

WEBSTER UNIVERSITY

COURSE SYLLABUS

MTHC 5110.01

Craig Hannick

COURSE NUMBER AND SECTION

INSTRUCTOR

GEOMETRY FOR MIDDLE SCHOOL TEACHERS

TERM: F I \_\_\_\_\_

YEAR: 2005

COURSE TITLE

F II \_\_\_\_\_

SP I \_\_\_\_\_

50 SV205 12:50-4:30 PM

SP II \_\_\_\_\_

SITE ROOM TIME

SU X \_\_\_\_\_

**1. Course Description: (Student focus, rationale, scope, prerequisites)**

This course is an overview of topics of interest to Middle School teachers in Geometry with an emphasis on using Geometer's Sketchpad software to explore ideas and discover Geometry.

**2. Learning Outcomes: (Goals, objectives, course outcomes, etc.)**

Students will gain a deeper appreciation for the subject of Geometry through an emphasis on discovering Geometry by making conjectures and modeling problems using Geometer's Sketchpad software. The students will become proficient with the use of the software.

**3. Schedule of required readings, class preparations and assignments, lectures, discussions, student presentations, and exams:**

WEEK 1: Introduction; Overview of Geometer's Sketchpad; Basic  
6/20-6/22 Constructions; Centers of Triangles

WEEK 2: Triangles; Transformations  
6/27-6/29

WEEK 3: Polygons and Circles  
7/6

WEEK 4: Area and The Pythagorean Theorem  
7/11-7/13

WEEK 5: Similarity  
7/18-7/20

WEEK 6: Other explorations with Geometer's Sketchpad  
7/25-7/27

