

## CURRICULUM OVERVIEW: ALGEBRA II

### COURSE DESCRIPTION

A second-year algebra II course.

### DAILY/WEEKLY RHYTHM

Class always begins with prayer and/or a scripture reading. There are frequent homework quizzes, typically covering recent material, and generally at the beginning of class. Class instruction includes review, lecture, examples, discussion, and class practice problems. Text reading and skill practice are fundamental learning activities.

### CONTRIBUTION TO LEARNING GOALS

Advanced algebra instruction builds upon previous knowledge and skills. Utilization of logical, mathematical thinking skills, and processes grown and nurtured in previous courses are necessary for learning success. Through reading, lecture, exploration, and in-class practice, and similar activities at home, students develop important skills in algebraic procedures and abstract mathematical thinking.

### LEARNING OBJECTIVES

More detailed discussion of learning objectives is found in the Curriculum Guide for Algebra II. Major objectives include the following: Students will...

1. Be familiar and comfortable with the use of algebraic symbols and techniques and the language of algebra
2. Develop useful mastery of problem-solving skills involving linear and quadratic equations
3. Become adept in the use of power and exponential functions, composite functions
4. Master basic functions of logarithms and their use
5. Achieve mastery of graphing of linear and quadratic functions, the quadratic formula, solving more complex systems of equations and inequalities, and more complex polynomial factoring

### ASSESSMENT

Assessment tools include teacher observation, homework problems, quizzes, and tests. Grades are determined by weighted averages of homework (10%), quizzes (40%) and tests (50%).

## PARENT INVOLVEMENT

Parents are encouraged to check RenWeb frequently to monitor their children's lessons, homework assignments, and grades. In cases where a student is struggling with comprehension or motivation, the teacher will contact the parents by phone or email. The teacher will seek to work together with the parents to find a plan that is best for the specific situation. This may include heightened accountability for assignments, peer tutoring, assistance from the teacher, and/or additional instruction through on-line videos