

NEW YORK UNIVERSITY  
THE DEPARTMENT OF TEACHING AND LEARNING  
STEINHARDT SCHOOL OF EDUCATION  
TEACHING OF SECONDARY SCHOOL MATHEMATICS  
Fall 2008

**Course:** E12.2101 Professionalized Subject Matter in Math-Modern Geometry

Instructor: Judith Green

Email: [jag292@nyu.edu](mailto:jag292@nyu.edu)

Phone: 212-998-5194

Location: 25 West 4<sup>th</sup> Street, C-13

Time: Thursday, 4:55 – 6:35pm.

Office Hours: Wednesday 3:00-4:00pm

Thursday 2:00 – 4:00pm or by appointment

Office Location: 239 Greene Street 6<sup>th</sup> Floor, 635-C

**Course Description:** This course will explore Geometry through dynamic geometry software, the Geometer's Sketchpad. It will also focus on proof in several formats and the topics typically covered in a traditional high school Geometry course.

**Objectives:**

- To enhance instruction through the use of technology;
- To explore topics in non-traditional ways;
- To create mathematical constructions using technology;
- To communicate and justify mathematical concepts;

**Course Texts:**

The course will use the following texts available for purchase in the book store or elsewhere:

King, James. (1996) *Geometry through the Circle with the Geometer's Sketchpad...* Key Curriculum Press.

Marchisotto, Peressini, Usiskin, Stanley. (2003) *Mathematics for High School Teachers; An Advanced Perspective*: Pearson Education Inc)

**Requirements:**

Homework will be assigned periodically and should be submitted at the next class session following the assignment.

Students are expected to attend all class sessions and make up any missed assignments.