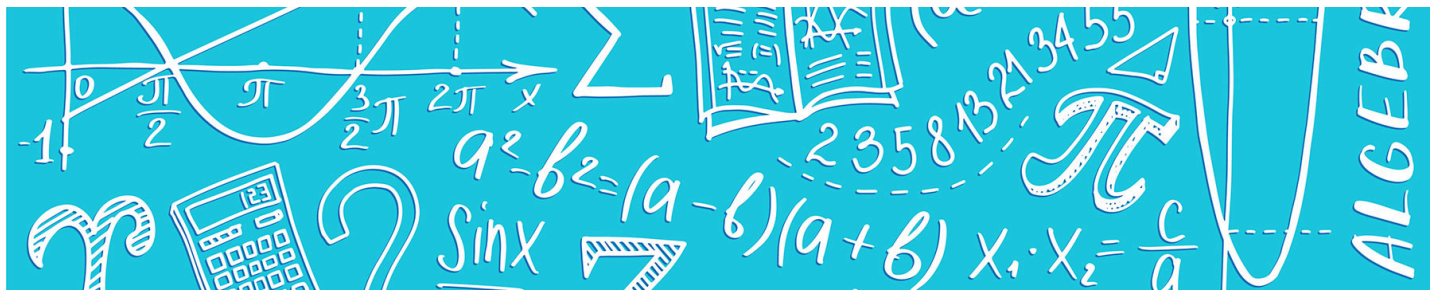


Algebra 2, Part 2

Syllabus



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Course Description

Algebra 2 part 2 covers four major concepts of upper algebra skills including piecewise functions, systems and advanced equations, statistics, and trigonometry. Along with learning these four pieces of knowledge, the course will also have you develop 21st Century Skills in reasoning as well as the attribute of resilience.

Prerequisites

There are no prerequisites for this course.

It is recommended, but not required, that students take Algebra 1 Part 1 & 2 and Algebra 2 Part 1 prior to taking this course.

Course Materials and Technology

There are no textbooks required for this course, all content can be found within the course lesson pages.

Students must buy these materials and technology to complete the course:

- a handheld graphing or scientific calculator or a Desmos online calculator (found at desmos.com/scientific or desmos.com/calculator only) during the final exam; no other calculator is allowed.

Course Outcomes

As students complete the course assignments, they will increase their knowledge, improve a 21st-century skill, and develop an attribute.



Knowledge: Algebra 2, Part 2

In this course, *knowledge* refers to the subject matter and content students will learn while completing the readings, practices, quizzes, and assignments.

On successful completion of this course, students will be able to do the following:

1. Identify function types by both graphs and equations, and determine the function types that create piecewise functions.
2. Solve systems of equations through graphing and algebraic methods.
3. Evaluate and Analyze data using statistical calculations.
4. Solve complex problems through the use of trigonometric functions and formulas.



21st-Century Skill: Critical Thinking—Reasoning

As students complete this course's assignments, they will gain skills in *Reasoning*. This skill is part of *Critical Thinking*.



Attribute: Resilience

This course focuses on developing the attribute of *Resilience* in the context of mathematics.



Grading and Assignments

The letter grade in this course will be based on these assignments and exams.

Assignment or Exam	Grading	Percent of Total Grade
Study Guides	Computer-Graded	10%
Assignments	Computer-Graded	20%

Assignment or Exam	Grading	Percent of Total Grade
Written Problems	Teacher-Graded	15%
Module Quizzes	Computer-Graded	35%
Midcourse Quiz	Computer-Graded	10%
Final Exam	Computer-Graded	10%

Assignments and Exams

Due Dates

The due dates in the course are only suggestions to help the students pace themselves. You do *not* need to complete assignments, quizzes, and exams by the due date set in the course.

Study Guides

Study guides are provided for each module. They will help students focus on the important concepts needed to be successful in this course and in life. Study guides will be due in each module and points will be awarded upon submission.

Assignments

Assignments give students a chance to practice and reinforce what they have learned in each module. They help students check their understanding and build skills through guided activities and questions.

Module Quizzes

Quizzes are administered at the end of each module. Each quiz is open-book/note and untimed. They consist entirely of multiple-choice questions and come directly from the lesson material and the videos.

Midcourse Quiz

This computer-graded quiz covers the material up to the midcourse quiz. The questions on the midcourse quiz are similar in format to the questions on the final exam.

Final Exam

The final exam consists of 30 questions. It covers all course content.

Course Grade

The letter grade will be calculated according to these percentages.

Percent to Letter Grade Calculation	
A	100%–93%
A–	<93%–90%
B+	<90%–87%
B	<87%–83%
B–	<83%–80%
C+	<80%–77%
C	<77%–73%
C–	<73%–70%
D+	<70%–67%
D	<67%–63%
D–	<63%–60%
F (fail)	<60%–0%