Syllabus
Math 320 – Real Analysis – Fall 2004

Instructor: William T. Ross
Jepson Hall, Room 215
289 – 8090
Office Hours: MWF 2:30 – 3:30, or by appointment


Homework - There will be a written assignment due every day. You are allowed to consult each other as long as everybody does their share. Presentation and style will count towards the grade. Homework is due by 5:00PM the day it is due and late assignments will not be accepted.

Projects – At the end of each chapter, there are demanding project problems that expand a concept covered in the chapter. These problems are a bit involved and require some planning. As with the homework sets, these projects should be well written.

Exams - There will be three in-class exams and a comprehensive final. The exams will be given on the following dates:

Exam 1: Mon., 9/20
Exam 2: Mon., 10/18
Exam 3: Mon., 11/15
Final: Fri., 12/10, 2 – 5 PM

There are no make-up exams. If you are not able to take an exam when it is scheduled (for whatever reason), 15% (for each exam missed) will be added onto the worth of the final exam.

Grades - Grades will be computed as follows:

Homework 15%
Projects 15%
Exams (15% each) - 45%
Final Exam - 25%

Academic honesty - Students are expected to adhere to the university honor code and must pledge all exams.
Schedule -

M 8/23 – Introduction
W 8/25 – Properties of real numbers
F 8/27 – Properties of real numbers (Project 0.2 due)

M 8/30 – Sequences
W 9/1 – Sequences
F 9/3 – Sequences (Project 1.4 due)

M 9/6 – Limits
W 9/8 – Limits
F 9/10 – Limits (Project 2.4 due)

M 9/13 – Continuity
W 9/15 – Continuity
F 9/17 – Review

M 9/20 – Exam #1
W 9/22 – Topology of the real line
F 9/24 – Topology of the real line

M 9/27 – Topology of the real line (Project 3.3 due)
W 9/29 – Derivatives
F 10/1 – Derivatives

M 10/4 – Mean value theorem
W 10/6 – Mean value theorem
F 10/8 – Inverse function theorem

M 10/11 – Fall Break
W 10/13 – Inverse function theorem (Project 4.1 due)
F 10/15 - Review

M 10/18 – Exam #2
W 10/20 – Integration
F 10/22 – Integration

M 10/25 – Integration
W 10/27 – Integration
F 10/29 – Integration

M 11/1 – Integration (Project 5.2 due)
W 11/3 – Series
F 11/5 – Series

M 11/8 – Series
W 11/10 – Series (Project 6.2 due)
F 11/12 – Review

M 11/15 – Exam #3
W 11/17 – Sequences and series of functions
F 11/19 – Sequences and series of functions

M 11/22 – Sequences and series of functions (Project 7.2 due)
W 11/24 – Thanksgiving
F 11/26 – Thanksgiving

M 11/29 – Review for final exam
W 12/1 – Review for final exam
F 12/3 – Last day of classes/Review for final exam

F 12/10 (2 – 5 PM) – Final exam