

Math 5310 **Seminar in the Teaching of Mathematics**
Butts
Summer 05

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Overview

Schedule: Time: June 2 – July 19 TuTh 1:30 p.m. – 4:30 p.m.

Office hours: 11:00 am. – 12:30 p.m. daily and by appointment. Feel free to call me at home or communicate via e-mail.

Responsibilities/Assessment:

A. Attend class and participate in class discussions.

B. Prepare a list of topics that you consider difficult to teach; topics in which you have a special interest, etc.. They will be discussed in class whenever time permits. Give me your list on June 14

C. Give a mathematical presentation [20 - 30 minutes] on an 'unfamiliar topic' (including an 'unfamiliar' way to approach a familiar topic). Provide a lesson plan. Evaluate the presentations of others. Begins June 14.

D. Lead a discussion, in teams of two, for an entire class period. Prepare an outline/summary to distribute and any other handouts (including articles, etc.). You may give a reading assignment prior to your discussion. Get anything you wish to have duplicated to me 24 hours in advance and requests for equipment one week in advance. Choose topic by June 14. Begins June 21 or June 23.

Possible topics include

- High Stakes Testing
- Art of Questioning
- Standards-based teaching
- Assessment (especially alternate forms of assessment) /Writing in the mathematics classroom
- Using the Internet effectively [as a source of ideas for teaching; for professional development; etc.]
- Using technology in the teaching of mathematics: graphing calculators; CBL; CBR; etc
- Motivating students to learn mathematics

The topic need not be related to mathematics - e.g.

- Inclusion in the classroom
- Effective classroom management
- Teaching At-Risk Students
- Dealing with 'Problem' Students [drugs, alcohol, 'pushed' by parents], etc.

E. Take the Mathematics History Test – due July 7

F. Complete a project that shows evidence of consulting various types of resources. A resource file for a teaching unit, a paper, a game, have been popular choices in the past. More specific ground rules will be given in class. I am open to any proposal that you feel will help you in the classroom next year. - due July 19 or earlier.

Academic Honesty: In this course students will conform to the University rules for academic honesty. For more information see <http://www.utdallas.edu/student/sliffe/dishonesty.html>.

Students with disabilities: Information from this course can be provided to students with disabilities through University services. For more information see <http://www.utdallas.edu/student/sliffe/hcsvc.html>.