**Grimsley Senior High School**

Teacher: Stacy Way

ways@gcsnc.com

2018 – 2019

**Advanced Functions and Modeling (AFM)**

**Course Description** Advanced Functions and Modeling provides students an in-depth study of modeling

and applying functions. Work, home, recreation, consumer issues, public policy, and scientific investigations are a few areas from which applications will originate. Each student will complete a Midterm at the end of Quarter 2. The midterm exam will count as a two (2) test grades, while the final exam grade will count for 20% of the final course grade.

**Curriculum Topics** Linear Equations, Quadratic Functions, Exponential and Logarithmic Functions, Cubic Functions,

Quartic Functions, Piecewise Functions, Sequences and Series, Statistics, Right Triangle Trigonometry, Trigonometry Functions, Non – Right Triangle Trigonometry, Probability

**Necessary Materials** Composition Notebook for all Notes

Lined Filler Notebook Paper

3-ring Notebook

Graph Paper

Pencils

Colored Pens (*for correcting assignments only*)

TI-83 plus or TI-84 Calculator (*for home use*)

**Textbook** Stewart, Redlin, & Watson; Algebra and Trigonometry; Books/Cole; 2001. (*Classroom set*)

**Letter Grade**

A 90 – 100 D 60 – 69

 B 80 – 89 F 0 - 59

 C 70 – 79

**Evaluation of Performance**

Tests 50%

 Quizzes & Notebook Checks 30%

 Classwork & Homework 20%

 \*Final Exam 20% of the course final grade

**Evaluation Descriptions**

* + Tests: At the end of each unit, a formal evaluation will be administered, either as a test or project. The designated test day for math is on Thursday. We will test about every 2 weeks.
	+ Quizzes: A quiz will be administered, at least, once a week and may be *announced or unannounced.* Each quiz will evaluate student understanding of the previous day’s topic; however, some quizzes will access understanding of specific information assigned by the teacher.
	+ Classwork: Throughout the semester, students will complete assignments, including starters and class activities, in class. Students should complete classwork on a separate sheet of paper (not in their composition notebook). ***With limited exceptions****, if a student is absent, they will be exempt from a classwork activity.*
	+ Homework: Homework will be assigned **every night**. The homework grade will consist of daily homework checks. These grades will be entered as a weekly average. Homework is a **subjective** grade, based upon how much "effort" is demonstrated. If a student is unable to complete a homework problem, they are to write down the problem, with specific questions (*A simple ‘I don’t know’ will not be accepted*).
	+ Final Exam: The final exam is a cumulative test established by NC DPI, which will evaluate student understanding of all math concepts covered in the units taught throughout the year.

**Policies**

**Electronics Policy:**

 The school cell phone policy is in the GHS handbook. There is no cell phones usage of any kind during class

time. If the student violates this policy, phones will be (1st offense) taken by Ms. Way and returned at the

end of class; (2nd offense) student will be sent to SI; (3rd offense) student will be sent to SI and Administrative referral.

 **Missed Assignments:**

***It is the student’s responsibility to get their missing assignments and meet with Ms. Way for clarification, if needed*.** Students will have **3 days** to make up homework missed on that day. If the student misses a quiz or test, they will have **5 days** to make it up. These assignments are to be made up either before or after school, not during regular class time. If assignments are not made up within the designated time frame, a zero (‘0’) will be entered for that assignment(s).

**Restroom:**

Students are expected to use the restroom during class changes. **Students are not allowed go to the**

**restroom during instructional time**. In case of emergency, a student must first ask permission, sign the

sign out sheet, and use one of the passes issued at the beginning of the quarter. Four (4) Passes will be given

at the beginning of each quarter. If a student loses their passes, ***they will not be replaced***.

**Tardy:**  The school tardy policy is in the GHS Handbook. Tardiness for multiple classes will result in lunch detention. Student who are ten or more minutes late for class are considered skipping and a discipline referral will be completed. (1st offense) warning; (2nd – 3rd offense) Lunch Detention; (4th offense) Administrative Referral

**Tutoring:**

Tutoring will be available on Monday afternoons from 3:55 – 4:50 and Wednesday afternoons 3:55 – 4:30. Students are to arrange their own transportation after tutoring, either late bus or pick up.

 **Progress Reports and Report Cards:**

Progress reports will be distributed on the following dates: **September 27, December 10, February 25, and May 8.** Progress reports are required to be signed by a parent or guardian. Report Cards will be distributed on the following dates**: November 13, January 29, and April 8.**

 **Classroom Expectations:**

Be in your assigned seat before the bell rings.

 Get out necessary materials.

 Be respectful.

 Stay on task.

 No food or drinks allowed. (Water bottles are permitted)

 Work hard and have fun.

 **Contact/Remind 101**

Please email me at ways@gcsnc.com with questions/concerns. If it is an emergency, please call the school at 336 – 370- 8180 and leave a voicemail. Please sign up for classroom updates through Remind. Text @wayAFM to 810-10.

Visit my classroom website! https://sites.google.com/site/ghswaymath/

Please sign this syllabus via Google Docs

https://goo.gl/forms/uDPTTQopqGBjIRU93