

Math 4985/7985 Discrete Math for P-8 Teachers Spring 2005

Instructor: Dr. David Leach
Location: 307 Boyd
Time: Thursday 5:30-8:00
Office: 317 Boyd
Office Hours: TBA
Website: <http://www.westga.edu/~cleach>
Phone: (678)-839-4127
Textbook: *Discrete Mathematics for Teachers*, by Wheeler and Brawner.

Learning Outcomes: Upon successful completion of the course, the student will demonstrate

1. An understanding of truth tables, formal logic, and their application to problem solving and determining the validity of arguments.
2. An understanding of sets, function, and sequences, and their applications.
3. A knowledge of the basic concepts and theorems of graph theory and its applications.
4. A knowledge of the fundamental principles of counting, including combinations, permutations, and their applications to probability.
5. (7985 only) An basic understanding of the principle of mathematical induction and proofs in discrete mathematics.

Evaluation: We will have two tests, a midterm, a project, and a final exam. The two tests will be approximately one hour to one hour and fifteen minutes in length.

Undergraduate Grading

Test 1	75
Midterm	100
Test 2	75
Project	70
Final Exam	100
Total	420

Graduate Grading

Test 1	75
Midterm	100
Test 2	75
Project	100
Final Exam	100
Total	450

A (378-420), B (336-377), C (294-335), D (252-293), F (0-251),
A (405-450), B (360-404), C (315-359),
D (270-314), F (0-269).

Final Exam: The final exam is on Thursday May 5, 5:30-7:30 PM. It will be comprehensive, but it will focus mainly on the material from the second half of the semester.

Project: The project is worth 70 or 100 points, and will consist of several components that will be due at various times during the semester. See the project handout for details.

Attendance: You are expected to attend every class. Makeup tests will only be given if you have documentation of an excused absence. Any Makeups must be taken before the next class meeting.

Important Dates:

Last Day to Drop: January 12
Last Day to Withdraw: March 3
Spring Break: March 21-25
Final Exam: Thursday May 5, 5:30-7:30 PM