

MATH 522 Section 01S, 41R, and 71R
BA 244 1 – 4:50 MR
Instructor: Dr. Charles Dorsett
Office: Bin-318
Office telephone: 886-5955
Office hours: 9 – 10 M - R, and by appointment

Textbook: None. The class will be taught using a “modified Texas Method”.

Prerequisites: Graduate standing with background in mathematics, including theorem proving classes, Math 440 and/or consent of the instructor.

Topics to be covered: Introductory point set topology, topological operators, subspaces, continuity, classical separation axioms, connectedness, convergence, covering properties, and product spaces as time permits.

Class Objective: At the end of the class, the successful student will have used the presented theory to solve related problems and have proven theorems as expected in the “Texas Method.”

Grading policy: In the class 85% of the grade will be determined by your classroom participation. During the class you will be given hand-outs containing definitions, problems, and theorems for which you are to provide solutions and proofs. The requirement is that you present your solutions to the problems and proofs of the theorems during class time in a timely fashion. A record of classroom participation will be kept and used to determine the appropriate part of the 85% for each student. In addition, each student will select a topic from the history of topology from the 1890s to now and write a research, non-internet paper to be handed-in and present to the class. Each topic must be different so select the topic quickly and obtain permission to move forward with the paper.

Getting help: Requests from students with disabilities for reasonable accommodations must go through the Academic Support Committee. For more information, contact the Office of Advisement Services, BA 314, or call 886-5133.

Attendance and participation in classroom activities are expected. According to the Student’s Guide Handbook, Policies and Procedures, Conduct, all students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.

Let’s all work hard and have a happy, productive semester.