MATHEMATICS
MATH ANALYSIS/ADVANCED TRIGONMETRY
EXPECTATIONS
2013-2014

I.   COURSE DESCRIPTION

This course is a full-year college prep class. This course is designed to provide a comprehensive study of functions, which is the basis of calculus and higher mathematical courses. This course will prepare you for success in first and second year Calculus. You will study the properties and graphs of trigonometric, polynomial, rational, inverse, exponential, and logarithmic functions. You will explore complex numbers, linear inequalities, conic sections, sequences, probability, and statistics. This course will explore real world problems, develop strategies for problem solving, integrate topics and other disciplines, develop concepts through the use of technology, provide opportunity to communicate mathematically, and provide on-going review and self-evaluation.

II.   CLASS EXPECTATIONS

Since you are in this class, you have successfully completed Algebra 1, Geometry, and Algebra 2. Since the California State Department of Education has created higher expectations with their new Content Standards, the district and the high school has committed to following those standards and has also raised its standards and expectations. You are **expected** to use the knowledge that you have acquired in those previous math classes and continue to ascend the ladder of mathematics successfully. Therefore, your expectations of me, yourself, your classmates, and this class should be very high. You have elected to take this rigorous course to prepare you for math in the future so I expect you to take the initiative to be active learners in the class. Each day you walk into this room, you should be ready to learn, teach, and discuss math at a high level. I will accept nothing less than 100% effort each day. This course requires you to spend more time than in the past on your math work both inside and outside of class. You should be ready to work individually, in a group, and as a class. I expect you to use your past mathematical experiences and your desire to learn and succeed to explore and learn new mathematical concepts **intrinsically**. You will be required to go above and beyond the regular mathematics classes you have taken and therefore set yourself up to be more successful in both mathematical areas in the future. You and you only are responsible for your grade in this class.

III.   CLASSROOM EXPECTATIONS

1. There will **always** be a warm-up/quiz assignment for you to begin the math class. It will take up to usually 5-15 minutes to complete. **BE READY EVERYDAY!** Once you enter the room, be prepared to work from bell to bell. The teacher will release you from the class, not the bell. If you have questions about material on the quiz, you need to see me before school, before class, etc, not as I hand out the quiz.

2. PLEASE DO NOT BRING FOOD, DRINKS, GUM, CANDY, ETC., INTO THE ROOM AT ANY TIME WITHOUT PERMISSION. YOU WILL NEVER BE ALLOWED TO CHEW GUM IN THE CLASSROOM. IF YOU BRING A DRINK, IT MUST BE IN A SEALED-TOP CONTAINER, BUT CHECK WITH ME FIRST.

3. My name is Mr. Nelson. You can answer me with a yes sir; no sir, coach or Mr. Nelson, nothing else!! I will always strive to treat you the utmost respect and I will demand it from you. **Furthermore, you will treat your fellow classmates, guests, substitutes, and the room with respect.** REMEMBER CLASS!! When someone in the class is talking, show them respect by listening attentively and not playing with something, not talking to someone else, or not doing something else. The most important person to listen to is someone who may be asking a question, answering a question, or discussing anything in statistics or something school related. **Please do not ask for someone to repeat something due to the lack of your respect or lack of attention.**

4. You will be responsible to maintain the cleanliness of the room and any classroom property at all times. If you see someone writing on your desk or something already written on your desk, please notify me, otherwise you are responsible for the cleaning of that desk. The class will not be released until the cleanliness of the room is acceptable to the teacher and the students.

5. You will never be excused to go to any other class during our class time. **EVER!!** Should you need to use the restroom please get up from your chair, take the pass, and quietly exit the room and return just as quietly. DO NOT RAISE YOUR HAND AND ASK ME IF YOU HAVE PERMISSION TO GO TO THE BATHROOM. YOU NOW HAVE MY PERMISSION. If you are gone for more than the required time or are other places other than the restroom, you will lose the privilege the remainder of the year. You have only one chance to do the right thing.

6. CELL PHONES, IPODS, IPHONES, ETC, ETC, ETC, ARE NOT ALLOWED TO BE ON NOR USED DURING CLASS. IF THEY ARE, IT WILL BE CONFISCATED AND GIVEN TO SECURITY FOR RETRIEVAL PER SCHOOL POLICY! THIS IS YOUR FIRST WARNING AND NOW YOUR LAST WARNING.

IV.   ATTENDANCE

Being successful starts with attending class everyday. Missing quizzes, tests, and/or new material because of absences usually result in lower grades. You need to be responsible for attending class and being prepared to **actively** learn. If you are absent, you must clear the absence prior to accepting any work or giving material for the day missed. <u>You</u> must also email me to let me know you will not make it to class and I can forward the work to you. **You** are responsible to determine what you missed and responsible to make up that work. **You** are expected to know the material that we discussed as a class. Any unexcused absences will result in not being able to make-up any work missed. If you know you will be absent in advance, you must let me know so you can get the work and any other material. The work will be **due the day you return** or it will not be accepted. **If you are absent for a quiz, chapter test, or anything that is due, the <u>only way to make it up and will be graded</u> is if your parents contact me the day <u>prior to or the morning</u> of the day of the absence and explain your absence and _their understanding_ that you are missing a test or work due in which the make-up is decidedly more difficult.**

V.   TARDY POLICY

All students must be seated prior to the sound of the tardy bell. Any student not in assigned seat will be asked to stay after class and be required to do additional work whether in math or the assistance in cleaning the room. Please do not explain the reason for your tardiness. If you have a note, leave it in on my table. The school tardy policy will be enforced!

VI.   GRADING POLICY

Percentages will be based on a running total of all points through the semester. Students are responsible to keep track of their own grades in their notebook. All students must keep all work whether graded or not as to prove that the work was done. Also, if I fail to enter your grade in my gradebook by mistake, you must have proof that you did it. Grading scale is as follows:

Percentage	Letter Grade
90 - 100%	**A**
80 - 89%	**B**
70 - 79%	**C**
60 - 69%	**D**
Below 60%	**F**

The topics that will be evaluated are the following (in percentage order):

1. **Tests and quizzes** (75-80%)
   a) Chapter Tests (100 points each)
   b) Quizzes (5 -25 points each)
   c) Midterm (150 points)
   d) Comprehensive Final (200 points)

2. **Projects**
3. **Homework**
4. **Notebook**
   a) Six Sections
      1) *Warm-up*
      2) *Target* (classwork)
      3) *Toolkit/Resource*
      4) *Homework*
      5) *Quizzes and Tests*

The student is totally responsible for doing all of their work and accepting the consequences for not doing their work. There is no extra credit for missed work. All work must be turned in when due. *I will not accept late work.* All tests and quizzes not taken at the assigned time will result in the student receiving a zero.

VII.   REQUIRED MATERIALS FOR PRECALCULUS EVERYDAY

1. Separate math notebook (I will not accept Spiral Notebooks) with lined or graph paper.
2. Pencil and ruler
3. Scientific or graphing calculator

I will not supply to you any of the above-mentioned material at any time.

INTEGRITY

This Math Analysis/Advanced Trigonometry class, even though it is given in high school, is a college level class. This is the lowest math class given for credit at colleges, all MAAT students must meet a even higher set of standards at all times. Students who plagiarize, lie, cheat or who willfully observe or assist in this conduct and do not report it will have the following consequences---given a negative value for that assignment; referral to administration; parent conference; possible "F" grade for the class.

I, (print your name)_____, accept the above honor code in Math Analysis/Advanced Trigonometry.
Signature (your name) _____

Please fill out information below.
I have read, understand, and acknowledge all of the conditions of the PreCalculus Syllabus.

Name (print) _____

Name (sign) _____

Date _____

Why are you taking this class?

What are your personal goals and how are you going to achieve those goals?

Are you truly committed to be a student of statistics and to be successful?

What is your desired major in college? What is your desired career profession?

Tell me something about you that I need to know that is either interesting or something to get to know you better.