

Syllabus for MATH 446 – 200 & 500, Fall 2007

Instructor: Dr. Ronald G. Douglas, Milner 231
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Office hours: TW 2:00-3:00 PM or by appointment

Class time and place: MW 4:10-5:25 , BLOC 156

Topics covered: Rigorous construction of the real and complex numbers; topology of metric spaces – compactness and connectedness; Cauchy sequences, completeness and the Baire Category Theorem; continuous mappings; introduction to point set topology.

Prerequisites: MATH 409, junior or senior classification.

Text: Walter Rudin, Principles of Mathematical Analysis, 3rd ed., McGraw Hill, Inc., New York, 1976.

The course will cover all of Chapters 1-4 and possibly some of Chapters 5. The emphasis will be on both a conceptual and rigorous understanding of the concepts and ideas underlying mathematical analysis.

Evaluation: 1) Daily Class Participation – 20%; 2) Weekly Homework – 25%; 3) Midterm Test on October 10 – 25%; Final Exam, December 10, 3:30-5:30 PM – 30%.

For students in the Honors Section (500), there will be additional biweekly written projects and some substitute questions on the two exams.

Attendance and Make-up: Class attendance is required. Make-ups (or satisfactory equivalents) will be given only in cases authorized under TAMU Regulations. In borderline cases, I will decide whether or not the excuse is authorized. Also, if you miss the test, contact me immediately.

Scholastic Dishonesty: Students may work together and discuss the homework problems with each other. However, copying work done by others is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by University policy. For more information on university policies regarding scholastic dishonesty, see University Student Rules and the Aggie Honor code: “An Aggie does not lie, cheat or steal or tolerate those who do.” For more information see the Honor Council Rules and Procedures on the web at <http://www.tamu.edu/aggiehonor>.

Students with Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Services for Students with Disabilities, Koldus 126, 845-1637.