Math 4403: Geometry

TR 10:30–11:45, HSCI 024

Instructor: Jeff Mermin
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Web page http://www.math.okstate.edu/~mermin/4403/

Office Hours TBA or by appointment.

Subject matter This course serves as a rigorous introduction to Euclidean and hyperbolic geometry.

Relationship to other courses Math 3013 (Linear Algebra) is a prerequisite for this class, and Math 3613 (introduction to modern algebra) is recommended. You should be comfortable with the idea, and some techniques, of mathematical proof at the level of Math 3613.

Textbook *Foundations of Geometry* (2$^{\text{nd}}$ edition) by Gerard A. Venema.

Grading Your course grade will be out of 600 points, assigned as follows:

150	Midterm, Thursday, September 24
150	Midterm, Thursday, October 29
150	Final, Tuesday, December 8, 10:00–11:50 AM
150	Homework, quizzes, and classwork

A total score of 540 or above will guarantee you an A; a total score of 480 will guarantee a B, and so on.

Homework, quizzes, and classwork Written homework will be due at the end of class most Tuesdays.

Late policy. Because the course builds on itself, it is important that you not fall behind. Thus, in general, late homework will not be accepted. I will, however, allow you 6 "grace days" in case of illness or other circumstances.

Collaboration. Mathematics is a collaborative venture; you are encouraged to work together with friends and/or classmates on the *written* homework. However, you must **write up your work yourself** and **acknowledge anyone who helped you**.

Quizzes and in-class work. Periodically I will assign questions to be solved in small groups during class. I prefer not to collect and grade these problems, but reserve the right to do so, or to make small adjustments to your homework grade, if circumstances warrant.

Similarly, I prefer to avoid quizzes in this class, but reserve the right to hold them should they become necessary.

Illness policy   If you cannot attend one of the exams due to illness or another emergency, you must provide documentation to arrange a make-up.

If you cannot attend a regular class due to illness or another emergency, no documentation is necessary. If you aren't sure whether or not you're too ill to attend class, please see a doctor. If you need to miss *several* classes, let me know as soon as possible, so that we may plan how to accomodate the situation.

Academic integrity   Don't cheat, or help other students cheat. Please read my "rules for written assignments" at

http://www.math.okstate.edu/∼mermin/3613/airules.pdf.

If, after reading this, you aren't sure whether or not something is allowed, ask me before you try it.

Don't violate academic integrity in any other way, either. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned according to the OSU academic integrity process. If you have further questions, contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, http://academicintegrity.okstate.edu.

Links and attachments   The course syllabus consists of three documents; please read them all.

This course information sheet may be found at

http://www.math.okstate.edu/∼mermin/4403/courseinfo.pdf

The document on academic integrity is available at

http://www.math.okstate.edu/∼mermin/4403/airules.pdf

Finally, the OSU syllabus attachment is on the web at

https://academicaffairs.okstate.edu/sites/default/files/Fall 2015 Syllabus.pdf

This has a lot of important information, including instructions about disability accomodations. Please contact me privately during the first week of the course if you need accommodations as the result of a disability.