

**Summer I 2007 MTH U115 APPLICATIONS IN ALGEBRA  
SYLLABUS**

<b>Section</b>	<b>Topic</b>
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
<b>MIDTERM EXAM (Tentative Date – May 31)</b>	
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 5/28 - Memorial Day  
Friday 6/8 - Last Day to Drop  
Thursday 6/21 - Last Day of Class  
Monday 6/25 8:00 AM - Final Exam