

Name of School:

Name of Course: **Intermediate Math**

### Instructor Information

**Name:**

**E-mail address:**

**School phone number:**

**Web page address:**

**Best times to be reached:**

### Course Description

This two-term course is designed for students who have completed both terms of Algebra, but are not prepared to enroll in Geometry. Topics covered are: computational skills, algebraic skills such as solving equations, graphing, polynomials, quadratic equations, basic geometric concepts and measurement, and basic probability and statistics concepts. Students who are successful in this course should consider taking Geometry.

### District Standards and Power Benchmarks

Number & Operations: Understands and supplies concepts of numbers and operations

1. Understands numbers, ways of representing numbers, relationships among numbers, and number systems
2. Understands meanings of operations and how they relate to one another
3. Computes fluently and make reasonable estimates

Algebra: Understands and applies concepts of algebra and functions

1. Understands patterns, relations and functions
2. Represents and analyzes mathematical situations and structures using algebraic symbols
3. Uses mathematical models to represent and understand quantitative relationships

Geometry: Understands and applies concepts of geometry

1. Analyzes characteristics and properties of two- and three-dimensional geometric shapes and develops mathematical arguments about geometric relationships
2. Specifies locations and describes spatial relationships using coordinate geometry and other representational systems

Problem Solving Standard: Understands and applies problem solving strategies

1. Uses a variety of strategies to solve problems

### Course Information

Course length: Two-term

Credits: .5 per term

Prerequisite: Both terms of Algebra

## Course Outline/Calendar

Term 1:	Term 2:
Unit 1: Sample and Display Data	Unit 6: Graphic Functions
Unit 2: Foundations of Algebra	Unit 8: Systems of Equations and Inequalities
Unit 3: Equations and Inequalities	Unit 9: Polynomials
Unit 5: Logic and Geometry	Unit 10: Three-Dimensional Geometry
	Unit 11: Right Triangle Trigonometry (optional)
Major Course Assessments:	1) Mid-Chapter Quizzes
	2) Chapter Tests
	3) Final Examination

## Text/Other Required Materials/Resources

The textbook is *MathMatters2* by Glencoe, McGraw Hill, copyright 2006.

Each student is expected to have his or her own calculator with at least the capabilities of the TI 30 series, but preferably a graphing calculator such as a TI 83+. Everyday, each student should bring the textbook, a spiral notebook for note taking, paper for assignments, his or her own calculator, and a pencil.

For those students who have access to the Internet, Glencoe/McGraw Hill has a resource link at: [www.mathmatters2.com](http://www.mathmatters2.com) (These online study tools include comprehensive review and intervention tools, self-check quizzes, extra examples, chapter assessments and standardized test practice)

## Instructional Procedures & Support

Teaching strategies and methods of instruction include direct instruction, cooperative learning, individual practice, and hands-on calculator/computer activities, the Socratic method, higher order thinking activities, and student note-taking. Each student will be expected to take notes during class lecture time, complete class assignments and complete any make-up work resulting from excused absences, all within the teacher's stated deadlines. Each student will have some type of assignment each day, due the next class day, unless informed otherwise.

Students who seek extra help may make arrangements with the teacher.

## Classroom Management Procedures

Success in any class is directly related to attendance. Students who are absent from class are responsible for all work missed. Tardies and excess absences will be handled on an individual basis following established building policies.

## Assessment Plan

Homework	10%
Projects and other graded assignments	20%
Chapter Quizzes and Tests	60%
Final Examination	10%

Student percents/grades will be shared periodically throughout each term so each student may keep abreast of his/her status. He/she will also receive a formal mid-term grade. At the end of each term, he/she will receive a final examination grade and final "overall" term grade. This final "overall" grade will determine whether he/she has passed the course and is used in calculating his/her high school GPA.

## 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

