**Functions, Statistics, and Trigonometry (FST)**

**Instructor: Mrs. Jessica B. Schenkel Degrees**: B.S. in Mathematics / College of Charleston

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**Course Description:** Functions, Statistics, and Trigonometry is a course centered around relevant applications of mathematics. Students will study uni-variate and bi-variate data sets, functions (transformations, circular, exponential, and logarithmic), sequences, series, the normal distribution, probability, and simulation. Students earning a 93 or better in this course may be recommended for AP Statistics.

**Prerequisite**: Course credit in Algebra I, Geometry, and Algebra II.

**Classroom Expectations:**

a. **Be prepared**. Bring your notebook, homework, graphing calculator, and pencil every day.

b. **Be on time**. Tardiness is unacceptable. You should be in your assigned seat with your materials ready before the class’ start time.

c. **Be on task**. During class time, you should be engaged and focused on class lessons and activities. Students are expected to work hard and participate in class on a regular basis. This includes both asking questions, participating in class discussions, and being prepared.

d. **Be respectful**. Treat your teacher, your classmates, and their property with the same respect you wish to be shown.

e. **Be responsible**. You must follow all Porter-Gaud School rules as listed in the student handbook.

Failure to follow classroom expectations will result in the following consequences:

* A verbal warning
* Email to advisor, coach (if applicable), parents/guardians
* Detention
* Referral to the dean of students  
  \*Depending on the severity of the offense, you may be sent directly to the dean of students and your parents/guardians will be contacted

**Required Materials:** For this course, each student will need an FST binder (3-ring), a graphing calculator (TI-83, TI 84, or TInspire CX), notebook paper, school provided laptop, and pencils. Since most of our class materials require online sources, bring your laptop in order to access them, but keep it closed or at “half-mast” unless instructed otherwise. Students are expected to bring ALL of these materials with them to class each day. You may not borrow a calculator or computer from another student during a quiz, test, or exam without prior approval.

**Grading:** Grades will be calculated as follows each quarter.

Tests – 60% Quizzes– 25% Homework/Classwork – 15%

**Tests/Quizzes:**  Tests will be given at the end of every unit or major section of work. They will be announced ahead of time and reviewed for during class the day before the test. Quizzes will be given regularly throughout each quarter. These short assessments will enable both teacher and student to evaluate progress, make adjustments, and seek additional assistance if needed before a test. They may or may not be announced.

**Homework:** Homework is an important part of learning mathematics and will be assigned daily. It is expected that all exercises will be completed to the best of the students’ ability. Homework will be checked for completion or accuracy each day. You are expected to do **about 30 minutes** of homework in preparation for each class. If you find yourself needing more than 30 minutes on a regular basis, please tell me right away so I can work with you to find strategies that will make your homework time more efficient. It is not permissible to copy another student’s work; however, it is permissible to for students to work with classmates on homework assignments. **Late homework will not be accepted.** If a student has further questions on homework problems than the time in class permits, students are expected to come for extra help as soon as possible.

**Notebook:** Each student is required to maintain a notebook. The notebook may be a true notebook or a binder (preferred). If a notebook is chosen then the student should also have a folder with a pocket to keep up with homework and quizzes. Notes should be taken every day in class in an organized manner with the date at the top of the page. If you miss a class, it is expected that you will get the notes for that day from a classmate and copy them into your notebook. Extra help will not be given on material missed due to absence until notes from that lesson have been copied and the corresponding assignment has been attempted.

**Makeup Work:**

Daily attendance is the most important task for student success. Please pay careful attention to the requirements for makeup work.

With respect to tests and quizzes, the following rules apply:

-If you are absent the day of a test/quiz, you must schedule your make up with your teacher the day your return to school. It is the student’s responsibility to visit their classroom teacher outside of class minutes to schedule a time to make up the assessment. After one week, assessments which have not been made up will be assigned a failing grade. Make-up tests are not considered to be part of the two tests per day policy (outlined in the upper school student handbook).

-If you are absent the day before a quiz/test you are still expected to take the assessment on the original assigned day.

With respect to homework and class assignments, the following rules apply:

-You have as many days as you were absent complete and show the instructor any homework or classwork that was not turned in on time because you were absent the day the homework or classwork was assigned.

-Assignments that are not turned in due to absence should be shown to me immediately upon your return.

The instructor will not remind you about any missed assignments. It is the student’s responsibility to complete the assignments and show them to me based on the guidelines above.

**Class Website:**

The class website is a very useful and important tool in this course. On the website, I will post all homework assignments, quizzes, and tests along with their due dates. If you are absent, you should check the website before returning to school in order to find out what you have missed.

**“While you were out…” Board:**

In addition to the class website, the “While you were out…” board in the classroom is a great tool to help with missed assignments. Any materials handed out in class while you are gone will be in your class’s folder.

**Miscellaneous:**

-You must show ***all*** of your work in order to receive full credit. Points will be deducted for a lack of work shown.

-You should use the restroom before class. In order to leave class to use the restroom you must use one of the bathroom passes you are given at the beginning of the semester. Each bathroom pass that you save can be turned in at the end of the semester and redeemed as one point on the semester exam.

-All dress code guidelines apply in the classroom.

-Your cell phone must be placed in the assigned cell phone pocket at the beginning of each class. Failure to do so will result in it being turned in to the Dean of Students.

-Inappropriate language is not tolerated in the classroom, and use of it will result in a detention.

-Grades will be posted on Net Classroom regularly. Please check it on a daily basis to stay informed about your progress in the class.

-In addition to the class website, please check your email regularly in case of changes to assignments or dates.

**Extra Help:**

I will be available for extra help most days after school until 3:45. Please let me know when you would like to come in for help to schedule a specific time.

**Honor Code:**

**The Porter Gaud Honor Code states “As a student of Porter-Gaud, I will not lie, cheat, or steal.”**

All given assignments are to be done in accordance with the honor code.

The Math Department is confident that all Porter-Gaud students have a basic understanding of right and wrong. We expect that you will use this understanding to guide your judgment regarding honor on all of your assignments. There are three points that we want to make abundantly clear.

1. When in doubt, ask your teacher. However, you should ask for permission, not forgiveness. That is, if you are unsure of a rule, you should ask before you do something that may be considered an honor violation.

2. On homework assignments, working together is acceptable. However, copying is not. When working together, you and your partner should work through the problems side by side. Doing so allows you to help each other understand the steps as you proceed. Simply copying a classmate’s work or copying from a digital source is cheating, and it will be viewed as an honor violation.

3. On all tests and quizzes, you are expected to work on your own without the aid of another individual, notes, a cheat sheet, cell phone, iPad, laptop, etc… before, during, or after the assessment unless otherwise specified explicitly by your teacher. This condition also applies to take-home tests. Discussing any aspect, even level of difficulty, of an assessment with or in the presence of a student who has not yet taken it is an honor violation for all students involved.

Once you and a parent/guardian have read and understand the above material, please sign and date below.

Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_