

MATHEMATICS DEPARTMENT

East Early College High School

Louena Manluctao

Phone: 713.847.4809

E-mail: لمانلكت@houstonisd.org

Conference Time: A: 12:15-1:45; B:9:35-11:50 (Tentative)

Tutoring Schedule: Mondays, Wednesdays, Thursdays: 7:00 am and 3:30 pm

Mathematical Models with Applications

Course Syllabus and Outline

Course Description: Students will use a variety of representations (concrete, numerical, graphical, verbal, and tabular) and technology to solve applied problems. Real-life applications problems will involve finance, probability, fine arts and science.

Course Objectives: Upon completion of the course, the students will be able to solve mathematical problems, communicate mathematically, create and interpret mathematical representations and models, make efficient and appropriate use of technology to solve real-life problems.

The following chapters are addressed but not necessarily in the order they are presented:

- **Introduction to Problem Solving and Mathematical Models**
- **Problem Solving with Graphical and Statistical Models**
- **Function Models and Problem Solving**
- **Problem Solving with Financial Models**
- **Modeling with Exponential, Trigonometric, and Variation Functions**
- **Using Geometric Models to Solve Problems**

Textbook: Mathematical Model with Applications, The Consortium for Foundation Mathematics

Materials/ Supplies

1.5" inch binder	spiral notebook	college ruled notebook paper
5 dividers	map pencils	graphing calculators (provided for classroom use)
Graph paper	pencils	

Missed Exams or Assignments

All tests will be announced at least 2 days in advance. The tests are designed to be taken during the 90 minute class period. No extra time will be given before or after school or at lunch. Make-up for exams must be taken before or after school during tutoring time. Assignments missed due to an absence will be due the day after you returned to class.

Grading

Homework (Almost Everyday)	10%
Daily Work/Class Participation/	
Projects/Journals	20%
Quizzes	20%
Tests	<u>50%</u>
Cycle Grade	100%
Semester Grade:	80% of Cycle Grade + 20% of Final Exams

Extra Points : Offered through tutorials, extra assignments

Classroom Rules

1. Respect others at all times
2. Talking in class is not acceptable during times of instruction or independent work time.
3. Do not apply make-up, nail polish, comb or brush hair in class. No make-up mirrors, pictures, magazines, or non-educational material are to be viewed during class . No headphones, CD players, cellular phones, or radios allowed during class.
4. Do not write on desks or walls.
5. Chewing gum, eating or drinking is not allowed.
6. Be prepared and have all required materials and supplies.

NOT FOLLOWING CLASSROOM RULES WILL GET WARNING ON FIRST OFFENSE AND A DETENTION ON SECOND OFFENSE.

PARENTS, please read the information in this letter carefully. The receipt of the completed bottom portion of this page by Tuesday/Wednesday, August 26-27, 2008 with your contract information will result in a 100 on this assignment for your child. I look forward to hearing from you and I'm looking forward to a wonderful school year! Thank you.

I have read the above information and understand my responsibility in order to be successful in the study of Mathematical Models with Applications.

Student Name: _____ Date: _____

Student Signature: _____ Class Period: _____

Parents Name: _____ Date: _____

_____ Date: _____

Parents Signatures: _____

Contact Phone #: _____ Is this home, business or cell phone ?

Contact Email _____

