

SPRING 2010: MATH 119 – IDEAS IN GEOMETRY

General Information.

Instructor: Tom Cooney
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Office: 150 Altgeld Hall
Class Webpages: <http://www.math.uiuc.edu/~tcooney/math119>
<http://www.math.uiuc.edu/Courses/math119>
Lecture Room and Time: 141 Altgeld at 12 noon on MWF
Deadline to Drop: Friday, March 12th
Textbook: *Ideas in Geometry - Course Notes* by Bart Snapp.
Available at campus bookstores for \$??.
Office Hours: MWF at 10am or by appointment.

Grading. There are 500 points to earn in this course:

- 30 points for each homework—we will have 4 homework assignments.
- 50 points for each exam—there will be 4 hour exams.
- 40 points for the take-home exam.
- 140 points for the final (or 120+20 for computer lab).

You can check your grades at <http://compass.uiuc.edu>.

Grades will be based on the following:

	334–349	D+	384–399	C+	434–449	B+	484–500	A+	
0–299	F	317–333	D	367–383	C	417–433	B	467–483	A
	300–316	D–	350–366	C–	400–416	B–	450–466	A–	

Homework. All homework should be neat, easy to read, and stapled (if more than one page). If you do not follow these instructions, I reserve the right to give you **no credit** for your work. Make sure to explain your work and to present it in a logical order. Late homework will be penalised and will not be accepted after either solutions have been handed out or other students have had their homework returned.

You may work in groups on your homework but each of you must hand in your own work, in your own words. **Answers that correspond with those of your classmates verbatim are not acceptable.** I may ask you to explain your answers to me in office hours if they are too similar to those of your classmates.

Exams/Final. We will have four exams, not including the final. They will be announced at least a week in advance and will be spaced evenly throughout the semester. We will discuss their format in class. There will also be a take-home exam near the end of the semester.

Calculators will not be allowed on any tests.

- The final is on Wednesday, May 12th from 7:00–10:00 PM.

Policies. If you have a personal problem (an illness, accident, or family crisis) which prohibits you from participating in any aspect of this course, you need to have the Emergency Dean send me a letter to excuse you from your absences. You can contact the Emergency Dean at (217) 333-0050. Visit <http://www.odos.uiuc.edu/emergency/> for more information. Remember, you miss school, you miss out!

If you require any accommodations in order to take this course, you should contact DRES (www.disability.uiuc.edu). Please notify me and provide suitable documentation within two weeks from the start of the semester.

This course adheres strictly to the University's Student Code Part 4 Policy on Academic Integrity. Cheating of any kind on the homeworks, exams, or the final may result in up to an immediate F in the course, and a letter will be placed in your permanent school file.

Course Overview. This course fulfills a general education requirement for Quant Reasoning I. General education course in mathematics, for students who do not have mathematics as a central part of their studies. The goal is to convey the spirit of mathematical thinking through topics chosen mainly from plane geometry. Prerequisite: Two units of high school algebra; one unit of high school geometry; or equivalent.

Here is a **rough** outline of what we will be covering this semester.

- Chapter 1: Beginnings, Axioms, and Viewpoints.
- Exam 1
- Chapter 2: Topics in Plane Geometry.
- Exam 2
- Chapter 3: Proof by Picture.
- Exam 3
- Chapter 4: Compass and Straight-edge Constructions.
- Exam 4
- Take Home Exam
- Computer lab
- Chapter 5: Transformations.
- Final Exam

A **compass** will be required later in the course. One choice is the Alvin 201, available at the U of I bookstore for about \$6.

And finally... I'm looking forward to getting to know you all. Come talk to me in office hours or email me to make an appointment. I'm here to help! **Have a great semester!**