



# Algebra II

## Grand Haven High School



**Course Number:** E45A / E45B

**Grade Level:** 11th - 12th

**Credits :** 1 credit

**Prerequisite Courses :** Algebra I and Geometry

### Course Description

Algebra II provides those students encountering difficulties understanding algebraic concepts a less vigorously paced course of algebraic processes, practice, and procedures. Those students who plan on enrolling in Pre-Calculus in the following year should take Honors Algebra II or will need to additionally enroll in Trigonometry with this course. A graphing calculator is strongly recommended.

### Course Objectives

The first semester will review concepts taught in Algebra I and build skills to solve systems of equations with two or more variables. The second semester will focus on functions: power, inverse, logarithmic, and rational. We will also work with rational expressions and conics

### Student Expectations

A positive attitude will bring positive results, and all students and staff are expected to do their personal best in class daily. Respect for yourself, others, and the environment around you will also be expected from everyone in the classroom. If student's behavior is disrespectful or disruptive, discipline actions will follow.

### Communication

Each teacher for this course will maintain an active classroom blog or website to assist students in their learning. Teachers will also be available through email contact and phone.

### Grading Policy

Test: 50%

Quizzes: 30%

Assignments/Participation: 20%

### Building Behavioral Expectations

***TEAM GH ... One Team, One Family, One Grand Haven. Be Kind. Always.***

It is our expectation that ALL GHHS students, staff and parents will ... always give their best **EFFORT** in everything that they do, work hard to be **INCLUSIVE** of each other, show **RESPONSIBILITY** in class, the hallways, cafeteria and at events, and **WORK TOGETHER** at all times!

**GO BUCS**

## Scope and Sequence

1st Semester:

- CH 1 Expressions, Equations, and Inequalities
- CH 2 Functions, Equations, and Graphs
- CH 3 Linear Systems
- CH 4 Quadratic Functions and Equations
- CH 5 Polynomials and Polynomial Functions
- CH 6 Radical Functions and Rational Exponents

2<sup>nd</sup> Semester:

- CH 7 Exponential and Logarithmic Functions
- CH 8 Rational Functions
- CH 9 Sequences and Series
- CH 10 Quadratic Relations and Conic Sections
- CH 11 Probability and Statistics
- CH 12 Matrices
- CH 13 Periodic Functions and Trigonometry
- CH 14 Trigonometric Identities and Equations

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