

Math 2060 Spring Term 2003-2004 (04-2)

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| <u>Grading:</u> "Weekly" Homework (Wednesdays) | 25 %   |
| Midterm Exam (Wednesday Feb. 25, 2004)         | 25 %   |
| Final Exam (to be scheduled)                   | 50 % + |

Text: A Course in Combinatorics, Second Edition, J. H. van Lint &  
R. M. Wilson, Cambridge University Press, 2001, ISBN 0-521-  
00601-5

Topics:

Chapter 5: Systems of distinct representatives  
Chapter 6: Dilworth's theorem and extremal set theory  
Chapter 10: The principle of inclusion and exclusion; . . .  
Chapter 11: Permanents  
Chapter 12: The Van der Waerden conjecture  
Chapter 13: Elementary counting; Stirling numbers  
Chapter 17: Latin squares  
Chapter 18: Hadamard matrices, Reed-Muller Codes  
Chapter 19: Designs  
Chapter 22: Orthogonal Latin squares  
(As time permits, additional topics will be covered.)

Presentation Order: Chapter 5, Chapter 17, Chapter 22, . . .