Principles of Analysis
(MATH 3083)
Fall 2004

Professor: Paul Bailey

Office: WIL 228

Office Hours: MWF 10 am to 11 am, 2 pm to 3 pm; TR 1 pm to 2 pm

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Book: *Elementary Analysis: The Theory of Calculus*, by Kenneth A. Ross

Grading

A:	85% to 100%	**Homework:**	20%
B:	70% to 84%	**Quizzes:**	20%
C:	50% to 69%	**Midterm:**	20%
D:	30% to 49%	**Final:**	40%
F:	0% to 29%		

Homework exercises will be assigned daily, to be attempted before the next class. The purpose of these exercises is practice; they will not be collected or graded.

Homework problem sets will be assigned periodically, to be due in one week. The write up of each problem should state both the problem and then the solution. It should be neat and legible, using words in complete sentences, where appropriate.

You are welcome to work with each other on problem sets if you follow these rules: 1) anyone you discuss a problem with should be mentioned in your solution, and the originator of any idea should be so credited, and 2) you must write your solution in your *own words* (NO COPYING). Any violation of rules 1) and 2) is academic dishonesty.

Quizzes will be given weekly, on Friday. The midterm examination will be given in mid-October. The final examination is scheduled for Wednesday, December 15, at 8:00 am.

Approximate Syllabus

Week	Beginning	Topic	Sections
Week 1	Aug 30	Axiomatic Numbers	1, 2, 3, 4, 5
Week 2	Sep 6	Constructed Numbers	6
Week 3	Sep 13	Sequences	7, 8, 9
Week 4	Sep 20	Subsequences	10, 11, 12
Week 5	Sep 27	Compactness in Metric Spaces	13
Week 6	Oct 4	Series	14, 15
Week 7	Oct 11	Cardinality	16
Week 8	Oct 18	Continuity	17, 18, 19
Week 9	Oct 25	Continuity in Metric Spaces	20, 21, 22
Week 10	Nov 1	Power Series	23, 24
Week 11	Nov 8	Power Series	25, 26
Week 12	Nov 15	Differentiation	27, 28
Week 13	Nov 22	Differentiation	29, 31
Week 14	Nov 29	Integration	32, 33
Week 15	Dec 6	Integration	34