

Geometry Part 1&2

Prerequisite Courses

- Math 8 or Algebra Part 1
- Algebra 1

Prerequisite Essential Concepts

- Solving Equations
- Graphing on Coordinate Plane
- Middle School Geometry Concepts

Program of Studies Key Concepts

This course is designed for students who may have struggled with Algebra I and who intend to earn a standard diploma. Similar to Algebra I, Part I, this course will allow you to earn two credits for Geometry upon the completion of Geometry Part II or regular Geometry. You must pass both courses in order to receive two credits. If you have passed Algebra I, Geometry Part I and Part II, then you will have the three credits of math required for the standard diploma. If you take the course as a sophomore, you will still have the option of taking Algebra II as a senior in case you change your mind and would like to try for an advanced diploma.

- Basic Concepts
 - Points, Lines, Planes
 - Angle & Segment Measurement
 - Angle and Segment Bisectors
- Logic
 - Inductive & Deductive Reasoning
 - Two Column Proof
 - Venn Diagram
- Parallel & Perpendicular Lines
 - Transversal & Parallel
 - Corresponding Angles
- Triangles and Congruence
 - Classification & Proof
 - Coordinate Proof
- Properties of Triangles
 - Perpendicular & Angle Bisectors
 - Concurrency, Median, Altitude
- Ratio, Proportion & Similarity
 - Geometric Mean
 - Similar Polygons
- Right Triangles
- Polygons
 - Classification
 - Angle Measure
 - Area of Regular Polygons
- Circles
 - Arcs and Chords
 - Inscribed Angles
 - Tangents and Secants
 - Circumference
- Solids
 - Surface Area
 - Scale Factor
 - Isometric Drawings
 - Nets
- Transformations
 - Reflections
 - Rotations
 - Translations & Dilations
 - Dilation
- Constructions
 - Congruency

Homework Expectations

- 60 minutes per 90 minute class

Basic Supplies

- TI-83 or TI-84 Calculator
- Pencils, Erasers, Paper
- Ruler, Graph Paper
- Compass, Protractor

Student Testimonials

[Click Here](#)

○ Pythagorean Theorem

○ Bisectors

○ Trigonometric Ratios