Course Outline — SPRING 2006

MATH 412: INTRODUCTION TO GRAPH THEORY

Section X13: 12:00-12:50 pm MWF, Altgeld Hall 243

Web page: http://www.math.uiuc.edu/~jobal

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office hours: MWF 1:30-2:30pm.
Final Exam: 7:00-10:00 PM, Tuesday, May 9

TEXT: Introduction to Graph Theory, D. West (Prentice Hall), 2-nd ed., Chapters 1-7.

This is a serious introduction about properties and applications of graphs. The concepts and theories of paths, circuits (including Euler and Hamiltonian), network flows, coloring, planarity and trees are studied deeply.

REQUIREMENTS:
There are 4 midterms and 6 homework assignments.
Each midterm is for 100 points, and the best 3 are counted.
The final is for 200 points.
There are (about) 6 popquizes, the best 5 is counted, a total of 50 points.
The best 5 homework is counted, and from each homework out of the 6 exercises, the best 5 is counted (a total of 100 points). For students taking for 4 credits, ALL the HOMEWORK is a MUST!
For class ACTIVITY, (−20 − +30) points will be assigned.

The total score is 680 points, the grading is

The midterm exams are evening exams, and instead some classes will be cancelled. The dates of the midterms are decided on the second week of classes.

RESOURCES: Electronic mail is a medium for announcements and questions. Collaborative study sessions are offered before tests to aid students in understanding the material and solving problems.

PREREQUISITES: There are no official prerequisites, but students will be best prepared if they have encountered logical reasoning, induction, and equivalence relations. Basics of linear algebra and graph theory are assumed to be known.