

Cocke County High School

Part 1: Course Information

Instructor Information

Course: Pre-Calculus (HONORS)
Instructor: Tracy Groth
School Telephone: 423-623-8718
E-mail: grotht@cocke.k12.tn.us

Course Description

Applied Mathematical Concepts encompasses topics and concepts that grow out of Algebra. Topics are studied from college Algebra, Trigonometry and analytical Geometry. This course is intended for the student who is seeking to progress to SDC PreCalculus next semester. All assignments adhere to the Tennessee Framework of Standards for Honors Courses.

Prerequisite

General Education/High School Pathway Area

- Algebra 1 Honors, Geometry Honors, Algebra 2 Honors
- This class is for students who have a 19+ on ACT.

Textbook & Course Materials

Required Text

- Pre-Calculus: An Investigation of Functions
- Additional Resources: Khan Academy, Wolfram.com, other online resources and applications

Course Requirements

- **Notebook/binder/folder**
- **Paper**
- **Pencils**
- **Graph Paper**
- **4 Function Calculator**

Course Structure

Methods: The course is taught using a variety of instructional methods including lectures, classroom discussions, small group work, and electronic displays.

Assessment Methods**Cumulative Exams**

- A cumulative exam will be given periodically to check for mastery. Exams will count as 60% of the student's grade.

Cumulative Quizzes

- Cumulative quizzes will be given several times a week. Quizzes will count as 30% of the student's grade.

Homework

- Homework will be given as needed.
- Homework will count as 10% of the student's grade.

Exam

A semester exam will be given in order to prepare for the SDC PreCalculus Exam.

Extra Credit

- **Lowest Quiz Grades:** The lowest quiz grade will be dropped each grading period.
- **Retakes:** Students are allowed to retake quizzes/tests on selected assessments. The student will take a different version of the exam, which is best described as same type of problems with different numbers. The highest exam grade (original or retake) will be put into the gradebook. Retakes must be done at school under my supervision. It may be done during a class block or after school.

Part 2: Student Learning Outcomes

The major work of Applied Math Concepts is from the following domains and clusters:

Topic 1: Equations

Topic 4: Trigonometric Functions

Topic 2: Inequalities

Topic 5: Geometry

Topic 3: Functions

Topic 6: Models and Applications

Part 3: Grading Policy

Assignment Weight:

Homework: 10%

Cumulative Quizzes: 30%

Cumulative Tests: 60%

To calculate grades in Aspen:

$(\text{average Homework})(.1) + (\text{average Quiz})(.3) + (\text{average Test})(.6) = \text{grade}$

Letter Grade Assignment

Letter Grade	Percentage
A	100-90%
B	89-80%
C	79-70%
D	69-60%
F	59-0%

Part 5: Classroom Rules

Classroom rules:

- Respect each other and your teacher
- Be prepared to work and participate in class each day
- Work the entire period. You may prepare to leave 2 minutes before the bell rings
- Remain in your seat unless the teacher asks you to move
- Do not write on the desks
- Students must follow ALL the policies put forth in the student handbook
 - Cell Phone Policy
 - Dress Code
 - Tardy Policy
- Food and Drinks are allowed (as a privilege & may be taken away)
 - Food must be cleaned up
 - Drinks must have a cap on it

***Mrs. Groth is able to add rules as deemed necessary

Academic Dishonesty Policy

If found using a cellphone, copying off of another student, or any other form of cheating, the student will receive a zero for the assignment grade.

Please sign and return to Mrs. Groth

Student Signature

- I understand the required materials to bring to class everyday
- I understand the class description
- I understand the expectations listed above
- I understand the grading policy
- I understand and will follow the class rules

Student Name

Student Signature

Student Email

Parent/Guardian Signature

- I will help my child with the needed materials
- I understand the class description
- I understand the expectation of my child in class
- I understand how my child will be graded
- I understand the class rules my child will need to follow

Parent or Guardian Name

Parent or Guardian Signature

Parent or Guardian Email