



Course Syllabus

ALGEBRA II

Code:	432000	NCAA Approval:	Yes
Level:	High School	QM Certified:	Yes
Duration/Credit:	1.0 Credit/Year	Textbook:	None
Prerequisites:	Algebra I	Materials:	None
Standards:	Arkansas Secondary Math Standards	Technology:	VA Technology Requirements
Pacing Guide	432000 Algebra II Sem 1 Pacing Guide 432000 Algebra II Sem 2 Pacing Guide	Alignment Matrix:	Alignment Matrix

Course Introduction

Watch the [course introduction video](#) or read the [video transcript](#) for a brief introduction to the course.

Course Description

This course builds on knowledge and skills gained from Algebra 1. Starting with a review of basic algebra, students will travel through quadratic equations, systems of equations, factoring, and polynomial functions. In the second segment, students will venture into the realms of radicals, rational equations, matrices, exponential and logarithmic relations, and land at sequences and series. This course allows students to learn while having fun. Interactive examples help guide students' journey through customized feedback and praise.

Course Level Objectives

The objectives for this course include the following:

- Apply properties of radical expressions, rational exponents, and complex numbers to solve problems.
- Compose, compare, and perform transformations on functions.
- Use arithmetic sequences, matrices, and systems of equations to solve linear equations.
- Using key features of quadratics, write and solve problems that show quadratic relationships including graphs and systems of equations.
- Using key features of exponential and logarithmic relationships, write and solve problems that model these relationships including equations, graphs, and the connections between the two types of functions.
- Using key features of rational and polynomial functions, write and solve problems. This includes systems of equations, graphing, and representing expressions in equivalent forms through operations such as adding, subtracting, multiplying, and factoring.
- Create and solve equations (both rational and polynomial) including systems of equations and use key features of those functions to graph them.
- Assess how to carry out statistical experiments, draw conclusions based on the gathered data, and explain why those conclusions make sense in statistical studies.



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Course Participation Information

There are other pieces of important information about your participation in a Virtual Arkansas course. This information can be found in your course in the Virtual Arkansas Program Syllabus.