

Course Information Sheet

Course: Prairie State College Math 096-01 - Geometry - 3 Credit/Contact Hours - Spring 2017

IAI Code: None

Delivery Mode: Face-to-face

Meeting Time: MW 1pm-2:15pm

Meeting Place: Room 2625

Instructor: Steve Kifowit, Rm 2305, Ph. (708) 709-3954

Email: skifowit@prairiestate.edu

Web: <http://stevekifowit.com>

Office Hours: MW 10am-12pm, TTh 9:30am-10am, or by appointment

Text: *Elementary Geometry for College Students*, 6th edition (2015), Alexander & Koeberlein

Course Description: This is a course covering the fundamental concepts of geometry. It is intended for students who lack credit in one year of high school geometry or need a review of the subject matter. Emphasis is placed on learning geometric facts as well as the development of deductive reasoning. Topics covered include plane and solid geometry, properties of congruence, similarity, area, perimeter, and volume.

Course Prerequisite: Math 090 (Elementary Algebra) with a C or better, or equivalent.

Course Goals/Objectives:

Every successful Math 096 student should be able to:

- 1.) recognize, classify, and describe basic geometric shapes;
- 2.) use basic geometric formulas to compute perimeter, circumference, area, surface area, and volume;
- 3.) use basic geometric facts and deductive reasoning to draw conclusions and explain relationships among geometric figures; and
- 4.) carry out basic geometric constructions.

Attendance Policy: Regular class attendance is an essential component of successful learning. Students are responsible for prompt attendance and participation in all class meetings. **If you miss class, you will not be allowed to make up any tests, quizzes, or assignments that you may have missed.** All material covered in class is the student's responsibility.

Grading: Your grade will be based on your performance on three 100-point tests, a 150-point final exam, approximately ten 10-point quizzes, and miscellaneous problems and projects (0-25 points). Very roughly, tests count for about 55% of your grade, the final exam counts for about 27%, and quizzes count for about 18%. The grading scale is as follows:

- A --- 90% and above
- B --- 80% - 89%
- C --- 70% - 79%
- D --- 60% - 69%
- F --- below 60%

You may estimate your current grade at any time during the semester by computing the following percentage: $100\% * (\text{Total points accumulated}) / (\text{Total points possible})$. Please feel free to discuss your grade with me at any time during the semester. Throughout the semester, grades will be posted online in D2L.

Homework: Homework problems will be assigned on a daily basis. Your work will not normally be collected, but we will often discuss homework problems in class. If any suggested homework problems are to be submitted

for grading, you will be given advance notice of at least one class period. Keep up to date on your homework! Homework problems will often show up on quizzes and tests.

Quizzes: Be prepared for an in-class, 10-point quiz on **each Wednesday**, unless a test is scheduled. No make-up quizzes will be given. Your lowest quiz score will be dropped at the end of the semester.

Tests/Exams: Test problems will be similar to class examples, quiz problems, and homework problems. In addition to computational problems, tests may include multiple choice, true/false, short answer, and/or writing problems. You must show all work on all tests to receive full credit. **You must work individually on all tests.** No make-up tests will be given. At the end of the semester, your lowest test score will be replaced by two-thirds of your final exam score (if this helps you).

Final Exam: The final exam is comprehensive and will be worth 150 points toward your final grade. The final exam counts for more than 25% of your grade. Please take it seriously! See the lecture pace for the date of the final exam.

Academic Honesty: In a Math class, it is extremely important that the work you present to your instructor is genuinely something that you have produced. Relying heavily on other people and/or inappropriate technology can create a false sense of achievement that ultimately leads to failure when those resources are no longer available. Part of my role as your instructor is to communicate to you what resources are acceptable and appropriate. The use of inappropriate resources is a form of academic dishonesty. In general, the use of any technology or human help that allows students to simply present a problem and have the problem solved for them is prohibited. Please feel free to speak to me if you are not sure whether you are allowed to use a particular resource in doing the work for this class. There are serious consequences for submitting work that is not your own. Possible consequences include a zero score for the assignment, failure of the class, or expulsion from the college. All cases of academic dishonesty will be reported to the dean.

Calculators: A scientific calculator is required for the course. The recommended calculators are the TI-30XS Multiview or the TI-83/84 Graphing Calculator. We will also make use of free computer software such as GeoGebra. We may also use ALEKS assessment and learning software.

Construction Tools: A number of tools for basic geometric constructions and measurements are required for this course. You must have a compass, a straightedge, a protractor, and a ruler with both inches and centimeters.

Phones/Tablets/Laptops: Electronic devices may be used for notetaking and computing during lectures, but they may not be used on in-class tests and quizzes. These devices must be silenced and put away during tests and quizzes. Students in special circumstances who require their phones to be readily available must discuss their situations with the instructor.

Misc. information:

- 1.) **The last day to withdraw from the course is April 13.** For refund information, refer to the spring schedule book. If you wish to withdraw from the course, it is your responsibility to do so. Any student who does not come to class, yet fails to withdraw, will be given the FW grade.
- 2.) You are expected to spend roughly 9 hours per week on coursework - 3 hours in class and 6 hours out of class. If you cannot make this commitment, you may want to reconsider taking this course.
- 3.) The grading scale will be strictly adhered to! Final percentages will be rounded to the nearest whole number.
- 4.) This is a fast-paced course! We will cover much material in little time. You are responsible for thoroughly reading the textbook and keeping up with the assigned material.

Disability Statement: Any student needing to arrange reasonable accommodations for a documented disability (learning, physical, psychological, or other) should contact the Disability Services Office (Room 1192).

Student Veterans Statement: Veterans and those currently serving in the Armed Services may be eligible for various benefits. Information and support are available in the Student Veterans Center (Room 1240). Online information is available at <http://prairiestate.edu/student-services/veterans-services/index.aspx>.

Religious Observance Accommodation: Prairie State College is required to excuse students who need to be absent from class, examinations, study, or work requirements because of their religious beliefs, and provide students with a make-up opportunity, unless to do so would unreasonably burden the institution. Students must notify their instructor well in advance of any absence for religious reasons. If you require special accommodations for observance of a religious holiday, please notify me during the first week of the term.

Course information, including tests, quizzes, and answer keys, can be found at <http://stevekifowit.com/classes/m096.htm>



Lecture Pace

Math 096-01 - Geometry

Week 1	Jan 18	Course information; Sections 1.1, 1.2	Reasoning, Informal geometry
Week 2	Jan 23 & Jan 25	Sections 1.1, 1.2, 1.3	Reasoning, Postulates
Week 3	Jan 30 & Feb 1	Sections 1.4, 1.5, 1.6	Angles, Perpendicular lines, Proof
Week 4	Feb 6 & Feb 8	Sections 1.7, 2.1, 2.2	Proof, Parallel lines
Week 5	Feb 13 & Feb 15	Review, Test 1	
Week 6	Feb 20 & Feb 22	Sections 2.3, 2.4, 2.5	Parallel lines, Angles of triangles and convex polygons
Week 7	Feb 27 & Mar 1	Sections 3.1, 3.2, 3.3	Triangles, CPCTC
Week 8	Mar 6 & Mar 8	Sections 3.4, 4.1, 4.2	Parallelograms and kites
Week 9	Mar 13 & Mar 15	Spring Break — No class	
Week 10	Mar 20 & Mar 22	Review, Test 2	
Week 11	Mar 27 & Mar 29	Sections 4.3, 4.4, 5.2	Rectangles, Rhombuses, Trapezoids, Similar polygons
Week 12	Apr 3 & Apr 5	Sections 5.3, 5.4, 5.5	Similar triangles, Right triangles
Week 13	Apr 10 & Apr 12	Sections 6.1, 6.2, 6.3	Circles
Week 14	Apr 17 & Apr 19	Sections 8.1, 8.2, 8.3	Perimeter and area of polygons
Week 15	Apr 24 & Apr 26	Review, Test 3	
Week 16	May 1 & May 3	Sections 8.4, 8.5, 9.1	Area and circumference of circles, Prisms
Week 17	May 8 & May 10	Sections 9.2, 9.3, 9.4; Review	Pyramids, Cones, Cylinders, Spheres
*****	Wednesday, May 17	Final Exam—1pm-2:50pm	

***** April 13 is the last day to withdraw *****