MATH 341  Analysis

INSTRUCTOR: DR. Jie Xiong; Office: Ayres Hall 328; Phone#: x4-4271;

Office hours: M 9:05-9:55 W 2:30-3:20, 3:30-4:00 F 2:30-3:20

TEXT: Introduction to Analysis, by E.D. Gaughan.

EXAMS: 2 midterm exams and 1 comprehensive final.

GRADING: Final exam is counted as two exams. The lowest one of 4 exams will be dropped. The average of three exam grades will determine 90% of your final grade and homework will count for 10%. The following scale will be used: 90-100%=A, 87-89.99%=A-, 83-86.99%=B+, 80-82.99%=B, 77-79.99%=B-, 73-76.99%=C+, 70-72.99%=C, 67-69.99%=C-, 63-66.99%=D+, 60-62.99%=D, 57-59.99%=D-, below 57%=F.

Make-up policy: In case of a genuine reason, you may choose taking a make-up exam or using the score of the final exam for the missed midterm (Missed final exam has to be determined by a make-up).

GAOL and COVERAGE: This course helps students begin to learn what constitutes a proof, and introduces them to the theory of limits of sequences and functions. The core of the course constitutes: Algebra of sets; Functions: one-to-one, onto, etc.; Mathematical induction; The real number system: Algebraic properties, order properties, inf, sup, completeness property; Open/closed sets; Sequences; Cauchy sequences; Bolzano-Weierstrass theorem; Limits of functions; The continuous functions, differentiable functions and important properties of such functions; Riemann integrals and their properties.

We shall cover parts of chapters 1-4, possibly also part of chapter 5. Lecture will be presented providing basic ideas and concepts; examples and some problems will also be presented. Homework will be assigned.

Schedule 11:15AM - 12:05PM MWF A 111

Comprehensive Final Exam: 10:15-12:15, December 8, 2008

Remark: Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific needs. Please contact the Office of Disability Services at 865-974-6087 in 2227 Dunford Hall to coordinate reasonable accommodations for students with documented disabilities.