### Instructor information:

**Instructor:** Dr. Allison H. Moore
**Office:** MSB 2151
**Office hours:** Monday 11:00 am – 1:00pm
**Email:** amoore@math.ucdavis.edu

### Course information:

MAT 141 - Euclidean Geometry
Subject Area: Mathematics
Term: Winter Quarter, 2017
CRN: 30251, 44401

### Meeting Times:

Lectures: MWF 10:00-10:50am in Art 204
Discussions: Tuesdays 6:10-7:00pm (CRN 30251) and 7:10-8:00pm (CRN 44401) in Olson Hall 141

### Description:

An axiomatic and analytic examination of Euclidean geometry from an advanced point of view. In particular, a discussion of its relation to other geometries. A better title for the course might be "Euclidean versus Non-Euclidean Geometries." Course is designed to serve as preparation for the more rigorous upper division courses. Further information including a generic sample lecture schedule can be found here: `https://www.math.ucdavis.edu/courses/syllabi`. *Please note: the linked schedule is merely a sample; the actual schedule vill vary.*

### Prerequisite:

MAT 021B; (MAT 022A or MAT 067)

### Textbook:

Euclidean and Non-Euclidean Geometries: Development and History, 3rd Edition, by Greenberg.
ISBN: 0716724464

### Course website:

The course website can be found within Canvas. Visit `https://canvas.ucdavis.edu/` Announcements and homework assignments will be posted to Canvas.

### Teaching assistants:

Your TA will help grade exams and quizzes, and can help you out with homework during discussion sections or during their office hours. TA: Yanwen Luo
lwy@math.ucdavis.edu
Office: MSB 2123
TA Office Hours: 3:30-5:30pm on Thursday

### Homework and Quizzes:

Homework is assigned weekly from the textbook. While most of the homework will not be marked, one or two exercises may be graded from each assignment. It is strongly recommended that you keep full written solutions to the assigned exercises to help you study for exams. Homework assignments are generally due in class. A short in-class quiz may sometimes replace a homework assignment. Quizzes may be given during either lectures or during discussion sections. Unlike the midterm exams, quiz dates will not be listed on the syllabus, though they will be announced in class. In-class quizzes will based on the homework assignments, with the idea being that anyone who has done the homework will find the quiz to be easy.

The majority of assignments will contain proof-based exercises. Your solutions should include well-organized, logical explanations, written in standard mathematical notation consistent with the textbook. You will be graded not only on the mathematical content of your solutions, but also on the clarity and completeness of your exposition. Additionally, the following guidelines should be followed:

- Begin your homework assignment as soon as your schedule permits.
- Solutions must be written neatly and legibly (or typed) and must appear in the order in which the corresponding problems are listed on the assignment.
- Your name must be written at the top of every page in your homework.
- Submissions with several pages must be stapled together.
- If your paper is torn from a spiral notebook, all the little shreds should be removed from the edges.

**No late homework will be accepted. No make-up quizzes will be given.**

### Exams:

Midterms will be written during class hours in the usual lecture location.

| | |
|---|---|
| Midterm 1 | Friday, February 3 (in class) |
| Midterm 2 | Friday, March 3 (in class) |
| Final Exam | Tuesday, March 21 at 10:30 am |

Calculators, computing devices, notes and books are prohibited on midterm and final exams. Any exceptional materials to be permitted during midterm exams will be specified and made explicit by the instructor.

Make-up exams will not be given. (If you miss an exam and have a valid, documented excuse, I will use your final exam score to calculate a replacement score for the missed midterm.) An early final will not be given to accommodate travel plans. Do not plan to travel during the final exam period.

### Grades:

Your grade will be determined by the following:

| | | |
|---|---|---|
| Homework and Quizzes | 20% | |
| Midterm 1 | 25% | |
| Midterm 2 | 25% | |
| Final | 30% | cumulative |

**You should expect that your letter grade at the end of the semester will be determined by a curve.** A typical curve might improve your letter grade over the raw numerical score some, but not much. It is **not** unusual for the mean to correspond with a $C$ or a $C^+$.

*The instructor reserves the right to offer challenge problems, bonus problems, or extra-credit assignments.

### Academic integrity:

Students are expected to abide by the UC Davis Code of Academic Conduct (`http://sja.ucdavis.edu/cac.html`) on all assignments and exams.

### Students with disabilities:

Any student needing academic adjustments or accommodations should contact the Student Disability Center to coordinate the request for an accommodation. Please visit `https://sdc.ucdavis.edu` for more information. Faculty must provide accommodations for a student with a disability if the student presents a letter enumerating identified accommodations from the SDC.

### Disclaimer:

The instructor reserves the right to update the expectations outlined in this syllabus. Any modifications will be uploaded to the Canvas site.