

Summer II 2007

**MTH U115 APPLICATIONS IN ALGEBRA  
SYLLABUS**

- 7.1 Sets
- 7.2 Venn Diagrams
- 7.3 Introduction to Probability
- 7.4 Basic Concepts of Probability
- 8.1 Multiplication Principle & Permutations
- 8.2 Combinations
- 8.3 Probability Applications of Counting Principles
- 2.3 Addition & Subtraction of Matrices
- 2.4 Matrix Multiplication
- 2.4 Organizing & Using Data in Matrices
  
- 2.5 Matrix Inverses (2x2)
- 2.5 Using Matrix Inverses to Solve Systems of Equations  
Cryptography
- 10.1 Markov Chains
  - Graphing Linear Equations
  - Point of Intersection (Elimination & Substitution Methods)
- 3.1 Systems of Inequalities
- 3.2 Solving Linear Programming Problems
- 3.3 Applications of Linear Programming

**Important Dates**

Wednesday 7/4	July 4 - no classes
Friday 7/13	Last day to drop class without a ``W" grade
Wednesday 7/18	Last day to file a final exam conflict form
Friday 8/3	Last day to drop class with a ``W" grade
Thursday 8/16	Last day of classes
Monday 8/20	Final Exam (8am )