COURSE SYLLABUS

GEOMETRY

COURSE DESCRIPTION

Included in this course is a study of both two and three-dimensional shapes, congruence, similarity, transformations and the relationships between geometric shapes. Students will develop mathematical knowledge that will increase their ability to communicate and reason with mathematical concepts. This course offer a solid foundation for further study of mathematical relationships.

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

- The ability to develop mathematical knowledge and oral, written, and practical skills in a way that encourages confidence.
- The ability to read mathematics, and write and talk about the subject in a variety of ways.
- An enhanced sense for numbers and carrying out calculations.
- An understanding of the significance of obtained results.
- The ability to apply mathematics in everyday situations and develop an understanding of the part that mathematics plays in the world around us.
- The ability to solve problems, present the solutions clearly, check, and interpret the results.
- A developing understanding of mathematical principles.
- The ability to use mathematics as a means of communication with emphasis on the use of clear expression.
- The ability to produce and appreciate imaginative and creative work arising from mathematical ideas.
- The ability to develop mathematical abilities by considering problems and conducting individual and cooperative inquiry and experiment, including extended pieces of work of a practical and investigative nature.
- The ability to acquire a foundation appropriate to further study of mathematics and of other disciplines.

COURSE UNITS

- Unit A – Algebra Review
- Unit B – Segments and Angles
- Unit C – Reasoning and Lines
- Unit D – Polygons
- Unit E – Similarity
- Unit F – Trigonometry
- Unit G – Transformation
- Unit H – Area and Volume
- Unit I – Circles
- Unit J – Probability and Data

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.