

Course Description

A. COVER PAGE

<i>Date of Submission (Please include Month, Day and Year)</i>	
1. Course Title Geometry	9. Subject Area <input type="checkbox"/> History/Social Science <input type="checkbox"/> English <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Laboratory Science <input type="checkbox"/> Language other than English <input type="checkbox"/> Visual & Performing Arts <input type="checkbox"/> Intro <input type="checkbox"/> Advanced <input type="checkbox"/> College Prep Elective
2. Transcript Title(s) / Abbreviation(s) a-g Geometry A & B	
3. Transcript Course Code(s) / Number(s) 5E1005 & 5E1009	
4. School Ocean Grove Charter School	
5. District San Lorenzo Valley	
6. City Santa Cruz	10. Grade Level(s) for which this course is designed <input type="checkbox"/> 9 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 11 <input type="checkbox"/> 12
7. School / District Web Site http://www.ogcs.org	11. Seeking "Honors" Distinction? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. School Course List Contact Name: Janelle Brewer Title/Position: Curriculum Specialist Phone: (530) 295-3566 Ext.: 46 E-mail: jrucker@jeminc.org	12. Unit Value <input type="checkbox"/> 0.5 (half year or semester equivalent) <input checked="" type="checkbox"/> 1.0 (one year equivalent) <input type="checkbox"/> 2.0 (two year equivalent) <input type="checkbox"/> Other: _____
13. Is this an Internet-based course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If "Yes", who is the provider? <input type="checkbox"/> UCCP <input type="checkbox"/> PASS/Cyber High <input type="checkbox"/> Other _____	

14. Complete outlines are not needed for courses that were previously approved by UC. If course was previously approved, indicate in which category it falls.

A course reinstated after removal within 3 years. Year removed from list?

Same course title? Yes No

If no, previous course title?

An identical course approved at another school in same district. Which school?

Same course title? Yes No

If no, course title at other school?

Year-long VPA course replacing two approved successive semester courses in the same discipline

Approved Advanced Placement (AP) or International Baccalaureate (IB) course

Approved UC College Prep (UCCP) Online course

Approved CDE Agricultural Education course

Approved P.A.S.S./Cyber High course

Approved ROP/C course. Name of ROP/C?

Approved A.V.I.D. course

Approved C.A.R.T. course

Approved Project Lead the Way course

Other. Explain:

15. Is this course modeled after an UC-approved course from another school outside your district? Yes

No

If so, which school(s)? Golden Valley and Connecting Waters Charter Schools

Course title at other school a-g Geometry

16. Pre-Requisites

Algebra 1, with a grade of "C" or better

17. Co-Requisites

None.

18. Is this course a resubmission? Yes No

If yes, date(s) of previous submission? _____

Title of previous submission? _____

19. Brief Course Description

This course concentrates on the basic terms of geometry, giving their meanings and notations. Measurement, angles, congruent triangles, parallels, and polygons are studied, with an emphasis on proving theorems. More advanced theorem proofs, as well as a study of similarity, loci, area, volume, circles and spheres are also included.

B. COURSE CONTENT

20. Course Goals and/or Major Student Outcomes

- Students will examine two and three dimensional figurines and their properties.
- Students will be able to explain the use of geometric figures in geometric figurines.
- Students will demonstrate how to correctly complete geometric proofs, geometric figures, and trigonometric functions

21. Course Objectives

Objectives	Standards
Inductive vs. Deductive Reasoning	Geometry Standards: 1.0
Geometric Proofs: <ul style="list-style-type: none">• Proofs by contradiction• Proof and use of basic theorems involving congruence and similarity• Proof and use of theorems involving parallel lines, quadrilaterals, circles, and triangles• Pythagorean theorem	Geometry Standards: 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 14.0, 15.0
Geometric figures: <ul style="list-style-type: none">• Identify and construct elements of geometric figures• Perimeter, circumference, area, volume, lateral area, surface area of 2-D figures• Volumes and surface areas of 3-D figures• Use measures of sides and of interior and exterior angles to solve problems• Complementary, supplementary, vertical, and exterior angles• Use of angle and side relationships in problems with special right triangles• Chords, secants, tangents, inscribed angles• Inscribed and circumscribed polygons of circles	Geometry Standards: 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 16.0, 21.0, 22.0

<ul style="list-style-type: none"> • Rotations, translations, and reflections 	
<p>Trigonometric Functions:</p> <ul style="list-style-type: none"> • Definitions • Elementary relationships between functions • Solving for an unknown length of a side of a right triangle 	Geometry Standards: 18.0, 9.0, 20.0

22. Course Outline

Option 1: Students will complete the majority of the text book, demonstrate proficiency of the topics show in the table of contents, and take cumulative tests. The students will complete a mid-term and final examination. The students will complete all of the key assignments listed below. The students' Education Specialist will review the students' work on a monthly basis and will grade all tests and exams. Samples of students' work will be kept in the students' portfolios.

Option 2: Students will complete all requirements of PASS Geometry A & B courses. Students will complete periodic written assessment, including but limited to a mid-term and final exam, without outside assistance or use of notes or the text. The students Education Specialist will review the students work on a monthly basis and will grade all tests and exams. Samples of students work will be kept in the students' portfolios.

Option 3: Students will complete all requirements of UCCP's Geometry course. Students will complete periodic written assessments, including by not limited to a mid-term and final exam, without outside assistance or use of notes or the text. The students Education Specialist will review the students work on a monthly basis and will grade all tests and exams. Samples of students work will be kept in the students' portfolios.

In any course of any of the above options, the student will master each topic with sufficient depth and breadth to meet or exceed the California state standards for Geometry.

23. Texts & Supplemental Instructional Materials

Student will choose to use one of the following approved Geometry texts:

- Geometry: Concepts & Applications. Glencoe McGraw-Hill.
- Geometry: Integrations, Applications, Connections. Glencoe McGraw-Hill.
- Geometry. Glencoe McGraw-Hill.
- Discovery Geometry: An Investigative Approach, 3rd Edition. Key Curriculum Press.
- Geometry. McDougal Littell.
- Prentice Hall Mathematics: Geometry. Prentice Hall.

24. Key Assignments

Student must complete these specific assignments:

1. Student will read introduction of each new topic, review examples with their complete solutions, and complete practice of the new topic.
2. Student will complete daily problem sets, including review of previous topics.
3. Student will take cumulative tests.

4. Student will complete periodic written assessments, including but not limited to a mid-term and final exam, without outside assistance or use of notes or the text.
5. Education Specialist will review work on a monthly basis, and written samples will be kept in a portfolio.

25. Instructional Methods and/or Strategies

Instructional methods and/or strategies may include, but are not limited, to the following techniques:

- Workbook exercises
- Hands-on mathematical investigation
- Internet research
- Library research
- Lecture

26. Assessment Methods and/or Tools

Evaluation of performance is based on individual abilities, interests, and talents. Methods by which student progress is assessed will be through a variety and/or combination of methods. The methods available include, but are not limited to:

- a. Monthly review of work by Education Specialist
- b. Portfolios
- c. Parent facilitator and Education Specialist observation
- d. Student demonstrations
- e. Student grades
- f. Student work examples
- g. Written examination
- h. Research projects

C. HONORS COURSES ONLY

Please refer to instructions

27. Indicate how this honors course is different from the standard course.

D. OPTIONAL BACKGROUND INFORMATION

Please refer to instructions

28. Context for Course (optional)

29. History of Course Development (optional)