

Math 135
Introduction to Geometry
Fall 2008
Radford University

Course: Math 135, Section 01, Introduction to Geometry
Time: 5:00-6:15 T TH
Room: 228 Whitt Hall
Instructor: William A. Case
Textbook: College Geometry, Musser, Trimpe, and Maurer

Office hours: 9:30-10:50 M
 1:00-1:50 M W F
 9:45-11:30: 3:30-4:30 T TH
(Note: Special office hours can be arranged if needed)

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Grading Policy

Your final average will be determined from in class exams, notebook grades, presentations, and a final exam. Your final average will be determined as follows:

Notebook: 25 %
Group Presentation: 15 %
Test Average: 40 %
Final Exam: 20 %

Course Objective:

This course introduces core concepts and principles of Euclidean geometry, with some attention given to non-Euclidean geometry. Emphases are placed on the use of spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties from both formal and informal perspectives.

Detailed Description of the Course

The courses content includes

- Axiomatic Based Geometry
- Axiomatic Systems
- Parallel and Perpendicular Lines
- Triangles and Similar triangles
- Polygons
- Circles
- Measurement:
 - Area
 - Perimeter
 - Volume
- Trigonometric relationships
- Transformational Geometry
 - Translations
 - Rotations
 - Reflections – Symmetry
- Special Topics
- Fractals
- Tessellations

Notebook

Students will be required to keep a notebook which will include a table of contents, all homework assignments, and all Geometer's Sketch Pad assignments. This notebook will be collected periodically throughout the semester.

Presentations

Students will be required to do one group presentation during the semester. At some point later in the semester, a signup sheet for group assignments will be passed out to the class. Students will be given a list of topics in geometry for their presentation. Presentation will be done on December 1 and December 3.

Attendance policy:

Class attendance is expected and strongly recommended. Attendance will be taken every class meeting by passing an attendance sheet around for students to sign. Keep in mind that your performance on tests could be affected by poor class attendance. Make up exams and quizzes will be given only with the instructor's permission.

Radford University Honor Code:

By accepting admission to Radford University, each student makes a commitment to understand, support, and abide by the University Honor Code without compromise or exception. Violations of this academic integrity will not be tolerated. Refer to your Student Handbook for details. Each of these classes will be conducted in strict observance of the Honor Code.