

MATHEMATICS DEPARTMENT

Math Applications

Course No: 04200

Length: 40 Weeks

Grade Level: 11-12

Credit: 1

Prerequisites: MATH IBX

Course Description and Objectives:

Math Applications is offered to students who have completed two years of math in the high school program (Math I A/X and Math I B/X), and have already passed one math regents exam (required for a regents diploma), but will not opt for the *Advanced Regents Designation*. All high school students are required to satisfy at least three years in a math sequence of courses that are locally developed, and based on this sequence. If a student's schedule allows, Intermediate Algebra will provide a fourth math course in the sequence for targeted students.

The course is intended to continue to develop proficiency with mathematical skills, with the level of instruction for topics covered progressing to a level above that of Math A. The following topics of the course will be presented in a manner that will integrate problem solving strategies and technology (i.e. graphing calculator):

Algebra through and including the Quadratic Equation

Number Theory

Ratio and Proportion

Geometry including Area, Volume & Surface Area

Statistics and Data Analysis

Financial Applications

Optional Topics: Conic Sections, Set Theory, Trigonometry

Course Requirements & Evaluation Criteria:

- Performance on quizzes, chapter tests, class participation, notebooks, homework, projects and a final.