

MATH 5233 – College Geometry
Section 01, Spring 2005
MW 7:00 pm - 8:15 pm, 305 Boyd Bldg

Instructor: Dr. Rui Xu
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Office hours: MWF 11:00 am–12:30 pm, M 2:00– 3:30 pm, WF 2:00–4:00 pm or by appointment.

Textbook: Roads to Geometry (3rd Edition), by E. Wallace & S. West

Prerequisite: MATH 3003. This course will rely heavily on logic, theorem-proving and other topics developed in that course. You should not enroll in this course unless you have taken MATH 3003.

Grading Policy:

Assignments:	100pts	Some homework assignments will be graded. (see below)
Test:	300pts	Three tests will be given throughout the semester. They will be announced at least one week in advance.
Final:	150pts	The final exam will be comprehensive.
Grades:		90–100%=A, 80–89%=B, 70–79%=C , 60–69%=D, below 60%=F.

Learning Outcomes:

It is expected that a student completing MATH 5233 will understand

1. Logic, reasoning, and argument patterns. (L2)
2. Axiomatic systems and their properties. (L2)
3. The finite geometries of Young and Fano. (L14, L10)
4. The axiomatic foundation and development of plane geometry. (L14)
5. The properties of non-Euclidean geometries. (L10, L14)
6. The basic properties of Projective Geometry. (L10, L14)

Homework & test policy:

Homework will consist primarily of reading the text and working exercises. On the graded assignments, you may discuss the problems with each other, but each person must write up his or her own solutions and turn them in on time. Late homework is not accepted. Make-up test or homework can only be given for the students who have an authorized University excuse.

Policies:

1. Attendance will be checked daily. You are responsible for all material presented in class, including announcements about course procedures.
2. If you are a person with any kind of disability and anticipate needing any type of accommodation to participate in this class, please let me know and make appropriate arrangements with Disability Services.

Important Dates:

January 10-12	: Drop/Add and late registration
March 3	: Last day to withdraw with a grade of W
March 21-26	: Spring Break
May 2	: Last day of class
May 4	: Final Exam 8:00–10:00 am (Wednesday)