



[http://www.utdallas.edu/dept/math\\_ed/](http://www.utdallas.edu/dept/math_ed/)

## FALL 2010 COURSES FOR MATHEMATICS TEACHERS

### **MAT Program - teachers [grades 8 - 12]**

MTHE 5320 Usual and Unusual Problems Using Mathematical Modeling  
Tues. 7:00 pm - 9:45 pm Butts

MATH 5301 Elementary Analysis I  
MW 5:30 pm - 6:45 pm Ozvath

STAT 5351 Probability and Statistics I  
TR 5:30 pm - 6:45 pm Amman

MATH 6311 Abstract Algebra I  
MW 5:30 pm - 6:45 pm

CS 5333 Discrete Structures  
MW 2:30 pm - 3:45 pm

Any 6000 level mathematics course – see adviser.

### **MTHE 5320 USUAL AND UNUSUAL PROBLEMS USING MATHEMATICAL MODELING**

Mathematical modeling is now a strand in most secondary mathematics courses through calculus (including the proposed new fourth-year course in mathematical decision making) – and is the core of current Math Models course. This course in real-world problem solving will examine the construction, use, and analysis of empirical and analytical mathematical models. Emphasis on using appropriate technology with tools such as functions and curve fitting; simulation; matrices, and difference and differential equations. Adapting concepts and problems for classroom use is also a key component of the course. Course assessment will involve investigations and group projects. The TI-84<sup>+</sup> graphics calculator, relevant software, and appropriate Internet sites will be used. There is no textbook for the course - class notes and online resources will be used.

- For more information on courses, see the Course Lookup [Fall 2010] at [www.utdallas.edu](http://www.utdallas.edu)
- Other information about UTD: [www.utdallas.edu](http://www.utdallas.edu) - go to Prospective Student.

If you are not currently a UTD student, apply as soon as possible. An official transcript will be needed. Contact the Science-Mathematics Education Department for application or registration assistance; information about courses: Telephone: 972-883-2496 e-mail: [tbutts@utdallas.edu](mailto:tbutts@utdallas.edu), or [mas063100@utdallas.edu](mailto:mas063100@utdallas.edu) [Mary Ann]