

$\leq \pm \div \infty$ **Fall 2014 Advanced Functions and Modeling Syllabus** $\pi \sigma \neq \times$
Mr. Robinson

"Far better it is to dare mighty things, to win glorious triumphs even though checkered by failure, than to rank with those poor spirits who neither enjoy nor suffer much because they live in the gray twilight that knows neither victory nor defeat." – Theodore Roosevelt

Advanced Functions and Modeling is an incredibly important math course. It not only prepares you for topics you will see in college and college preparatory courses and includes an explanation for the way the world works around us, but it is a **graduation requirement**. It has applications in chemistry, physics, engineering, and biology. The big goal for our class is for all students to master all of our objectives and to be 80% proficient in the course. It is a rigorous goal, but you deserve nothing less and with our hard work together this semester, I know we will absolutely achieve this goal! Before we dive into the rules, goals, and procedures for this classroom, I want you to know that I am committed to helping you succeed in this classroom. I am here for you. If you ever have any questions or concerns, please see me before or after class to set up a time to meet. Do not hesitate to call me or email me, if that works best for you. **Be proactive about your education, and I will too.**

COURSE DESCRIPTION:

AFM continues students' study of advanced algebraic concepts including functions, polynomials, trigonometric functions, probability, and statistics. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of function and use those representations to model real-world scenarios.

Contact Information for Mr. Robinson

Room: 813 **Planning Period:** 2nd

Tutoring: Monday and Tuesdays from 2:15 – 3:15

Phone: School: (980) 343- 5992

Email: marvinr.robinson@cms.k12.nc.us

Website: marvinrrobinson.weebly.com

MY BIG GOAL for YOU:

- Every student will achieve at least 80% mastery on all AFM objectives.
- Every student will receive an 80% or better on performance tasks.
- No student will behave in a way which results in an administrative referral.

GRADING POLICY: Will be given out at a later date

TUTORING:

Due to the short amount of time we have together, it is necessary for **ALL STUDENTS** to see me outside of class for additional instruction. I conduct tutoring every Monday and Tuesday after school in Room 813 from 2:15pm-3:15pm. If this time does not work for you, please come and see me and we can work something out.

ABSENCES AND LATE ASSIGNMENTS:

If students are absent, it is their responsibility to make sure they complete the notes from that day, as well as any practice problems. They must also have homework that was due the day they return (*For example, if they miss Monday and return on Tuesday, they will be responsible for having completed both Monday and Tuesday night's homework by the start of class on Wednesday.*).

TEST CORRECTIONS:

I believe that students should always be practicing the work correctly. Therefore, students have the opportunity to increase their test score if they're not happy with it. If they complete the corrections to what they missed, and retest on objectives that they did not master, they will receive half credit on those problems. (For example, a student who received a 60% on an objective and completes the corrections and retest can receive up to an 80% on that objective.) Students will complete the corrections on the form provided by Mr. Robinson and turn it in to the test corrections binder in the classroom within three days of the test. Make-up tests will *only* be administered during tutoring.

Homework will be checked daily. If a Student does not complete a homework assignment on time they have until the "notebook check" to complete the assignment for a maximum score of 80%.

Students will receive all notes and problem sets at the start of each unit. At the close of each unit students will turn in their Unit Notes for a "Notebook Check." At the time of each Notebook Check, every Student is responsible for *every* problem covered in class.

TARDY POLICY: *New for 2014-2015 School Year*

All tardies (excused/unexcused) will be recorded in the tardy log and logged into computer.

Tardy to class consequences:

- | | |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 st – Verbal Warning | 5 th –(ISS) In School Suspension/in addition, Student loses privilege of attending school wide events that occur during the school day. |
| 2 nd - Verbal Warning & Parent Contact | 6 th – Automatic Administrative Referral -- Must attend scheduled monthly Saturday school. |
| 3 rd – Warning with a Written Notice | 7 th – Failure to attend Saturday School will result in ISS |
| 4 th – Mandatory Parent Conference/Telephone | |

HOMEWORK:

Homework is necessary in our class in order to make the most of our time together this semester and give you independent practice that will be critical to your success in this class. If a student needs help on the homework assignment, they should seek help from any of these options (or others) until they are able to complete it: (1) after-school tutoring (2) a classmate*, (3) email Mr. Robinson before 8:30 pm that night to ask questions. Not understanding a homework concept is **not** an acceptable excuse for not completing it. Students who do not understand a problem need to write 3 sentences for that problem explaining where they got confused and why in order to get credit for that homework. In order to be eligible to do test retakes, students must have turned in 90% of homework assignments.

*Asking a classmate for assistance is NOT synonymous with copying their solutions. If a student is caught plagiarizing, both that student and the student that provided that solutions will get 0% and will have the option of doing a make-up assignment.

BEHAVIOR: || RULES ||

1. Follow 100% of the directions, 100% of the time.
2. Be on time and prepared for class.
3. Act respectfully at all times: appropriate actions and language.
4. Be on task at all times.

We have a very rigorous goal, and every moment in class counts. There will be zero tolerance for students who contribute to a negative and/or less productive working environment. The following consequences are put in place to avoid such behavior and recognize those who do what they are supposed to:

Negative Consequences

1. Verbal Warning
2. Teacher-student conference
3. Focus assignment in or out of room (academic probation).
4. Call home
5. Referral to office

Positive Consequences:

1. Verbal recognition
2. Personal notes from Mr. Robinson
3. Positive call home
4. Positive student-teacher conference
5. High Class Grade, Mastery Score, and Graduation!

Notes about Consequences:

Severe behavior will lead to severe consequences. If I decide the above consequences are inappropriate for a student's behavior, appropriate actions will be used. I will do whatever will minimize the negative behavior most effectively and increase our learning time as a class. I also reserve the right to call home at any point if I feel it's necessary.

FINISHING EARLY:

I am committed to not wasting your time in this class! If you finish something early, you are not to just sit or begin talking. There is always something you could and should be doing (Rule #4). Here are a few suggestions:

- 1) *Answer the challenge problems or extra credit assignment*
- 2) *Complete test corrections from most recent test*
- 3) *Work on homework*
- 4) *Review or study for upcoming test*
- 5) *Study or practice for the SAT or ACT (problems provided)*

TOPICS AND TIMELINE:

Quarter 1:

- 1- Probability
- 2- Univariate Data
- 3- Trigonometry

Midterm Exam

Quarter 2:

- 4- Piece-wise Functions
- 5- Logarithmic Functions
- 6- Recursively Defined Functions
- 7- Calculator-Generated Models

End-Of-Course Exam

REQUIRED SUPPLIES:

Please speak to me immediately if you need financial assistance with these supplies.

Two-Pocket, pronged portfolio folder OR three-ring Binder

1-Subject Spiral Notebook

Pencils (plenty), *I WILL NOT PROVIDE PENCILS.*

TI-83+ or TI-84+ calculator is strongly recommended.

THANK YOU!!
