

# Syllabus

## Math 3110, Summer 2009

**Course Title:** Modern Geometry

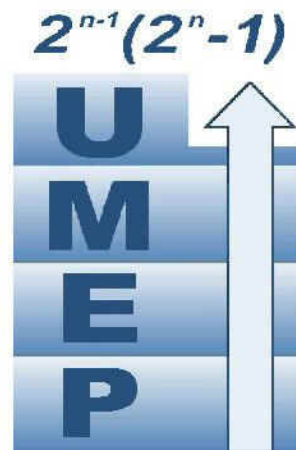
**Credits:** 3 semester

**Prerequisites:** Calculus II, or Conceptual Calculus II

**Textbook:** Euclidean and Transformational Geometry,  
A Deductive Inquiry, Schlomo Libeskind

**Meeting**

**Schedule:** Tuesdays and Thursdays (June 23 – Aug 6), 7:30-10:30 p.m. at your distance delivery site (class originates from USU's main campus in Logan, ENGR 401)



**Instructor:** Eric Rowley

e-mail: [eric.rowley@usu.edu](mailto:eric.rowley@usu.edu)

**Office Hours:** By appointment

**Teaching Assistants:**

We will be fortunate to be assisted by Stephanie Swainston and Erinn Harris. Each participant will be assigned to one of these assistants. Homework should be submitted to your assigned assistant. Administrative questions, homework questions, etc. can also be handled by your assistant.

Stephanie Swainston [Stephanie.A.Swainston@aggiemail.usu.edu](mailto:Stephanie.A.Swainston@aggiemail.usu.edu)

Erinn Harris [Erinn.Harris@aggiemail.usu.edu](mailto:Erinn.Harris@aggiemail.usu.edu)

Fax: (435)797-1822

**Students** (more like colleagues, really):

This course is mostly populated by, but (with approval) not restricted to, public school teachers seeking to upgrade their math-teaching endorsement levels by participation in the UMEP program. Further information about UMEP can be found at [umep.usu.edu](http://umep.usu.edu).

**Course Goals:**

The goal of this course is to transform the participants' knowledge of Geometry from what may be a rudimentary and intuitive understanding to a deeper knowledge through an axiomatic approach to include the appropriate amount of rigor, formal proof, communication, and exploration and problem-solving of non-trivial problems. Participants' will be expected to become proficient in the use of the provided Geometer's Sketchpad program and use it extensively.

**Course Content:**

The bulk of the course content will focus on select topics from the textbook. The course will begin with a brief treatment of Set Theory using materials developed by the instructor. Other content extraneous to the textbook may also be addressed at the instructor's discretion.

**Classroom Procedures:**

Attendance and participation are welcomed, crucial, and *expected*. Comments, questions, interruptions, etc. are encouraged

Much of the out of class communication and course management/administrative handling will be done on BlackBoard Vista. If you need help with any facet of BlackBoard Vista, contact your assistant. Ordinary email, telephone, and fax may also be used to communicate.

**Grading:**

Homework will be assigned and collected periodically. Based on your stature as professionals, it is assumed the assignments will be completed thoroughly, accurately, neatly/organized, and on time. Make arrangements with your TA to upload to BlackBoard, fax, or email your homework. The sum of all homework scores will be scaled to reflect a possible of 200 pts in the calculation of your final grade.

Tests will be given at midterm and at the end of the term to allow you the opportunity to demonstrate your achievement of course objectives. Each will contribute 100 points toward the calculation of the final grade.

Thus, your final grade will be based/justified in equal parts by your combined homework score and your combined test score.

**Americans with Disabilities Act:**

Title II of the Americans with Disabilities Act mandates that all state and local government programs be administered in such manner as to protect qualified individuals with disabilities from discriminatory treatment. Utah State University complies with this policy, and therefore:

If you need accommodations because of special exceptionalities, please meet with Eric during the first week of the semester to make arrangements. Accommodations including alternative format print materials (e.g., larger print, audio, diskette, Braille, etc.) are available through the Disability Resource Center, located in Taggart Student Center room 104, phone number (435)797-2444.