

## **Pre-Calculus 2021-2022 B-DAY**

**Mrs. Giocondi**

[carol.giocondi@ucps.k12.nc.us](mailto:carol.giocondi@ucps.k12.nc.us)

### **Course Description:**

Pre-Calculus provides students an honors-level study of trigonometry, advanced functions, analytic geometry, and data analysis in preparation for Calculus or entry-level college math courses. Applications and modeling will be included throughout the course of study. This course will build on students' algebraic skills and understanding of functions and begin to apply those skills to real world applications.

### **Definition of Honors Mathematics:**

Honors Mathematics courses are intended to be more challenging than standard courses and provide multiple opportunities for students to take greater responsibility for their learning. Honors Mathematics courses should provide opportunities for the following:

- . Problem-seeking and problem-solving
- . Participation in scholarly and creative processes
- . Use of imagination
- . Critical analysis and application
- . Personalized learning experiences
- . Learning to express/defend ideas
- . Learning to accept constructive criticism
- . Becoming a reflective thinker
- . Becoming an initiator of learning

### **Units to be Covered:**

Unit 1-- Matrices, Vectors, and Complex Numbers  
Unit 2-- Properties of Functions (including composition and inverse)  
Unit 3-- Polynomial Functions  
Unit 4-- Rational Functions  
Unit 5-- Exponential and Logarithmic Functions  
Unit 6—Conic Sections  
Unit 7-- Trigonometry Part 1  
Unit 8—Trigonometry Part 2  
Unit 9-- Parametric Functions  
Unit 10—Sequences and Recursive Functions

### **Materials:**

3-ring binder/loose-leaf paper  
TI – 84 Graphing calculator (The TI-89 is not permitted) and a 4-function calculator  
Pencils  
Graph Paper

**Class Expectations:** Having proper attendance, completing notes, participating in class, and completing all assignments will be critical for success.

**Behavior:**

1. Observe all rules in the student and UCPS handbooks.
2. Be ready to work when the tardy bell rings.
3. **No food or drink other than clear water is permitted**, unless otherwise documented in a health plan.
4. Respect people, equipment, and furnishings in our classroom.
5. Follow directions the first time they are given.

**Homework/Notebook:**

Students must be willing to work about an hour per day. Homework will not be graded every day; however, it will be necessary to be completed each day in order to be successful in the course. Some assignments will be submitted and graded. Students will have an opportunity to ask questions either in class, through the Remind app, or email prior to turning in assignments.

**Tests/Quizzes:** Quizzes and tests will be announced. Tests will be given at the end of each major topic. **Exam information will be forthcoming**

**Grading System:**

Grades will be calculated accordingly:

(These are approximate values)

Tests: 100 points

Quizzes: 20 - 40 points

Homework/Classwork: 10 points

Grading Scale: A = 90 - 100

B = 80 - 89

C = 70 - 79

D = 60 - 69

F = 0 - 59

**Make-Up Work:**

Students are expected to keep up with their own make-up work from any missed days. Late work will only be accepted if you were absent. All make-up work must be completed and submitted in the time allowed per the Union County policy.

**Extra Help:**

- Remind App (refer to Canvas home page)
- Email (questions asked outside of school hours will be answered on the next school day)
- Morning times by appointment only.