

Functions, Statistics, and Trigonometry

Mr. Brown

Room 130

2007-2008

Textbook

Advanced Mathematical Concepts, Glencoe/McGraw-Hill, Columbus, OH. Copyright 2004.

Course Description

FST is a course for college bound students. The following topics will be covered: functions, systems of equations, graphs, logarithms, statistics, combinatorics, and trigonometry. Students should have their own Texas Instruments Graphing calculator, Model TI-82 or newer.

Objectives & Goals

- A. Effectively uses a variety of strategies in the problem-solving process.
- B. Understand and applies basic and advanced properties of the concept of numbers.
- C. Uses basic and advanced procedures while performing the process of computation
- D. Understands and applies basic and advanced properties of the concept of measurement.
- E. Understands and applies basic and advanced properties of the concepts of geometry.
- F. Understands and applies basic and advanced concepts of data analysis and distributions.
- G. Understands and applies basic and advanced concepts of probability and statistics.
- H. Understands and applies basic and advanced properties of functions and algebra.
- I. Understands the general nature and uses of mathematics.

Grading Scale

94-100	A	74-76	C
90-93	A-	70-73	C-
87-89	B+	67-69	D+
84-86	B	64-66	D
80-83	B-	60-63	D-
77-79	C+	Below 59	F

Supplies

A 1" binder is **recommended** to keep notes, handouts and homework organized.

A graphing calculator – Math Department recommendation is TI-83, TI-83 Plus, TI-84, or TI-43 Plus
You need to bring your class material and a writing utensil every day to class.

Grade Components

Quarter Grade:

- Homework Assignment 10 pts
- Quiz Score 100 pts
- Test Score 200 pts

Semester Grade

- 40% - Quarter 1 grade
- 40% - Quarter 2 grade
- 20% - Semester test

Absences

If you are absent, it is your responsibility to find out what you missed and to get your assignments. As stated in the student handbook, you have as many days for makeup as you missed. Pre-excused – You will be required to get your assignments before you are gone.

Work missed due to an unexcused absence will be recorded as a "0".

Cheating will not be tolerated. Anyone caught cheating will receive a "0" for the assignment/test and will also be punished depending on the severity of the issue.

Classroom Rules and Expectations

1. Be respectful of each other.
2. Please deposit all non-recyclable material in the black garbage can, and all paper products in the blue garbage can.
3. Please make it your choice to come prepared to class daily. If you make the choice not to do your assignment, I will not give you credit after you turn it in late. Please look over the Academic Non-compliance Policy in your student handbook.
4. If you are tardy to class, these are the following consequences:
 - 1st tardy – warning
 - 2nd tardy – one office detention
 - 3rd tardy – three office detention
 - 4th tardy – discipline referral
5. Please be on time to class, I do follow the tardy policy.
6. Please make it your responsibility and choice to use appropriate language.
7. Please follow Internet and computer lab rules when using the computers in my classroom.
8. It is your responsibility to obtain a pass or have your red student planner signed to leave the room every time. If you are not returning, you will need to have your red student planner.

TENTATIVE SCHEDULE

UNIT 1	Linear Relations and Functions Daily Assignments Review, Quizzes and Test
UNIT 2	Systems of Linear Equations and Inequalities Daily Assignments Review, Quizzes and Test
UNIT 3	The Nature of Graphs Daily Assignments Review, Quizzes and Test
UNIT 4	Polynomial and Rational Functions Daily Assignments Review, Quizzes and Test
UNIT 5	Trigonometric Functions Daily Assignments Review, Quizzes and Test
UNIT 6	Graphs of Trigonometric Functions Daily Assignments Review, Quizzes and Test
UNIT 7	Trigonometric Identities and Equations Daily Assignments Review, Quizzes and Test
UNIT 8	Exponential and Logarithmic Functions Daily Assignments Review, Quizzes and Test
UNIT 9	Statistics and Data Analysis Daily Assignments Review, Quizzes and Test
UNIT 10	Combinatorics and Probability Daily Assignments Review, Quizzes and Test