

**Spring 2007 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 23)

- 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

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| Monday 1/15 | Martin Luther King Jr.'s Birthday - no classes |
| Monday 1/22 | Last day to file a final exam conflict form |
| Friday 1/26 | Last day to drop a Spring class without a "W" grade |
| Monday 2/19 | Presidents' Day, no classes |
| Friday 2/23 | Tentative date for midterm exam |
| Saturday 3/23 | Spring break begins |
| Monday 3/12 | Spring classes resume |
| Friday 3/30 | Last day to drop a Spring class with a "W" grade |
| Monday 4/16 | Patriots' Day, no classes |
| Wednesday 4/18 | Last day of classes |
| Thursday 4/19 | Reading Day |
| Friday 4/27 | Final Exam 3:30 PM - 5:30 PM |