

**Spring 2006 MTH U115 APPLICATIONS IN ALGEBRA  
SYLLABUS**

**Section    Topic**

- 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

**MIDTERM EXAM (Tentative Date – February 27)**

- 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**

- Monday 1/16 Martin Luther King's Birthday – No School
- Monday 1/23 Last day to file a final exam conflict form.
- Monday 2/20 Presidents' Day – No School
- Monday – Friday 3/6 – 3/10 – Spring Break
- Friday 3/31 Last day to drop a Spring class.
- Monday 4/17 Patriots' Day – No School
- Wednesday 4/19 Last Day of Classes
- Thursday 4/20 Reading Day
- Thursday 4/27 Final Exam 3:30 - 5:30 PM