

Name of School:

Name of Course: **Math for Liberal Arts**

Instructor Information

Name:

E-mail address:

School phone number:

Web page address:

Best times to be reached:

Course Description

A mathematics course designed for the liberal arts student. The course covers a broad spectrum of topics designed to help the student survey and develop skills that lead to an appreciation of the value and uses of mathematics. The course will include four units. The first three will be: Unit 1: Problem Solving, Sets and Logic, Unit 2: Counting Methods and Probability, and Unit 3: Statistics. The fourth unit will be chosen from the following topics: Numeration Systems and Number Theory, Consumer Math (Mathematics of Finance), Social Choice and Decision Making.

District Standards and Power Benchmarks

Numbers and Operations Standard: Understands and applies concepts of numbers and operations.

1: Understands numbers, ways of representing numbers, relationships among numbers, and number systems

Data Analysis & Probability Standard: Understand and apply concepts of data analysis and probability

2: Selects and uses appropriate statistical methods to analyze data

3: Develops and evaluates inferences and predictions that are based on data

4: Understands and applies concepts of probability

Problem Solving Standard: Understands and applies problem solving strategies

1: Uses a variety of strategies to solve problems

2: Justifies the process used to solve a numerical problem

Communication Standard: Communicates and reasons mathematically

1: Expresses ideas using mathematical terms and representations

2: Uses tools (such as technology) to enhance mathematical learning

Connections Standard

1: Recognizes and makes connections among mathematical ideas and contexts outside of mathematics

Develop a capacity to engage in logical thinking

Course Information

Course length: One term joint enrollment with EICC
Credits: .5 per term – EICC 3 Sem. Hrs.
Prerequisite: Algebra 2

Course Outline/Calendar

- Unit 1: Problem Solving, Sets and Logic
- Unit 2: Counting Methods and Probability
- Unit 3: Statistics
- Unit 4: Consumer Math (Mathematics of Finance)

Text/Other Required Materials/Resources

Title: *Thinking Mathematically*
Author: Blitzer
Publisher: Prentice Hall (2011)

Instructional Procedures & Support

Students are expected to bring all supplies to class every day including the textbook, a notebook, pencil and graphing calculator. Students are expected to participate in class discussions and in small group discussions. Written assignments will be given daily and should be completed before the next class period. Good attendance and punctuality are essential for success in this course.

Classroom Management Procedures

1. Students are expected to be in class and on time.
2. All tardies will result in a classroom consequence.
3. All unexcused absences will be dealt with according to the school attendance policy.
4. Students are responsible for completing make-up work in a timely manner.

Assessment Plan

Assignments	20%
Quizzes/Tests	65%
Final Exam	15% (Use of formula sheet <u>only</u> , No notes)

Grading System

Grades will be determined by the DCSD Grading Scale.

100-90	A
89-80	B
79-70	C
69-60	D
59-0	F