

MATHEMATICS DEPARTMENT

East Early College High School

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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
Pre-Algebra I

Course Syllabus and Outline

Course Description: Algebra 1 is a course designed to analyze real life situations, generate equations to model those situations, and make predictions based on the functions generated. This is an introductory course that emphasizes abstraction and critical thinking in mathematics. Students will master the essential concepts of algebra as it is used to generalize problem-solving situations and gain an appreciation and understanding of its historical roots

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

Chapter 1: Connections to Algebra

Chapter 2: Properties of Real Numbers

Chapter 3: Solving Linear Equations

Chapter 4: Graphing Linear Equations and Functions

Chapter 5: Writing Linear Equations

Chapter 6: Solving and Graphing Linear Inequalities

Chapter 7: Systems of Linear Equations and Inequalities

Chapter 8: Exponents and Exponential Functions

Chapter 9: Quadratic Equations and Functions

Chapter 10: Polynomials and Factoring

Chapter 11: Rational Equations and Functions

Chapter 12: Radicals and Connections to Geometry

Course Objectives: Algebra 1 Students will learn to: • Classify patterns as linear or non-linear ; • Solve all forms of linear and quadratic equations and inequalities; • Solve problems involving very large and very small numbers ; • Use proportions to solve real life problems; • Use TI 84 to create recursive and functional patterns (e.g., compound interest and functional patterns)

Textbook: Algebra II: McDougall Littell

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: _____

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

Contact Email _____

