Meeting Times/Place: TR 5:00-6:15 in VSC Room 204

Course Description/Content:
- “Finite and infinite axiomatic systems, including Euclidean and projective geometries”
- This course builds heavily on proof-writing skills from MATH 235 - Modern Concepts and is very VERBALLY oriented.
- Our primary focus is using logic to deeply understand geometric concepts and learn why physical appearances are sometimes misleading.

Prerequisites and Follow-Ups:
- Prerequisites: MATH 235 - Modern Concepts (math majors need a C or better)

Text: Foundations of Geometry by Venema (2nd ed.)

Classroom behavior:
- I do not permit cell phones nor other technology to be out during class. 5 point deduction!
- I CANNOT PERMIT FOOD OR DRINKS in the classroom due to serious respiratory allergies.
- Plain, unflavored water will be permitted, but no other beverages. (See above.)

Office Hours and Contact:
- My email address is lyn.miller@sru.edu; my office phone number is 724-738-2878.
- I'll typically reply to email or voicemail within 24 hours during the week.
- Drop-in office hours are M-F 2:00-3:00, as well as by “capture” for math majors.
- My office is 200-B VSC inside the Mathematics Department offices.
- Please do not bring food or beverages into my office. You may leave them in the kitchenette.
- My web page is granite.sru.edu/~lmiller. (No “www.” and no D2L except for exam grades)
- Assignments, other information will be posted regularly on my web page, NOT on D2L.

Technology:
- You ARE permitted to use a calculator in this course, but I doubt you’ll ever need to do so.
- We’ll learn the basics of Geometers’ Sketchpad to help with diagrams and conceptual understanding.

Final Exam:
- The Final is Tuesday, May 5, 6:00-8:00. We are required to meet at this time.
- The Final Exam/Project is cumulative; it MAY be a presentation instead of an exam.
Grading:

- **100 points** - Homework Score - computed as a percentage of all assignments (see below)
- **300 points** - Exams #1, #2, and #3 - three in-class exams at 100 points each (see below)
- **100 points** - Cumulative Final Exam/Project

The point total for the entire course is **500 points**.

A = 90 – 100%; B = 80 – 89%; C = 70 – 79%; D = 60 – 69%; F = 0 – 59%.

Homework Policy:

- Homework or alternative quiz/discussion will be collected roughly once a week.
- Point values for different assignments may vary, depending on their length.
- Email, phone, or see me about difficulties in advance so that you are ready to turn in your HW.
- This course is VERY verbal, so write legibly and leave plenty of room for me to comment.
- Solutions must **show your own work**, not just be copied from the text, web, study partners, etc.
- Lack of sufficient original work counts as a zero, including for all study partners involved.
- Solutions (sometimes partial) to original problems will typically be posted on my web site.
- Solutions to textbook problems will NOT be posted to honor copyright, intellectual property laws.
- Some assignments may require dynamic geometry software (Sketchpad) in our computer labs.

Exams:

- You’ll get a Topics List listing the concepts on each exam one week prior to its date.
- There are also old exams on my web page, but they are NOT representative of our content.
- Students say the best way to study is to use the Topics List to make your own study guide.
- For each item listed, review notes, reading, and HW to see what we have said/done about it.
- Copy down precise statements and examples, as well as cautions, on your study guide.
- Begin to prepare as soon as the Topics List comes out; don’t cram at the last minute.
- Exams MAY have take-home components as well, depending on necessary length.
- TENTATIVE time frame: Exam #1: around 2/19; Exam #2: around 3/31; Exam #3: around 4/26.

Attendance and Make-Up Policy:

- Regular and prompt attendance is expected but does NOT count toward your grade.
- You must make a reasonable effort to contact me IMMEDIATELY in case of absence/delay.
- Make-up HW scores may come from a special assignment at the END of the semester.
- Make-up Exams:
  1. These do require a **documented** reason and **meaningful** efforts to contact me in advance.
  2. Separate make-up exams typically are not given; rather, make-up exam scores are determined by using your percentage score on the Final Exam score at the end of the semester to replace the missed score.
- If you are absent, get the notes from a **classmate**. This is YOUR responsibility.
- When you return from an absence, be prepared to hand in any HW that is due on that day.
- **SEEK HELP EARLY AND OFTEN!**