MATH 333- SPRING 2011

Lecture	Section & Topic		Homework Assignments	
1	1.1- 1.4	Role of Statistics		none
2	6.1-6.4	Descriptive statistics: stem-and-leaf, histograms, mean, median, variance and standard deviation, boxplots		3 (also construct a box plot for this data), 8, 11, 16, 56
3	2.1- 2.2	Probability: sample space, events, interpretations of probability		30, 35, 42, 45, 47a, 54, 59, 63
4	2.3- 2.4	Addition rules and Conditional probability		68, 72, 76, 81, 84
5	2.5- 2.6	Multiplication rules, independence		94, 96, 97, 103, 107, 115
6	2.7	Bayes' theorem		116, 120, 122, 144, 148, 154, 157
7	3.1- 3.3	Discrete random variables: probability mass function, Cumulative distribution function		10, 16, 21, 26, 31, 36, 141, 145
8	3.4- 3.5	Mean and variance of discrete distribution, uniform distribution		42, 48, 54 (also construct a c.d.f. for this distrubtion), 119
9	3.6- 3.7	Binomial Random Variables, Geometric distribution		71, 73, 76, 79, 85
10	L	REVIEW FOR EXAM #1		STUDY FOR EXAM #1
	L	MIDTERM EXAM I: WEDNESDAY ~ FEBRUARY 16, 2011		
11	3.9	Poisson random variables		110, 115, 118, 134
12	4.1-4.3	Continuous random variables: pdf and cdf		5, 8, 12, 15, 16
13	4.4- 4.5	Mean and Variance, Expected values, Uniform Distribution		27, 30, 36, 38
14	4.8	Exponential Distribution		81, 84, 90, 92 (a,b,c,d)
15	4.6	Normal distribution		41, 46abc, 54, 56, 60
16	4.7	Normal approximations		68, 72
17	7.1-7.2	Distribution of the sample mean, the central limit theorem		3, 5, 7,9 (error in book, let stdev=10.5), 10

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18	L	REVIEW FOR EXAM #2	STUDY FOR EXAM #2		
	MIDTERM EXAM II: WEDNESDAY ~ MARCH 23, 2011				
19	L	(3/28) LAST DAY TO WITHDRAW FROM THIS COURSE			
	8.1-8.3	Confidence interval on the mean of a Normal distribution	8, 14, 19ab		
20	8.1-8.3	The t-Distribution	24, 25, 34b		
21	8.4- 8.6	Confidence intervals on the variance, standard deviation, and population proportion	42, 46ac, 48, 52ab		
22	9.1- 9.2	Hypothesis Testing Basics; Tests on the mean of a Normal distribution (rejection region approach only)	30, 39a, 38a, 42a, 43a		
23	9.1- 9.2	Tests of hypothesis on the mean of a normal dist.: one- sided and two-sided hypotheses, P-values	38abc, 42abc, 43abc		
24	9.1 & 9.3	Type I and II error, Small sample tests on the mean	36, 39abc, 37ab, 44, 50a, 52a (do not find a p-value), 107		
25	9.4- 9.5	Tests on the variance and standard deviation, Test on a population proportion	64, 73, 74a, 76, 80, 82a, 84		
26	10.1-10.2	Tests on the difference in the means of two Normal distributions	5ab, 6ab, 32, 35ab		
	10.4	Paired t-test	5ab, 6ab, 32, 35ab		
27	L	REVIEW FOR FINAL EXAM	STUDY FOR FINAL EXAM		
	L	TUE MAY 3 CLASSES FOLLOW A FRIDAY SCHEDULE			
	L	5/4 READING DAY			
Finals	FINAL EXAM WEEK: MAY 5-11, 2011				