Hawthorne Academy of Health Sciences

Advanced Functions and Modeling Syllabus

# Course Overview

Teacher

Omur Hafizoglu

Phone

980-343-5609

Email

omur1.yakuphafizoglu@cms.k12.nc.us

Room Location

B-208

Tutoring

Tuesdays: 2:30 -3:00pm

**Wish List**

Colored copy paper

Dry-erase markers

Tissues

Hand sanitizer

Paper towels

North Carolina has adopted new curriculum standards for math called the Common Core Standards. Advanced Functions and Modeling provides students an in-depth study of modeling and applying functions. Home, work, recreation, consumer issues, public policy, and scientific investigations are just a few of the areas from which applications should originate.

# Online Text

TBA

# Course Materials

* 3 Ring Binder (2 – 2½ inches)
* Paper
* Pencils
* Graphing or Scientific Calculator!!!!!

# Class Rules

* Show *respect* to yourself, others, and the school.
* Be in your SEAT, quiet, and ready to begin class when the tardy bell rings.
* No one should be out of their seat without teacher permission
* All school dress code rules should be followed. See student handbook.
* Follow directions at the 1st time they are given.
* No food or drinks (except water in a closed bottle)
* No electronic devices (you have to follow school cell phone use policy)

**Grading Scale**

A= 90 – 100 B= 80 – 89 C= 70 – 79 D= 60– 69 F= 59 and Below

Percentages: First 9 week-- 60% Formal Tests, 20% Informal, 20% Midterm

Second 9 week-- 70% Formal Tests, 30% Informal

20% Final Exam

\*\*Students may have no more than 10 absences in the course. More than 10 absences will require attendance recovery to avoid failing the course\*\*

# Course Outline

|  |  |  |
| --- | --- | --- |
| Unit | Topic | Approximate # of Days |
| 1 | Probability | 15 |
| 2 | Univariate Data | 15 |
| 3 | Trigonometry | 15 |
| 4 | Piecewise-Defined Functions | 5 |
| 4 | Power Functions | 5 |
| 5 | Logarithmic Functions | 6 |
| 6 | Calculator-Generated Models | 5 |
| 7 | Recursively- Defined Functions | 10 |

# Assignment Policies

**Homework** is considered part of “informal” grades, and is very important for mastering the topics in Common Core Math III. You will receive a grade based on completeness of randomly selected homework problems of the assignment. Homework will be collected randomly. You must show work on each problem for full credit. *No work means no credit!*

**Make-up work** is given to students with *excused absences*. Students have five days to turn in make-up work for credit*.* It is the responsibility of the student to get the assignments *before* or *after* class, not during class. When you are absent on a test day OR review day only, you will take the test on the day you return. Any quiz or test not made up within a week will become a zero!!

**Re-Testing**: Students who score of 59 or below on a test may earn up to a 70 or half the points lost by completing a test correction sheet signed by their parent and attend a tutorial. It is the student’s responsibility to initiate this process.

Providing a beneficial learning experience requires cooperation and open lines of communication between all parties: students, teachers, and parents.

Students, always feel free to discuss any difficulties that you may be having in this class with me. Also, let me know if you need additional help so that we can arrange a time before or after school.

Parents, if at any time you have questions or concerns about your child or this course, please contact me at Hawthorne Academy of Health Sciences High School. You can reach me at 980.343.5609 or email me at [omur1.yakuphafizoglu@cms.k12.nc.us](mailto:omur1.yakuphafizoglu@cms.k12.nc.us) (best method of contact).

\*The material on this class policy is subject to change with proper notification

**THIS PAPER MUST BE KEPT IN YOUR NOTEBOOK.**

Sincerely,

Mrs. **H**afizoglu

I have read and understand the classroom policy for Mrs. H’s math class:

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_