Course Policies

Prof. Shahed Sharif

Textbook. We will be using *The Four Pillars of Geometry* by John Stillwell. We will cover chapters 1–8, minus a few sections.

Course description. Critical review of the foundations and basic structure of plane and solid Euclidean geometry, non-Euclidean geometries, incidence and affine geometries; convexity and applications.

Course objectives. Upon successful completion of this course, students will know fundamental definitions and results about a number of different geometries, and topics common to all geometries. This includes Euclidean plane geometry, geometry without the parallel postulate, isometries, and hyperbolic geometry. Students will be able to apply this knowledge to solve a variety of geometric problems. Students will also be able to do explicit geometric contructions in Euclidean and hyperbolic geometry.

Course requirements. The grading scheme is as follows:

10%	for homework
50%	for 2 exams
40%	for final exam

Homework is announced weekly and is due the following week. Homework is turned in via Gradescope, which is free. By the end of the first week, you should get an email invitation to Gradescope. If you didn't (for instance if you added the class after the first day), then please contact me so I can add you to Gradescope.

You must also show all work to receive full credit. *You will be graded on your writing!* Correct and clear grammar is essential to a correct proof. Of course, your reasoning must also be completely clear for full credit. Rewriting homework before handing it in is highly advisable. You may type your problem sets, but if you do, please use LaTeX. Homework fulfills this course's writing requirement.

I typically grade a random sample of the assigned problems. However, after homework is handed in, I am happy to go over complete solutions in office hours. Feel free to also e-mail me questions.

Late homework is not accepted, no exceptions. Instead, the lowest two homework scores are dropped.

The **exams** are *tentatively* scheduled for February 25 and April 10. These exams are not cumulative. Make-up exams are not given. Instead, if it would help, the final exam score will replace your lowest midterm exam score.

The **final exam** is scheduled for Monday, May 12, 6:15PM - 8:15PM. It is cumulative.

Office hours. Starting the 2nd week of class, my office hours are M 11–12 in person, W 12:30–1:30 Zoom. Drop by the math conference room, ADM 6242, during the in-person times—you don't have to make an appointment or have any questions. Feel free to bring your homework and a friend and just work on your own if you like. If you have a conflict, send me an email and we'll work out an alternate time. You can also email me any questions that you have. Make sure you include as much relevant detail as possible, and be aware that I may not have the textbook with me when I read your email.

Ethics. You are encouraged to work with others on homework assignments, but the final product should be your own work. In particular, you may not read your classmates' finished assignments until your own is completed! Failure to follow these guidelines is considered plagiarism, and all involved parties will *at a minimum* earn a zero on the relevant assignment and have their actions reported to the Dean of Student Affairs.

ADA policy. Students with disabilities who require reasonable accommodations must be approved for services by providing appropriate and recent documentation to the Office of Disability Support Services (DSS) in Craven Hall 5205 (ph: (760) 750-4905; TTY: (760) 750-4909). Students authorized by DSS to receive reasonable accommodations should meet with me during my office hours in order to ensure confidentiality.