

Fall 2003 Math 210.01: Introduction to Proof Techniques
MWF 10:30-11:20, Olin 221

Instructor: Lew Ludwig **Office:** Olin 204
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Office Hours: 9:30-10:20 MWF, **Homepage:** www.denison.edu/~ludwigl
9:30-10:20 Tu
or by appointment

Text: *Foundations of Higher Mathematics* 3rd edition by Fletcher and Patty

Syllabus: This course will tentatively cover the major concepts of the following chapters in the text:

- Ch. 1 The Logic and Language of Proofs
- Ch. 2 Sets
- Ch. 3 Mathematical Induction
- Ch. 4 Relations and Orders
- Ch. 5 Functions
- Ch. 6 Combinatorial Proofs
- Ch. 7 Countable and Uncountable Sets

Examinations: There will be three tests (50 points each), 10 quizzes (25 points each), and the research project (150 points). The tentative dates are below.

Friday:		Friday:	
Sep. 5	Quiz 1	Oct. 3	Test 1
Sep. 12	Quiz 2	Oct. 31	Test 2
Sep. 19	Quiz 3	Dec. 5	Test 3
Sep. 26	Quiz 4		
Oct. 10	Quiz 5		
Oct. 17	Quiz 6		
Oct. 24	Quiz 7		
Nov. 7	Quiz 8		
Nov. 14	Quiz 9		
Nov. 21	Quiz 10		

FINAL: 9:00-11:00 Tuesday December 16

Grades: Final grades will be calculated based on performance in the following components of the course.

Component	Points	
Quizzes (best 8 of 10)	200	100-93% A, 92.9-90% A-, 89.9-87% B+,
Tests (all)	150	86.9-83% B, 82.9-80%B-, 79.9-77% C+,
Research Project	150	76.9-73% C, 72.9-70% C-, 69.9-67% D+,
Total	500	66.9-63% D, 62.9-60% D-, 59.9-0% F

Attendance: Regular attendance is expected. **No late work** will be accepted. **No make-up** exams will be given.

Disability Accommodation: Any student who feels he or she may need an accommodation based on impact of a disability should contact me privately as soon as possible to discuss your specific needs. I rely on the documented files at the Office of Academic Support in 104 Doane to verify the need.

Important Dates:

September 26, 2003	Last day to drop a course for upperclassmen
October 31, 2003	Last day to drop a course for freshmen
October 3-4, 2003	Thirtieth Annual Pi Mu Epsilon Student Conference, Miami University
October 17-18, 200	Ohio Northern University, Ada, OH
October 25, 2003	First Midstates Conference for Undergraduate Research in Computer Science and Mathematics
November 1, 2003	Undergraduate Research Conference, University of Dayton