

Course Title: COLLEGE PREP GEOMETRY B	Course Description
<p>Course No. 4256 Grade level: 9-12</p> <p>Text and Resource Options: A. <i>Geometry: Applications, Measurement & Reasoning</i>; Part II; McDougal-Littell B. <i>Geometry: Concepts and Skills</i>; McDougal-Littell</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.

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Course Outline: 4256

I. Textbook Assignment:

A. *Geometry: Applications, Measurement & Reasoning*, Part II (5.0 credits)

- Complete: Sections 7-1 to 8-4, even problems.
- Complete: Chapter 7 “Summary and Review”, even problems.
- Complete: Chapter 7 Test, even problems.
- Complete: Sections 8-5 to 9-6, even problems.
- Complete: Chapter 8 “Summary and Review,” even problems.
- Complete: Chapter 8 Test, even problems.
- Complete: Chapter 9 “Summary and Review,” even problems.
- Complete: Chapter 9 Test, even problems.
- Complete **one** of the following activities: 7-2, 8-2, 8-4, 8-7, or 9-2.
- Complete: Sections 10-1 to 11-4, even problems.
- Complete: Chapter 10 “Summary and Review,” even problems.
- Complete: Chapter 10 Test, even problems.
- Complete: Sections 11-5 to 11-8, even problems.
- Complete: Chapter 11 “Summary and Review,” even problems.
- Complete: Chapter 11 Test, even problems.
- Complete Chapter 6 “Summary and Review,” even problems.
- Complete: Chapter 6 test, even problems.
- Complete **one** of the following activities: 10-4, 11-2, or 11-5.

B. *Geometry: Concepts and Skills* (1.0-5.0 credits: direct instruction or course Contract required).

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.