



Precalculus 2020-2021  
Mrs. Maitriyee Mishra  
Email: maitriyee.mishra@ucps.k12.nc.us

**Welcome to Pre-Calculus!** The purpose of this course is to emphasize study of functions and other skills necessary for the study of calculus at college level. Students entering this course should understand functional notation, know how to factor polynomial equations, and know the basic trigonometric functions.

Precalculus is a course designed to prepare students for topics covered in an AP Calculus course at college level. It begins with a comprehensive study of functions and moves into an analysis of beginning **calculus concepts** such as the difference quotient and the notion of “taking a limit.” In addition to introducing students to terminology and concepts essential to the study of Calculus, this course should also help students develop reasoning and analytical skills which may be applied to problems outside the typical realm of mathematics.

### **Course Objectives:**

- Unit 1 : ACT PREP
- Unit 2: Properties of Functions
- Unit 3: Polynomial Functions
- Unit 4 : Rational Functions
- Unit 5: Conic Equations
- Unit 6: Exponential & Logarithmic Functions
- Unit 7: Trigonometry – Part 1
- Unit 8: Trigonometry – Part 2
- Unit 8: Parametric Equations
- Unit 9: Sequence and Patterns

### **Supplies:**

- 3-Ring binder with dividers (for: notes, homework, classwork, warmups)
- Loose leaf notebook paper and Graph Paper
- Pencils – all work should be done in pencils
- Graphing Calculator – TI-83 / TI-84 /TI-84+CE model

### **Hybrid Classroom Expectations:**

- Follow all rules in the student handbook.
- Be in your assigned seat in the classroom or at home and start working on the warm up.
- NO food or drink (this includes chewing gum) in class (except for clear water bottles).
- Use positive communication skills. Be polite, courteous, and respectful.
- No electronic devices are allowed in the classroom unless directed by the teacher.
- Follow all directions given by the teacher.

Any deviations from the above will result in a warning, a parent phone call, an assigned detention, a referral or any such combination.

### **Homework/classwork/warmup:**

- Show all work to receive full credit. I should be able to logically follow your work for each problem. No Credit will be given for a page with answers without work steps.
- Homework is extremely important to be successful in Precalculus. The more time and effort you put into nightly homework, the easier it will be to prepare for quizzes and tests. It is very difficult to cram concepts night before assessments.
- Warm ups/Homework Quizzes will be given daily during the first 15 minutes of the class. They will be graded for accuracy.
- Homework is due next day in class from the day it is assigned.

### **Test and quizzes**

- Tests and Quizzes will be announced in advance. Typically there will be one test and one or two quizzes per unit.
- If you are only absent for a review day, you will be expected to take the test/quiz on the scheduled day.
- If you are absent for a quiz or test, you must have your parent email me on the day of your absence. Makeup test and quiz must be arranged with me within 2-3 days.

**Office hour (Extra help) : Tutoring** is an excellent resource. Whether you have missed a class, struggling with a topic, or have a homework question, utilize this service! I will be available on **Friday from 12:30 pm to 1:30 pm. Every Thursday** you will submit a google form on topics you would like to see discussed.

### **Absent and Late Work:**

- Any time you are absent from class, it is your responsibility to obtain all of your make up work/assignments.
- If **you are absent**, then you have two days to submit your work.
- Late homework/classwork will only be accepted the following day for half credit. The assignment must be fully completed for half credit.
- All assignments and guided notes can be found on Canvas.
- Keep up with all assignments and work or your grades will not keep up with you! No Exceptions!

### **Grading Policy:**

Test : 100 points approx. ( depending on test, point will change accordingly)

Quiz : 30 points approx.(depending on quiz, point will change accordingly)

Assignments/Classwork : 10 points

Graded Assignments: 10 points

**MRHS Honor Code:** "I will not cheat or help others cheat; will take pride in my school and how I represent it; and will be responsible for my actions. I understand that violating MRHS honor code compromises my self-respect."