

Algebra II S1 & S2

Course Information

1 Credit

Asynchronous Spark Course

Course Site: <https://akgrad.sparkeducation.com/>

Prerequisites: Algebra I

Description: Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms.

Course Organization: The course is divided into seventy-six lessons contained in ten units. The first unit is a review of Algebra I. Lessons are a blend of text and video and include example problems and practice problems. Lessons are followed by a quiz and/or assignment. At the end of each unit is a test covering all the material from that unit.

Materials Required:

- Computer or tablet with Internet access

Academic Dishonesty: With most correspondence courses as well as AKGrad & YKSD, honesty of parents and students is essential. If an AK Grad teacher confirms that a student has plagiarized work or used AI, the student will receive a 0 and be subject to consequences determined by their school of record.

Grading: In this course you will be graded on quizzes, tests, assignments, and post-assessments.

- **Quizzes:** There are 63 quizzes. Quizzes are mostly computer scored and you can see your incorrect answers immediately so you can retake if necessary. The question format is largely multiple choice but can also include fill-in-the-blank, matching, or short answer. It is also permissible to use notes, study materials, and books on the quizzes. You have 2 tries to take each quiz and additional attempts can be given upon request.
- **Tests:** There are 10 tests. The tests are meant to reflect how much you have learned while completing the lessons. The question format is largely multiple choice but can also include fill-in-the-blank, matching, or short answer.

- **Assignments:** There are 14 assignments. Assignments are pdf documents used to practice new concepts and show your work. Assignments are teacher graded and are heavily weighted.
- **Post-Assessments:** Post-assessments are cumulative. There is a post-assessment at the end of each quarter.

The following grading scale will be used for determining your final grade. After completing the course with a "D-" or better you will receive one Carnegie credit from the Yukon Koyukuk School District.

Percent	Grade
97% - 100%	A+
93% - 96%	A
90% - 92%	A-
87% - 89%	B+
83% - 86%	B
80% - 82%	B-
77% - 79%	C+
73% - 76%	C
70% - 72%	C-
67% - 69%	D+
63% - 66%	D
60% - 62%	D-
< 60%	F

Course Schedule: Though you are in charge of your own schedule, we will encourage you to create a schedule for completing the course. As your teacher, I will support you in meeting your goals. A pacing guide is provided in the course. The following is a list of Units that need to be completed.

Units:

<u>Semester 1</u>	<u>Semester 2</u>
<ul style="list-style-type: none">● Unit 1: Interpreting: Functions● Unit 2: Quadratic Functions and Factoring● Unit 3: Polynomials and Polynomial Functions● Unit 4: Rational Expressions & Functions● Unit 5: Radical Functions and Rational Exponents	<ul style="list-style-type: none">● Unit 6 Creating and Solving Equations-Inequalities● Unit 7: Systems of Equations● Unit 8: Statistical Analysis● Unit 9: Sequences and Series● Unit 10: Trigonometric Functions

Subject to Change

This syllabus and schedule are subject to change in the event of extenuating circumstances. Your instructor will notify you of changes via Spark announcements.