Math160 Syllabus Lowman Summer 2010

Note, the weeks that topics will be covered are approximate and may be adjusted throughout the semester.

Week	Text Sections	Topics
1	Intro, 2.1	
	2.1, 2.2	Solving Systems of Linear Equations
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1	None	MLK Holiday = No Classes
	2.3, 2.4	Operations on Matrices, Inverse of a Matrix
	2.4, 2.5	Guass-Jordan Method of determining Inverse
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	2.6	Input-Output Analysis
	2.6, 3.1	Linear Programming Introduction
2	3.1, 3.2	Linear Programming Problem Solution
	3.2, 3.3	Applied Linear Programming Problems
	3.3, 5.1	Sets and Counting
3	5.1, 5.2	Sets and Counting, Further Counting Techniques

3	5.1-5.3	Venn Diagrams
	5.4	Multiplication Principle
	5.5	Factorials, Permutations, and Combinations
4	5.6	Mixed Counting Problems
	5.7	Binomial Theorem and Applications
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4	5.8	Partitions and Multinomial Coefficients
	6.1, 6.2	Introduction to Probability
	6.3	Probability Assignments and Distribution Construction
5	6.4	Calculating Probabilities of Events
	6.5	Conditional Probability and Independent Events

	6.6	Tree Diagrams
5	6.6, 6.7	Bayes' Theorem
	6.7	more Bayes'
	7.1	Visual Representation of Data
6	7.1, 7.2	Frequency and Probability Distributions
	Review	CH 5 and 6 Review
	Exam	MIDTERM 1 on CH 2, 3, 5 and 6

Midterm #2 will be given on tba

6	7.2	Frequency and Probability Distributions
	7.3	Binomial Trials
	7.4	Mean and Expected Value
7	7.4, 7.5	Variance and Standard Deviation
	7.5, 7.6	Variance and Standard Deviation, Normal Distribution
	7.6, 7.7	Normal Distribution and Applications
7	7.6, 7.7	Applications of Normal Distribution
	8.1	The Transition Matrix and Markov Chains
	8.2, 8.3	Regular Stochastic Matrices
8	8.3	Absorbing Stochastic Matrices
	Review	Review for Final Exam
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8	Final Exam	Final on Friday August 6, 8-8:50am in classroom