

Peekskill High School Pre-Calculus

Teacher Information:

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

Class Information:

Period 5
Room 213
Full Year

Contact:

jschuck@peekskillschools.org
(914) 737 – 0201 Ext: 3702
Room 213

Google Classroom Code:

7f65ar

Course Description:

Pre-Calculus weaves together previous study of algebra, geometry, and mathematical functions into a preparatory course for calculus. The course focuses on mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Throughout the course, Common Core standards are taught and reinforced as the student learns how to apply the concepts in real life situations. Topics include fundamental concepts of Algebra, functions and graphs, polynomials and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, topics in trigonometry, systems of equations and inequalities, conic sections and analytic geometry, and an introduction to Calculus. This course culminates in a **final exam** administered in class over several days in June.

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

- Simplify and manipulate various types of algebraic expressions including but not limited to rational, radical, exponential, logarithmic, and trigonometric expressions.
- Solve various types of algebraic equations including but not limited to quadratic, polynomial, exponential, logarithmic, trigonometric, rational, radical equations as well as systems of various equations.
- Graph and identify key features of graphs of various functions including but not limited to quadratic, polynomial, rational, radical, exponential, logarithmic, trigonometric, and conic sections.
- Determine equations of various functions, including inverse functions, and conic sections.
- Discuss the continuity and end behavior of functions as well as determine relative extrema.
- Determine areas and volumes of composite shapes and apply these concepts to problems in a real-world context.
- Use trigonometric ratios and other identities to simplify expressions, solve equations, and prove trigonometric identities.
- Estimate and determine limits using an algebraic or graphical approach.
- Determine derivatives using power, product, quotient, and chain rules.

Required Texts

- Provided notes in binder
- Larson, Roland E. and Robert P. Hostetler. *Precalculus: Third Edition*. Lexington, MA: D.C. Health and Company. 1993. Print.

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 mostly come from the textbook. Homework will be assigned every Monday and is expected to be turned in by Friday afternoon. Homework will mostly be graded on completion; graded homework will be an assessment grade. Homework turned in on Monday will receive a participation grade of 65; all other late homework will be marked as a 55. 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. Smaller quizzes may be given during the week to test for fluency of specific skills if necessary. All quizzes will be announced in advanced.

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 will most likely be through the online Delta Math program and these assignments will be active for two weeks. You will be able to make up these projects after school for a lower grade. Other projects may be assigned to enhance your understanding of Pre-Calculus and provide group work opportunities.

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

Quizzes, Tests: 55%
Projects: 15%
Classwork: 20%
Homework: 10%

All four quarters: 22.5% each
Final Exam: 10%

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 at 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 Pre-Calculus 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: _____