

## **CP 2024 Algebra II Summer Course Outline**

### **Course Materials**

Students should bring a notebook and pencil. The Learning Center provides the hardcover text, BIG IDEAS MATH, Algebra 2, A Common Core Curriculum by Ron Larson Laurie Boswell. teacher will add supplementary materials when needed.

Every effort is made to follow the New Jersey Department of Education Student Learning Standards for Mathematics, and to prepare students for exams at their schools in August. (Please see: [New Jersey Student Learning Standards for Mathematics \(nj.gov\)](http://www.nj.gov) )

The course topics cover, but are not limited to, the following: linear functions, systems of linear equations and inequalities, quadratic functions, complex numbers, exponential and logarithmic functions, rational and irrational algebraic functions, quadratic relations, and systems, higher-degree functions, sequences and series, probability, data analysis, functions of random variable, trigonometric ratios and functions.

### **Course Description**

This course is an accelerated study of high school Algebra II and is meant to fulfill the credit requirement. It is a six-week program, Monday through Friday, four hours per day, or 20 hours per week, plus three sections of midterm and final review and assessment, totaling 130 hours.

The course follows the NJSLS, while accounting for possible variations in schools represented by attending students. All classroom instructors are certified math teachers with many years of teaching experience.

Student progress is assessed daily. Homework is required and reviewed every day. There are two tests per week, lasting either an hour or ninety minutes depending on material covered. On days when there is no test, quizzes will be given. Course grade depends 60% on test performance, 35% on quizzes, and 5% on homework. Also, students must show all their homework and classwork to receive full credit.