

COURSE SYLLABUS

ALGEBRA 2

COURSE DESCRIPTION

Included in this course is the study of a variety of function families, including polynomial, rational, radical, exponential, logarithmic, and trigonometric functions. Students will also make connections between operations with integers and operations with polynomials and explore the structure of expressions involving polynomials. They will work with the complex number system and study its properties. Students will develop mathematical knowledge that will increase their ability to communicate and reason with mathematical concepts. This course offers a solid foundation for further study of mathematical relationships.

BY THE END OF THE COURSE, STUDENT WILL GAIN THE FOLLOWING:

- The enhancement of mathematical knowledge.
- Confidence with numbers, patterns, and relationships.
- An ability to consider and solve problems and present and interpret results.
- Improved communication and reasoning using mathematical concepts.
- A solid foundation for further study.

COURSE UNITS

- Unit A – Linear Equations
- Unit B – Graphs & Functions
- Unit C – Exponents & Polynomials
- Unit D – Quadratic Functions
- Unit E – Rational Expressions
- Unit F – Radicals
- Unit G – Exp & Log Functions
- Unit H – Statistics & Probability
- Unit I – Sequences & Circles
- Unit J – Trigonometry

COURSE ASSIGNMENTS

The course will follow the high school grading scale:

ASU PREP GRADE SCALE

Letter Grade	Percent Range	Grade Points
A	100% to 90%	4.0
B	89% to 80%	3.0
C	79% to 70%	2.0
D	69% to 60%	1.0
F	59% to 0%	0

GRADING CATEGORIES

Your course will be divided into three different categories with the following weights:

- Assignments 40%
- Assessments 40%
- Semester Final 20%

TECHNOLOGY REQUIREMENTS

DEVICES

Devices that are less than 5 years old is recommended.

- Desktop
- Laptop
- Chromebook
- Microphone and webcam

OPERATING SYSTEMS

- Windows 10 and newer
- Mac OSX 10.6 and newer
- Linux
- ChromeOS

INTERNET SPEED

- High speed internet (recommended)

SUPPORTED BROWSERS

- Edge (latest version)
- Safari (latest version)
- Chrome (latest version)
- Firefox (latest version)

SUPPORTED BROWSER PLUGINS AND SETTINGS

- Javascript enabled
- Flash - latest version is recommended
- 1024x768 is recommended
- Pop-up blockers should be disabled
- Cookies should be enabled.

VIRTUAL REALITY (VR) /AUGMENTED REALITY (AR)

Some courses have Virtual and Augmented Reality experiences which are best viewed with devices that are AR/VR enabled. These experiences can have large file sizes and it is recommended that they are downloaded over wi-fi. Minimum Devices:

- iPhones 5S
- Samsung Galaxy S5
- Newer VR/AR enabled devices (Recommended)

Please contact support.asuprep.org for further assistance.

ACADEMIC INTEGRITY

In this course we practice the “ASU Prep Way,” and as a part of this policy, it is essential for students to complete their own work at all times. Cheating means using the work of another person as their own, copying information or answers from another student, plagiarizing, allowing another student to copy work, excessive collaboration on an assignment meant to be done individually, or sharing test/quiz questions/answers with students who have not yet taken the test/quiz. If a student is caught violating these guidelines, he/she will receive disciplinary action according to school policy.