MATHEMATICAL MODELING

Insert Teacher Name   Insert Room Number

Semester   Insert Period

Insert Email Address

COURSE DESCRIPTION

This course will involve the use of algebraic and trigonometric functions with technology to analyze quantitative relationships and illustrate the role of mathematics in modern life; graphical numerical and symbolic methods. Most sections require a graphing calculator; some require work with a computer spreadsheet. This is an introductory level college math course.

COURSE OBJECTIVES

Students should:
- Develop quantitative literacy so that they can function effectively in college, the workplace and society
- Be able to use technology and mathematical reasoning to solve real-world problems
- Be able to make connections between mathematics and the real world and communicate their discoveries
- Combine functions and graphs with data modeling to explore/investigate real-world problems and questions
- Use graphing calculator methods in lieu of traditional symbolic manipulation to solve a variety of problems.

UNITS OF STUDY

- Functions and Mathematical Models
- Linear Functions and Models
- Natural Growth Models
- Continuous Growth and Logarithmic Models
- Quadratic Functions and Models
- Polynomial Models and Linear Systems
- Bounded Growth Models
- Trigonometric Models

GRADING

Summative Assessments:	Insert % Here (Minimum of 70%). Insert Categories/Weighting (ie. Papers – 30%)
Formative Assessments:	Insert % Here (Maximum of 30%). Insert Categories/Weighting (ie. Quizzes – 50%)
Behavioral Characteristics:	Insert % Here (Maximum of 10%) Insert Categories/Weighting (ie. Particip. - 90%)

Insert Additional Grading Information Here

MATERIALS

Insert Course Materials Here (ie. Textbook, Binder, Calculator, Highlighters)

EXPECTATIONS OF STUDENTS

EXTRA HELP

Insert Course Expectations Here

Insert Additional Information Here