Hawthorne Academy of Health Sciences
Math III Syllabus

INSTRUCTOR
Ms. Amira Davis
Email: amira1.davis@cms.k12.nc.us
Phone: 980-343-6011
Classroom: B008
Tutorial Hours: Tues & Thurs (by appt), 2:30pm-3:30pm

My name is Ms. Davis. Welcome to Math III! I am very excited to facilitate your learning in this course. I look forward to the progress you will make during your time in this class.

Course Description
This is the third course in a sequence of courses designed to provide students with a rigorous program of study in mathematics. It includes exponential and logarithmic functions, matrices, polynomial functions of higher degree, conic sections, and normal distributions.
(Prerequisite: Successful completion of Mathematics 2 or equivalent).

Instruction and assessment will include the appropriate use of manipulatives and technology. Topics will be represented in multiple ways, such as concrete/pictorial, verbal/written, numeric/data-based, graphical, and symbolic. Concepts will be introduced and used, where appropriate, in the context of realistic phenomena.

Math III is scheduled for 18 weeks of study in which you will be exposed to the above concepts in various ways. We will discuss these concepts in detail throughout our class conversations. My goal for you is to not only be prepared for Advanced Functions and Modeling or Precalculus, but to be better prepared for life. One way we will achieve this goal is by making *you* the center of our learning environment.

My Promises to you:
>I promise to keep you safe. I promise to show you respect at all times.
>I promise to come prepared so that I can give you the very best of me.
>I promise not to leave you behind.
>I promise to treat you like my own children would be treated.
>I promise not to be your best friend.

Materials Required
- o 1-inch 3-ring Binder
- o Mechanical Pencils
- o Graph Paper
- o 5 Subdividers
- o College-Ruled Composition Notebook
- o College-Ruled Notebook Paper
- o Graphing Calculator (TI 83+ or TI 84) for home-use

Course Evaluations
Each of you will be evaluated on the basis of performance in each of the following areas:

Note: You will be notified in advance if our grading percentages change. We will also be following the district grading scale.

60% Formal Assessments (tests, quizzes, projects)
20% Informal assessments (homework, class work)
20% Midterm

Regular math tutoring will be available on Tuesdays. Additional tutoring is available on Thursdays by appointment only. Let me know by the end of the class period if you intend to stay for that day. *You* are responsible for after-school transportation, and you are not required to stay for an entire block of supplemental support.

Retesting Procedures
Students who score an 80 or above will be allowed to do test corrections for half credit back. Students who score below 80 are required to complete test corrections and attend a tutorial session before re-testing. Retesting will be done after school on Thursday in lieu of tutorial hours and the retest will replace the old grade.
*Only one **(1)** re-test is allowed per exam.
*Students must complete the retest within a week of the original exam being returned.
*In order to qualify for a retest, all homework must be turned in and completed on the date of the exam.

Late-work Policy
Late work is accepted for full credit after it is due *with* an **EXCUSED** absence, on the day you return. All other late work is accepted for partial credit (20 points deducted for each day late). On the fifth day, students will receive a **ZERO** for that assignment.

Non-Negotiable Classroom Guidelines
1) Respect the teacher, classroom, and other students.
2) Be on-time, on-task, and prepared to learn everyday.
3) Use the restroom before coming to class.
4) Obey all school and district wide rules.
5) Be responsible for your own learning.
6) Be open and ready to try new things.

Procedures

Before Entering the classroom:
○ Use the restroom.
○ Make sure you have all materials ready (including Home Practice).
○ Line up against the wall and wait to be greeted by the teacher.

When you ***First*** enter the classroom:
○ Pick up warm up and any other materials
○ Take out all class materials from backpack and place it against the wall
○ Be seated
○ Have home ready to turn in
○ Begin the warm up

During Class:
○ Actively participate in class
○ Follow all school/classroom rules and procedures.

2-5 minutes before the bell Rings to ***End*** the period
o Return all borrowed materials to the appropriate locations.
o Pick up all trash and materials from the floor and desks.
o Gather your belongings.
o Leave only when you are dismissed by ***ME***.

Late Work Policy
Late work is accepted for full credit after it is due ***with*** an **EXCUSED** absence, on the day you return. All other late work is accepted for partial credit (20 points deducted for each day late). On the fifth day, students will receive a zero for that assignment.

Remind: Please join the remind class website. Download the remind app on your phone, or remind.com on the computer. The class code is @hawkm3, which you can text to the number 81010. Parents, please sign up as a student.

CHANGES TO THE SYLLABUS

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary. You are responsible for keeping up with all assignments. This syllabus is subject to minor changes. Do check your class schedule and website for any updates.

Unit Outline

Unit 1 Modeling & Reasoning	Properties of Centers of Triangles Theorems of Parallelograms Volume of 3-D figures Modeling
Unit 2 Circles	Equation of a Circle Distance Formula Completing the Square Angle and Segment Theorems Areas of Circle Sectors and Arc Length
Unit 3 Statistics	Sample vs. Population Identifying Inaccurate Results and Lurking Variables Types of Sampling Methods Estimating Population from Sample
Unit 4 Functions and Their Inverses	Exponents vs. Logs Quadratic vs. Square Root Linear to Linear Functions Existence of Inverse Functions
Unit 5 Exponential and Logarithmic Functions	Parts of the Function Graphical Transformations Key features
Unit 6 Modeling with Functions	Absolute Value and Piecewise Functions Key Features
Unit 7 Polynomials Functions	Parts of the Function Fundamental Theorem of Algebra Zeros (Real and Complex) Key Features Remainder and Factor Theorem
Unit 8 Rational Functions	Key Features Operations
Unit 9 Trigonometric Functions	Trigonometric Functions and Angles Unit Circle Radians and Degrees Sine and Cosine Functions

Parent/Student Acknowledgment

I, _____, parent(s) or guardian(s) of Honors Math III student, _____ at Hawthorne Academy of Health Sciences, acknowledge that I have read and reviewed with my student the Honors Math III syllabus and agree to encourage my student to abide by the guidelines and procedures stated on those pages.

Parent/Guardian Signature_____

Date_____

Contact email_____

Contact phone_____

May I text you?   Yes ❏   No ❏

What is the best way to contact you?_____

Does your student have internet access at home? Yes ❏   No ❏

I, _____, an Honors Math III student at Hawthorne Academy of Health Sciences, acknowledge that I have read and reviewed with my parent(s)/guardian(s) the previous pages of this syllabus and agree to abide by the guidelines and procedures stated on those pages.

Student signature_____

Date_____

Contact email_____

Consequences for breaking any classroom guideline:
- First time: Private verbal warning
- Second time: 1-on-1 conversation and reflection sheet
- Third Time: Parent/Guardian will be contacted by phone
- Fourth time: Parent-Teacher-Student Conference
- Fifth time: Admin referral

Please note: This document is your child's first recorded home assignment.