

Course Title: GEOMETRY B	Course Description
<p>Course No. 4204 Grade level: 9-12</p> <p>Text and Resource Options: A. <i>Discovering Geometry</i>; Key Curriculum Press B. <i>AGS Geometry</i>; Part I, AGS Publishing</p>	<p>Course Value: *One Semester</p> <p>Credit Value: 1 – 5 credits</p>
<p align="center">Course Content: Key Content Standards and Course Objectives</p>	
<p>This course is based on the following Grades 8-12 Geometry Standards:</p> <ol style="list-style-type: none"> 1. Students solve problems involving perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures (8.0). 2. Students compute the volumes and surface areas of prisms, pyramids, cylinders, cones and spheres. 3. Students compute areas of polygons (9.0). 4. Students determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and solids (11.0). 5. Students prove theorems by using coordinate geometry (17.0). 6. Students know the definitions of the basic trigonometric functions defined by the angles of a right triangle. They can also use elementary relationships between them (18.0). 7. Students use trigonometric functions to solve for an unknown length of a side of a right triangle, given an angle and a length of a side (19.0). 8. Students know and are able to use angle and side relationships in problems with special right triangles (20.0). 9. Students prove and solve problems regarding relationships among chords, secants, tangents, inscribed angles, and polygons of circles (21.0). 	<p>This course is a continuum of the Geometry standards found in Geometry A. It will prepare students to construct formal logical arguments and proofs in geometric settings and problems.</p> <p>The geometric skills and concepts developed in this discipline are useful to all students.</p> <p>*Open entry/open exit</p>
<p align="center">Methods of Study</p>	<p align="center">Evaluation of Performance Standards</p>
<ol style="list-style-type: none"> 1. Students will complete all activities assigned. 2. Students will participate in discussion with other class members and/or teacher. 	<ol style="list-style-type: none"> 1. Students will complete all assignments with a minimum of 70% accuracy. 2. The supervising teacher will be satisfied with the quality of the student's work. 3. The student must receive a minimum score of 70% on a teacher assigned final evaluation. 4. Letter grade contracts are optional and require a higher level of performance.

GEOMETRY B

Course Outline: 4204

I. Textbook Assignment:

A. *Discovering Geometry* (1.0-5.0 credits)

(Direct instruction or course contract required).

B. *AGS Geometry*, Part II (5.0 credits)

- Complete: even-numbered problems in Chapter 7.
- Complete: Chapter 7 “Review,” even-numbered problems.
- Complete: even-numbered problems in Chapter 8.
- Complete: Chapter 8 “Review,” even-numbered problems.
- Complete: even-numbered problems in Chapter 9.
- Complete: Chapter 9 “Review,” even-numbered problems.
- Complete: One “Application” activity from Chapters 7-9.
- Complete: even-numbered problems in Chapter 10.
- Complete: Chapter 10 “Review,” even-numbered problems.
- Complete: even-numbered problems Chapter 11.
- Complete: Chapter 11 “Review,” even numbered problems.
- Complete: even-numbered problems in Chapter 12.
- Complete: Chapter 12 “Review,” even numbered problems.
- Complete: even-numbered problems in Chapter 13.
- Complete: Chapter 13 “Review,” even numbered problems.
- Complete: One “Application” activity from Chapters 10-13

II. Extension Activity

Infused into textbook assignment.

III. Evaluation

- Unit and/or final test
- All textbook work must meet the 70% accuracy level for a “C” grade.