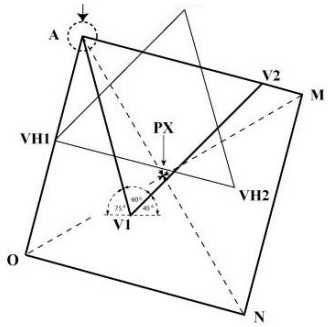
Geometry
Fall 2015
Mathematics 102
Section # 56006

Instructor: Dr. John Heathcote
Office: FEM – 1B (in the math center)
Class Times: MWF 11:00-11:50 am
Classroom: FEM – 3

Phone: 638-3641 ext. 3215

e-mail: john.heathcote@reedleycollege.edu



Office Hours: Monday, 10 AM-10:50 AM, 12:00-12:50 PM
Tuesday, 12-12:50 PM
Wednesday, 10 AM-10:50 AM, 12:00-12:50 PM
Or feel free to stop by or make an appointment

On-Duty in the RC Math Center (FEM-1): Thursday, 12-1 PM
Friday, 10-11 AM

Required Text: Essentials of Geometry for College Students, 2nd Edition, Lial, Brown, Steffensen, and Johnson

Calculators may be used in this class and will be necessary for some calculations. I would recommend a scientific calculator that shows the expression as you type it in. The TI-30XIIS – Advanced 2-Line Calculator -- ($18.99 in the bookstore) is a good, economical choice. (Note: I would **not** recommend the TI-30XA. It will be more difficult to enter more complicated expressions.)

Prerequisite: Math 201 or equivalent

Catalog Description: Angles, parallel lines, congruent and similar triangles, circles, geometric constructions, right triangle trigonometry, application of formulas for perimeters, areas and volumes of geometric figures. Logic and deductive reasoning.

Grading:

50%	Tests
20%	Final Exam
15%	Homework
15%	In-Class Activities and Worksheets

Grading Scale:

90-100%	A
80-89.9%	B
70-79.9%	C
60-69.9%	D
<60%	F

Tests: Approximately four or five tests will be given throughout the term. These tests will usually cover two chapters from the textbook. The tests will be announced ahead of time. If you will not be able to attend class for a test, you need to make prior arrangements to take the test at another time. If you are sick on the day of a test, you must contact the instructor by phone or email before class.

Final Exam: It is important to learn the material in this class and to retain that material. So, a comprehensive final exam will be given during our scheduled exam time (Monday, Dec. 14, 11:00am-12:50pm) during final exam week.

Homework: "Practice makes perfect" is particularly true in mathematics. Therefore, it is critical that you do your homework and put in a good effort in using that homework as a way to learn and practice the material. This homework will be collected and graded.

Late Work: It is important that you stay up to date on the work in this class. So, you need to submit your homework on time. Late homework will not receive full credit.

Worksheets and In-Class Activities: Occasionally in class, there will be a worksheet assigned to follow up on the concepts that we are practicing in the course. These worksheets will be collected and graded. It is important that you work through these worksheets and ask for help as necessary. Also, at times, there will be other in-class activities that are also collected and graded. If you miss one of these activities, you will need to obtain the work from the instructor or off of Blackboard and submit the worksheet by the following class period to receive full credit.

Attendance and participation: It is important that you come to class every day and *participate actively*. Arrive on time. Late students not only miss important material but also distract the rest of the class.

Learning mathematics is not a passive activity. As we progress through topics, students will be given problems in class to practice new skills. During this time, all students are expected to have paper out and to be actively working on these math problems with the rest of the class.

If you miss more than two weeks worth of class sessions, you may be dropped. (However, if you decide to drop the course, it is **your** responsibility to make the drop official in the Administrations and Records Office or else possibly receive a grade of F.)

Accommodations for Students with Disabilities:
If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Please turn off all electronic devices before the start of every class period.
The use of these devices for calls, texts, or other activities is prohibited without previous approval from the instructor.

Add Date:	Friday, September 4th	Last day to add a course
Drop Date:	Friday, October 16th	Last day to drop this course
Holidays:	Monday, September 7th	Labor Day
	Wednesday, November 11th	Veterans' Day
	Thursday-Friday, November 26th and 27th	Thanksgiving Holiday
Final Exam:	Monday, December 14th 11:00 am-12:50 pm	

Course Outline:

Unit A:	Foundations of Geometry, Triangles	Chapters 1-2	Weeks 1-4
Unit B:	Parallel Lines, Polygons, Quadrilaterals	Chapters 3-4	Weeks 5-8
Unit C:	Similar Polygons, Pythagorean Theorem, Circles	Chapters 5-6	Weeks 9-12
Unit D:	Areas of polygons and circles, Solid Geometry	Chapters 7-8	Weeks 12-16
	Review and Final Exam		Weeks 17-18

COURSE OBJECTIVES:

In the process of completing this course, students will:

A. use geometric reasoning to solve problems
B. use geometric reasoning in a proof
C. demonstrate knowledge of triangle properties
D. demonstrate knowledge of similarity and congruence
E. demonstrate the correct usage of formulas for plane geometric figures
F. study geometric definitions and properties and how they relate to geometrical figures.
G. identify the properties and relationships of polygons among their angles, sides, and diagonals.
H. identify the properties and relationships of circles

Academic Dishonesty

Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences.

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another's work, supplying one's work to another, giving or receiving copies of examinations without an instructor's permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

Plagiarism is a specific form of cheating: the use of another's words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing to provide complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or failing to observe computer security systems and software copyrights. Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on a particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.