Summer 2011 courses for Mathematics Teachers [8 – 12]

MATH 5305* EUCLIDEAN GEOMETRY FOR TEACHERS
The course will be organized around two main themes: Some Theorems and Applications in "Modern" Euclidean Geometry and Geometric Transformations and their applications. There will be an emphasis on the role of (1) conjecture and proof and (2) proofs using synthetic methods, trigonometrical methods, area methods, coordinate methods, and transformational methods. The Geometer's Sketchpad will be used.

Mon. Wed. Fri. 9:00 am – Noon June 6 – July 15

MTHE 5320 ** USUAL AND UNUSUAL PROBLEMS USING ALGEBRA
With an emphasis on problem solving and motivation, this course should appeal to those who teach Algebra I and/or Algebra II in middle school/high school. Solving problems and adapting them for classroom use, developing relationships between the verbal, visual, and symbolic representations of algebraic concepts, using functions and mathematical models/real-world applications, and the relationship of “school algebra” to “abstract algebra” are the main themes of the course. The TI-84+ graphing calculator [or equivalent], articles from the 2008 NCTM Yearbook on Algebra, and the Internet will be used.

Mon. Wed. Fri. 1:30 pm – 4:30 pm June 6 – July 15 Kisunzu

. Contact the Science-Mathematics Education Department for registration assistance, information about courses, information about the MAT program or courses, etc.. check the program website: http://www.utdallas.edu/scimathed/graduates/mat-me.html, or telephone: 972-883-2496, or e-mail: mas063100@utdallas.edu

*Core course **Elective course in the MAT program.