Course Syllabus for Math 181 D2, Spring 2009
A Mathematical World

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Office Hours: Tu, Th 4-5pm or by appointment at 245 Illini Hall

Text and Course Description: “For All Practical Purposes: Mathematical Literacy In Today’s World”, 7th ed., W.H. Freeman and Co. Introduction to selected areas of mathematical sciences through application to modeling and solution of problems involving networks, circuits, trees, linear programming, random samples, regression, probability, inference, voting systems, game theory, symmetry and tilings, geometric growth, comparison of algorithms, codes, and data management.

Prerequisite: Three years of high school mathematics, including two years of algebra and one year of geometry.

Time and Place: 11:00-11:50am, MWF, 345 Altgeld Hall.

Class Attendance: Attendance is expected.

Homework and/or Group Projects: Homework will be assigned every week and will be due Wednesday of each week. All homeworks will be collected at the start of lecture the day it is due. There will be no credit for late homework. We may also have some group projects over the semester. In case of a group project, there should be participation from everyone in the class.

Quizzes: A short quiz would be given every Friday at the start/end of the class and the lowest quiz score dropped at the end of the semester.

Exams: There will be three midterms during the class hour. The dates are on Fridays, February 20, March 20, and April 24.

Final Exam: The final exam is on Tuesday, May 12, 7:00-10:00 PM

Grading Policy: Weekly Homeworks 10%, Quizzes 15%, Three Exams 15% each, Final exam 30%.

Chapters and Topics: Chapter 1: Urban Services, Chapter 2: Business Efficiency, Chapter 9: Social Choice, Chapter 13: Fair Division, Chapter 14: Apportionment...and few others