Mathematics 405: Introduction to Combinatorics
Spring Semester 1997

Computing Center and Mathematics Building, Room 328
MWF 12:50 – 1:40

Text: <u>Combinatorics: Topics, Techniques, Algorithms,</u> by Peter J. Cummins,
Cambridge University Press, 1994.

Instructor: Professor S. Liedahl, CCMB 300A, 631-8698
Office Hours: MWF 9 – 10, and by appointment

<u>Exam Schedule</u>
Exam I, Friday, February 14
Exam II, Wednesday, March 26
Final, Monday, May 5

<u>Grades</u>
Weekly quizzes: 50 points total
Weekly homework: 50 points total
Exams I and II: 100 points each
Final: 150 points

Quizzes will be scored out of 10 points, homework assignments out of 20, and
a letter grade will be given for each exam. The course grade will be based on
the sum of these scores. Students may work in groups on homework
assignments.

<u>Topics</u>
We will follow the basic chapters on counting, partitions and permutations,
recurrence relations (including Fibonacci numbers and Catalan numbers), and
graph theory. In addition, we will give an expanded introduction to the topics of
finite fields, finite geometries, and error–correcting codes.