

MATHEMATICS DEPARTMENT

Integrated Algebra B

Course Number: 04720

Length: 40 Weeks

Grade levels: 10-12

Prerequisites: Integrated Algebra A

Course Description and Objectives:

Integrated Algebra B is the second year in a two-year mathematics sequence designed for the student who will benefit from extended time to pass the Integrated Algebra Regents exam. This course is an integrated, topical approach to mathematics that aims to develop proficiency with mathematical skills, expand understanding of mathematical concepts, and improve logical thinking by teaching students how to read and comprehend a mathematical problem.

Topics integrated within this class are taken from the New York State Performance Indicators and include:

- Operations with Radicals
- Solving Quadratics Algebraically and Graphically
- Solving Systems of Quadratic-Linear Equations
- Exponential Functions
- Pythagorean Theorem and Right Triangle Trigonometry
- Operations with Algebraic Fractions

Instructional Processes and Materials:

Include daily classroom lectures, demonstrations and discussions, guided practice through homework assignments, review of Integrated Algebra A topics (re-teaching as needed) and use of available technology.

Course Requirements and Evaluative Criteria:

Include completion of assigned homework, regular participation in classroom activities, performance on quizzes, unit tests, and a mid-year exam (optional), daily maintenance of a notebook, and sitting for the Integrated Algebra Regents.