

Portland Public Schools
Syllabus Template

NCES/eSIS Course Number: 20341, 20342	School: Wilson High School
Subject: Geometry	Grade Level: 9 through 12
Instructor: Debbie McFarlane	Contact information: Room 34 Ph: 503-916-5280 Email: dmcfarl@pps.k12.or.us
	Days of week offered: all Hours offered: 3rd
Type of Credit Earned: Core Credit	
Prerequisites: C or better in Algebra	
Course description (forecast guide): In this course, students study two and three dimensional shapes and their relationships in plane and space. It is a visual as well as analytic subject, integrating spatial and numerical concepts. Students classify and describe shapes in terms of congruence, similarity, and transformations. The course introduces students to different forms of mathematical logic, including inductive and deductive reasoning. Students solve measurement and algebraic problems using properties, proportions, and trigonometric relationships. Algebra 1-2 is reviewed with geometric applications. Students use the software available on the TI-84 calculator and/or Geometer's Sketchpad to deepen their understanding of key ideas. Homework is required in this class.	
Learning objectives: <ul style="list-style-type: none"> • Students can reason inductively and deductively • Students can represent and label geometric objects correctly including points, lines, planes, angles, polygons, circles, arcs, and three dimensional objects. • Students can recognize patterns and make conjectures. • Students can classify geometric figures, measure and calculate areas and volumes. • Students can understand and use transformations both using coordinates and using matrices. • Students can use trigonometric relationships of right triangles to solve problems. • Students can use properties of circles to solve problems. 	
References, text book(s), resources: Discovering Geometry by Michael Serra, Key Curriculum Press Geometer's Sketchpad Software TI-84 Calculator with Cabri Jr	
Assessment/evaluation/grading policy: Grades are based on points earned from homework, quizzes, tests, and projects. Grades are assigned using the following scale: 90 – 100% = A, 80 – 89 % = B, 70 – 79% = C, 55 – 69% = D, below 55% = F	
Student opportunities to meet CIM/CAM requirements: Most students should have completed CIM by the time that they enter this course, but if they have not, they can take the CIM multiple choice test on TESA, complete work samples, and take the problem-solving assessment.	
Additional costs for materials/out of pocket expenses expected for students: It is expected that each student will have a scientific calculator. (Graphing calculator is not mandatory.) TI-84 calculators are available for use in class.	
Behavioral expectations: Come to class prepared and on time. Do not interfere with another student's right to learn. Show respect to all people in the classroom. Students must meet the minimum level of classroom behavior that will ensure a safe and orderly learning environment for the entire class. Students who do not follow classroom rules will receive consequences beginning with teacher conference with student and/or parents and progressing through the referral for disciplinary action by school administrators.	
Safety issues and requirements: Emergency evacuation procedures are posted by the doorway.	
Additional opportunities: Check if appropriate/support requested <input type="checkbox"/> field trips <input type="checkbox"/> work shadows related to curriculum	

- paid or non-paid internships
- project-based learning
- service learning

Effective date of syllabus: 9/5/07

School year: 2007 - 2008

Schedule of topics/units covered (optional): Geometric Art, Introducing Geometric terminology, reasoning in Geometry, constructions, Triangle Properties, Polygon Properties, Circle Properties, Areas of figures, Pythagorean theorem, Volume, similarity, Trigonometry, Transformations and Tessellations.

Student Accommodation(s)¹ and support available: (e.g., tutoring, differentiated instruction):

After school tutoring for individual students is available after school every day that there is not a faculty meeting

This course can be used to meet one of the following graduation requirements. (optional)

Math graduation requirement or elective credit requirement

- 1 Accommodation means an alteration in how a test is presented to or responded to by the person tested; it includes a variety of alterations in presentation format, response format, setting in which the test is taken, timing or scheduling. The alterations do not substantially change level, content, or performance criteria. The changes are made in order to provide a student equal access to learning and equal opportunity to demonstrate what is known. For students with disabilities, accommodations may be stated on the student's individualized education plan (IEP).

