two days of being absent and tests must be made up within a week of being absent – it is YOUR RESPONSIBILITY to schedule a time outside of class to make up these assessments. Failing to comply with these policies will result in zeroes on respective assignments.

Homework: Homework for this class will be mostly online. Homework will be assigned every Monday and is expected to be completed by the next Monday. We will be using the Delta Math program. Delta Math assignments will be a graded or given a participation grade. I will drop the two lowest homework scores each quarter.

Quizzes: There will be half-period quizzes given on every Friday that cover the week's material. This may include Common Core Regents questions. Smaller quizzes may be given during the week to test for fluency of specific skills if necessary. All quizzes will be announced in advanced.

Checkpoints: Short assessments will be given throughout the year to gage your understanding of the standards and content. These assessments will not be graded, but will count for a participation grade. They are meant to assess you understanding and further guide our teaching practices on the standards.

Tests: Full-period exams will be given out at the end of every unit and announced a week in advance. Each test will have both multiple choice and extended response questions. Test corrections are available on every test and you *may* receive half the points back that you lost.

Projects: Projects will be given throughout the year for various topics. These are meant to enhance your understanding of Algebra 2 concepts and demonstrate their applications in the real world.

Grading Scale: Your grade for this course is broken down in the following manners.

Quizzes, Tests, Projects: 45%

All four quarters: 25% each

Classwork: 35%

Homework: 20%

PLEASE NOTE: The Regents exam is no longer calculated into the final grade, but it is required for the Advanced Regents Diploma.

Extra Help: I will most likely be at the high school in room 213 by 7:30am every day. Call back is also every day in Room 213. The Elton Brand Academy is a great resource as well and I will be there a few days per week. If you need even the slightest bit of help, please DO NOT HESITATE to ask.

Classroom Policies: In this class you will be expected to follow all the rules of Peekskill High School as outlined in the student code of conduct and PBIS matrix.

BE RESPONSIBLE

BE RESPECTFUL

BE SAFE

Thank you so much for your cooperation with all these matters. Please forward any questions about this syllabus or class to my direct person or the contact information at the top of this document. I look forward to the school year and starting my career t PHS with you!

Miss Schuck

P.S. On the following page is a signature page that states you and a parent/guardian have read and acknowledged everything on this syllabus. Please read it over with your parents/guardians and hand it in by **Friday, September 13, 2018**. A handwritten note that replicates the following page will also be accepted.

Date: _____

Dear Miss Schuck,

We have just read the syllabus for your Algebra II class. We understand what is expected and will do what is asked to the best of our abilities.

Student's Name: _____

Student's Signature: _____

Parent or Guardian's Name: _____

Parent or Guardian's Signature: _____

CHOOSE THE BEST METHOD TO CONTACT YOU

I would like updates on my child's progress every by email.

Parent or Guardian's Email: _____

I would like updates on my child's progress by phone.

Parent or Guardian's Phone: _____