ROSLYN HIGH SCHOOL

DEPARTMENT: MATHEMATICS

NAME OF COURSE: Common Core Algebra 1

GENERAL DESCRIPTION:

Common Core Algebra 1 is a one year course which introduces the student to the fundamentals of algebra. The common core curriculum for algebra, is an intensive look at algebra and functions, it also includes additional topics in probability and statistics. Students will be introduced to the graphing calculator and will work with it in class during lessons appropriate to its use.

In addition to the development of skills necessary for the students' progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. This course concludes with a Regents Examination.

MAJOR TOPICS COVERED:

Among the topics covered during the year will be order of operations; properties of real numbers; solving linear equations graphing linear equations and functions; writing linear equations; solving and graphing linear inequalities; systems of linear equations and inequalities; exponents and exponential functions; quadratic equations and functions; polynomials and factoring; rational equations and functions; and radicals.

TEXTBOOKS: Integrated Algebra 1 Amsco School Publications

REQUIREMENTS:

Students are expected to maintain a set of well-organized notes in a mathematics notebook, complete daily homework assignments, and read selections from texts as assigned. Regular attendance is expected, and students are to make up work missed due to absences. Students should seek extra help during the school day in the mathematics study center or after school with the teacher when necessary. Appropriate behavior, respect for self and others, and participation in classroom activities are expected.

GRADING PROCEDURES:

The grade for each of the four marking periods is determined by unit exams, quizzes, and timely completion of homework assignments. Extra credit options are given at the discretion of the teacher. Upon completion of the course, students will take the Integrated Algebra 1 Regents Examination exam which will comprise one-fifth of the final average.