

Welcome to Pre-Calculus Honors!!!

Pre-Calculus provides students a complete study of trigonometry, as well as advanced algebra topics, analytic geometry, sequences and series, and data analysis. Applications and modeling will be included throughout the course of study. Appropriate technology, from manipulatives to calculators and applications software, will be used regularly for instruction and assessment. Being an honors class, this course will move at a faster pace, will be more rigorous, and require you to do more independent work. Higher order thinking skills that impact practical and increasingly complex applications will be emphasized throughout this course.

At the end of this course, you will be required to take the NC Common Exam. This exam will count as 20% of your final grade.

Textbook: *Advanced Mathematical Concepts: Precalculus with Applications* by Holliday, Cuevas, McClure, Carter & Marks; Glencoe Publishing Company: Copyright 2004.

Required Materials: No. 2 pencils, loose-leaf lined paper (college rule), binder to contain notes and returned papers (can be shared with another class), Five-Star Notebook (College Ruled 100 pages), TI-84 or TI-83 (plus) calculator, colored pens (pencils) and glue sticks/tape.

Standard Course of Study:

Pre-Calculus Honors

- 1) Functions and Their Graphs**
- 2) Polynomial and Rational Functions**
- 3) Exponential and Logarithmic Functions**
- 4) Trigonometric Functions**
- 5) Analytic Trigonometry**
- 6) Additional Topics in Trigonometry**
- 7) Systems of Equations and Inequalities**
- 8) Matrices and Determinants**
- 9) Sequences, Series, and Probability**
- 10) Topics in Analytic Geometry**
- 11) Analytic Geometry in Three Dimensions/Conics**

Contact Information

Students and parents can feel free to contact me at school by phone or email. This information is listed below. Office hours Monday and Wednesday 3:30 – 4:00 and Monday through Friday 7:30 – 8:30.

Tutoring hours Monday through Thursday 7:30 – 8:25. *After school hours upon request.*

School phone number – (910) 484-1151, ext. 011

School email – tianemckinney@ccs.k12.nc.us

Grading:

Homework

Assignments will be given *daily* in order to understand the concepts in this class. Any assignments not completed in class will become a homework assignment. Homework will be checked randomly for COMPLETENESS and ACCURACY. Ten points will be deducted for each problem not attempted.

Classwork

Quizzes (announced and unannounced) and other class assignments will be given randomly. The majority of quizzes will come from homework assignments and the interactive math notebook. Other class work will be graded at the discretion of the teacher. Warm-ups will also count as classwork assignments.

Tests/Projects

There will be 2-4 tests every six weeks. Ample notification will be given before all tests.

Grade Scale

Tests /Projects 60%
Classwork / Homework 20%
Quizzes 20%

90 - 100 A

80 - 89 B

70 - 79 C

60 - 69 D

0 - 59 F

PowerSchool

All grades will be recorded on PowerSchool. Students/parents can check this any time at <https://idp.ncedcloud.org/idp/AuthnEngine#/authns> using the username and password given at the beginning of the school year.

CLASS GUIDELINES:

Absences

All absences are highly discouraged. A student may not miss more than 8 absences in this class. If a student misses more than 8 absences, he or she can be denied credit for this course regardless of his or her numerical grade. All work missed during an absence MUST be made up. It is the student's responsibility to pick up all missed work and schedule any needed make-up sessions with me! Students must pick up ALL missing work from the "Missing Work Bin" that's in the classroom and make up this work within three days for every day absence.

Behavior

All students should be on their best behavior at all times. This includes, but is not limited to, treating the teacher and other classmates with respect, refraining from working on other course work during class, listening carefully to instructions the first time given and not talking while the teacher is talking. Be mindful of your behavior in the classroom, in hallways, entering the classroom and leaving the classroom. Students will be written a discipline referral for misconduct on school grounds and in the classroom.

Discipline

My discipline plan will generally consist of the following:

- 1st time ... Warning / Conference with student.
- 2nd time ... Contact parent / Student cool down period.
- 3rd time ... Contact parent and lunch detention.
- 4th time ... Parent – Teacher Conference.
- 5th time ... Referral to Administration.

Calculators

Students are encouraged to purchase a TI-83 or TI-84 calculator. These calculators will not only assist you with homework but they can be used throughout high school and college.

Cell Phones

Cell phones should **NEVER** be visible in the classroom. All cell phones that are seen will be taken until the end of class or day (teacher's discretion). **DO NOT** let me see or hear your cell phone **AT ALL!**

Classroom

The classroom will be kept orderly and clean. FTS policy states there should be **NO** food or drinks in the classroom. This rule will be strictly followed. The classroom should also be left cleaner than before you arrived.

Emergency Procedures

Fire – Leave classroom, head out the front doors to the grassy area in front of the school, class stays together, must take head count.

Tornado – Go to the hallway, face wall, knees and elbows on floor, hands cover back of neck and head.

Lock-down - code red, close and lock door, close blinds, lights off, all students move to back corner of room, no talking, stay in position until code green.

Progress Reports/Report Cards

Progress reports are given to the students at the end of the 3rd week of each grading period. This must be signed by a parent/guardian and returned to the teacher. This will count as a homework grade. Dates are:

Progress Reports

February 6th

March 13th

April 23th

May 23rd

Report Cards

March 2nd

April 13th

May 15th

June 15th Mailed Home

Student Signature: _____

Parent/Guardian Signature: _____

Date: _____