



**KENOSHA UNIFIED SCHOOL DISTRICT NO. 1
CURRICULUM AND INSTRUCTIONAL SERVICES**

HIGH SCHOOL COURSE SYLLABUS

MATHEMATICS DEPARTMENT

Math Applications (330511 & 330512)

Number of Credits: 1

Prerequisites

Successful completion of Algebra 1 (312011 & 321012) or Algebra 1A/1B (311011, 311012, 311013, & 311014) and Geometry (321011 & 321012)

Course Description

Math Applications focuses on the practical skills needed in a wide variety of trade and technical areas and everyday situations. Students use direct, practical approaches that emphasize careful, complete explanations and applications. The use of calculators as a necessary tool for workers in trade and technical areas allows students to solve real world problems while focusing on the concept and reasonableness of the answer. This course may not fulfill requirements for admission to a 4-year state university.

Relevance

Math Applications allows students to explore the mathematics of the real world through a direct practical approach to mathematics. It supports fundamental math concepts with practical applications in a variety of technical and career vocations, such as, automotive, interior design, welding, and many other fields.

Course Standards

- | | | |
|---------------------------|----------------|-------------------------------|
| A. Mathematical processes | C. Geometry | E. Statistics and probability |
| B. Number relationships | D. Measurement | F. Algebraic relationships |

Most essential benchmarks may be viewed at: www.kusd.edu.

Lifelong Learning Standards

- | | | |
|------------------------|--------------------------|------------------------|
| • Knowledgeable person | • Effective communicator | • Quality producer |
| • Complex thinker | • Self-directed learner | • Contributing citizen |

Lifelong learning benchmarks may be viewed at: www.kusd.edu.

Course Outline

Semester 1

- Review of basic skills: whole numbers, fractions, and decimals
- Ratio, proportion, and percent
- Measurement
- Pre-algebra skills and applications
- Basic algebra skills and applications

Semester 2

- Practical Plane Geometry
- Study of solid figures and their applications
- Right triangle trigonometry
- Systems of equations and quadratic equations
- Statistics: graphs, measures of central tendency, measures of dispersion

Board-Approved Instructional Materials

- Carman, Robert A. and Saunders, Hal M., *Mathematics for the Trades 8th edition*, Pearson Prentice Hall, 2008 (ISBN 978-0-13-232102-0)
- Companion Website: <http://www.prenhall.com/carman>

Methods of Assessment

Final exams should be cumulative in nature, emphasizing the most essential benchmarks for the course. Results of the final exam represent 20 percent of the final grade, but this single measure *may not* drop a student's grade by more than one letter grade. In courses that rely heavily on a major project, performance exhibition, etc., the project should be divided into stages or components and each of those should be graded separately, providing students with frequent and specific feedback.

Board-Approved Grading Scale

Excerpts taken from School Board Rule 6452

GRADING SCALE

| | | | |
|-------------------|------------------|------------------|------------------|
| A+=98-100 percent | B+=86-89 percent | C+=76-79 percent | D+=66-69 percent |
| A=93-97 percent | B=83-85 percent | C=73-75 percent | D=63-65 percent |
| A-=90-92 percent | B-=80-82 percent | C-=70-72 percent | D-=60-62 percent |
| | | | F=0-59 percent |

MAKE-UP WORK

Students submitting work up to ten school days late without prior approval may receive up to two grades lower on the work than they would have received if the work had been submitted on time (i.e., B+ lowered to A D+). Student work submitted after ten school days without prior approval shall not be accepted for credit and shall be recorded with a score of zero.

Upon returning to school after an absence, a student has the responsibility within the number of days equal to the length of the absence or suspension to meet with the teacher to develop a plan for making up missed work, quizzes, and examinations. A truant student has the responsibility on the first day he or she returns to the course/class to meet with the teacher to develop a plan for making up missed work, quizzes, and examinations. Lower grades may not be given for late work due to excused absences, suspension, or truancy unless the work is submitted later than agreed upon deadlines.

See Rule 6452 in its entirety at: www.kusd.edu