

## DEPARTMENT OF MATHEMATICS SYLLABUS

Course # & Name: MAT 145 "Combinatorics"

Recommended Text(s) & Price: Discrete Mathematics, 1<sup>st</sup> Edition, Lovasz, Pelikan, and Vesztergombi  
ISBN-10: 0387955852 (\$40)

Prepared by: Kuperberg/Mulase      UPC Approval Date: Spring 2003

Lecture(s)	Sections	Comments/Topics
5	Chapter 2; Combinatoric Tools	
4	Chapter 3; Binomial Coefficients	
2	Chapter 4; Fibonacci Numbers	
Approx. 3 or more	Chapter 7; Graphs	
Approx. 2 or more	Chapter 8; Trees	
2	Chapter 9; Optimization	
2	Chapter 10; Matchings	
Approx. 2 or more	Chapter 11; Combinatorics in Geometry	
2	Chapter 12; Euler's Formula	

### Additional Notes:

This syllabus is subject to change after initial use.