

Math160 Syllabus Lowman Spring 2010

Note, exams will be given on the dates given below. The dates given for topics are approximate and may be adjusted throughout the semester.

Week	Date	Text Sections	Topics
1	1/11	Intro, 2.1	
	1/13	2.1, 2.2	Solving Systems of Linear Equations
	1/15	2.2	Solving Systems of Linear Equations
2	1/18	None	MLK Holiday = No Classes
	1/20	2.3, 2.4	Operations on Matrices, Inverse of a Matrix
	1/22	2.4, 2.5	Guass-Jordan Method of determining Inverse
3	1/25	2.5	Guass-Jordan Method of determining Inverse
	1/27	2.6	Input-Output Analysis
	1/29	2.6, 3.1	Linear Programming Introduction
4	2/1	3.1, 3.2	Linear Programming Problem Solution
	2/3	3.2, 3.3	Applied Linear Programming Problems
	2/5	3.3, 5.1	Sets and Counting
5	2/8	5.1, 5.2	Sets and Counting, Further Counting Techniques
	2/10	Review	Ch 2 and 3 Review
	2/12	Exam	MIDTERM 1

Midterm #1 will be at lecture time in Rooms TBA on Friday, Feb 12th

6	2/15	5.1-5.3	Venn Diagrams
	2/17	5.4	Multiplication Principle
	2/19	5.5	Factorials, Permutations, and Combinations
7	2/22	5.6	Mixed Counting Problems
	2/24	5.7	Binomial Theorem and Applications
	2/26	5.7	Binomial Theorem and Applications
8	3/1	5.8	Partitions and Multinomial Coefficients
	3/3	6.1, 6.2	Introduction to Probability
	3/5	6.3	Probability Assignments and Distribution Construction

9	3/8	6.4	Calculating Probabilities of Events
	3/10	6.5	Conditional Probability and Independent Events
	3/12	6.6	Tree Diagrams
10	3/15	6.6, 6.7	Bayes' Theorem
	3/17	6.7	more Bayes'
	3/19	7.1	Visual Representation of Data
11	3/29	7.1, 7.2	Frequency and Probability Distributions
	3/31	Review	CH 5 and 6 Review
	4/2	Exam	MIDTERM 2 on CH 5 and 6

Midterm #2 will be given on April 2nd at regular class time, rooms TBA

12	4/5	7.2	Frequency and Probability Distributions
	4/7	7.3	Binomial Trials
	4/9	7.4	Mean and Expected Value
13	4/12	7.4, 7.5	Variance and Standard Deviation
	4/14	7.5, 7.6	Variance and Standard Deviation, Normal Distribution
	4/16	7.6, 7.7	Normal Distribution and Applications
14	4/19	7.6, 7.7	Applications of Normal Distribution
	4/21	8.1	The Transition Matrix and Markov Chains
	4/23	8.2, 8.3	Regular Stochastic Matrices
15	4/26	8.3	Absorbing Stochastic Matrices
	4/28	Review	Review for Final Exam
	4/30	Review	Review for Final Exam
16	May 6 th	Final Exam	Final on THURS MAY 6 th at 6-8pm