

**Mathematics 409, Spring 2009 (Section #59445)**  
**Topics in Geometry for Secondary and Middle School Teachers**

**General Information**

**Instructor:** Jeremy Martin (you can call me either “Prof. Martin” or “Jeremy”)

E-mail: [jmartin@math.ku.edu](mailto:jmartin@math.ku.edu) (the best way to contact me)

Office: 541 Snow Hall, (785) 864-7114

Office hours: Monday 1–2, Thursday 11–12, or by appointment

**Meeting times:** Tuesday/Thursday, 1:00 – 1:50 PM, 152 Snow Hall

**Course description:** Math 409 covers selected topics from Euclidean, non-Euclidean, and transformational geometry. The goal of the course is to give breadth to the mathematical background of secondary and middle school teachers. Students enrolled in Math 409 must enroll concurrently in Math 410.

**Prerequisite:** Math 122.

**Website:** The class website is:

<http://www.math.ku.edu/~jmartin/math409/>

Bookmark the website and check it frequently! You are responsible for all information posted on the website, including announcements, homework assignments, and exam information.

**E-mail:** I will periodically send class information (announcements, homework hints, etc.) to your KU e-mail account. You are responsible for checking your e-mail regularly so as to receive this information.

**Textbook:** *Euclid +/-* by Saul Stahl. Available for free from the course website. We will follow the text only loosely, and will use other free online resources as needed.

**Required materials:** You should bring a straightedge and compass (available from the KU or Jayhawk Bookstore) to class every day. In addition, you should purchase and install the student edition of the software *The Geometer's Sketchpad*; this should cost about \$40. To do so, follow the links on the course website.

**Coursework**

**Homework:** Homework will be due every Tuesday at 5:00 PM, starting on **Tuesday, January 27**. *Late homework will not be accepted*. I'll post each assignment on the course website at least a week before the due date. You can submit written work in class on Thursdays, bring it to my office (541 Snow), or leave it in my mailbox in the Math Department office (405 Snow). Sketchpad assignments should be e-mailed to me at [jmartin@math.ku.edu](mailto:jmartin@math.ku.edu). If you submit Sketchpad assignments early, I'll try to respond quickly so as to give you the chance to correct errors before the deadline. The homework assignments are worth 40% of your grade.

**Tests:** There will be a midterm exam, worth 20% of your grade, in class on **Thursday, March 12**. The final exam, worth 40% of your grade, is scheduled for **Wednesday, May 13, 1:30–4:00 PM**.

## Administrative Information

**Makeup work:** If, for some legitimate and unavoidable reason, you are unable to turn in a homework assignment on its due date or to attend the midterm or final exam, you must notify me *in advance* to make appropriate arrangements.

**Approximate time commitment:** This is a 2-credit course, so I would guess that the average student should spend about 4 hours (or more) per week outside of class to get a decent grade.

**Incompletes:** A grade of I is a rare occurrence and is reserved for cases in which a student has completed most of the course work at an acceptable level, but is prevented from completing the course due to *extraordinary* circumstances. If you think an I may be warranted, you must consult me *before* the final exam. Note that a grade of I cannot be made up by taking the course again.

**Drop policy:** Drop periods for Spring 2009 are as follows:

*Period 1* (through 2/5): you can drop a course and erase it from your record

*Period 2* (2/6 through 4/16): you can drop a course and receive a W on your transcript

*Period 3* (after 4/16): dropping is no longer permitted Consult the Registrar's website for complete add/drop information.

**Academic honesty and collaboration:** You are required to abide by all KU policies on academic integrity. Cheating, plagiarism or other academic misconduct will result in a failing grade on the assignment in question, and usually further disciplinary sanctions, possibly including a failing grade in the course.

You are encouraged to collaborate with other students on the homework assignments. However, intellectual honesty requires that each student write up his or her own solutions and acknowledge all collaborators. It is a violation of academic integrity to copy another student's homework, or to let someone else copy yours.

For more information, see the official KU policies on issues involving academic honesty, available online at <http://www2.ku.edu/~unigov/usrr.html#art2sect6>

**Students with disabilities:** The KU Office of Disability Resources (22 Strong Hall; 785-864-2620 (V/TTY); <http://www.disability.ku.edu>) coordinates accommodations and services for all students who are eligible. If you have a disability for which you wish to request accommodations, please contact Disability Resources as soon as possible. Please also contact me privately in regard to your needs in this course.

**Intellectual property:** Course materials prepared by the instructor, together with the content of all lectures and review sessions, are the intellectual property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited. Upon reasonable request, the instructor will usually grant permission to record lectures, on the condition that such recording is used only as a study aid by the student making the recording, and is not modified or distributed in any way.