

Syllabus for MATH 467_500, Spring 2005

Instructor: Dr. Ronald G. Douglas, Milner 231
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Office hours: TW 2:00-3:00 PM or by appointment

Class time and place: TR 8:00-9:15 AM, BLOC 120

Topics covered: Rigorous development of Euclidean geometry; Classic non-Euclidean models; Matrix representations of transformations in \mathbb{R}^3 ; Isometries; Transformation and symmetric groups; Similarity and Affine transformations.

Prerequisites: MATH 304 or 222.

Text: Marvin J. Greenberg, Euclidean and Non-Euclidean Geometries, 3rd ed., W. H. Freeman & Co., New York, 1994.

The course will cover most of Chapters 1-4 and parts of Chapters 5-9. In addition to its geometric content, the course will consider the nature of the axiomatic method and the development of mathematics.

Evaluation: 1) Daily Class Participation – 20%; 2) Weekly Homework – 25%; 3) Midterm Test on March 1 – 25%; Final exam, May 9, 1-3 PM – 30%.

Attendance and Make-up: Class attendance is required. Make-ups (or satisfactory equivalents) will be given only in cases authorized under TAMU Regulations. In borderline cases, I will decide whether or not the excuse is authorized. Also, if you miss the test, contact me immediately.

Scholastic Dishonesty: Students may work together and discuss the homework problems with each other. However, copying work done by others is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by University policy. For more information on university policies regarding scholastic dishonesty, see University Student Rules and the Aggie Honor code: "An Aggie does not lie, cheat or steal or tolerate those who do." For more information see the Honor Council Rules and Procedures on the web at <http://www.tamu.edu/aggiehonor>.

Students with Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Services for Students with Disabilities, Koldus 126, 845-1637.