

STAT 244 PROPOSED COURSE SYLLABUS

Catalog Description: Summarizing data, including distributions, change and growth, relationships. Basics of survey design and experimental design. Inferential statistics, including confidence intervals and hypothesis testing. Credit may not be granted for both STAT 107 and STAT 244. Prerequisite: MATH 120.

Textbook: Introduction to the Practice of Statistics, 8th Edition, Moore, McCabe, Craig

Course Outline (timeline is only approximate):

Week 1	4.1	Randomness
	4.2	Probability Models
Week 2	4.5	General Probability Rules
	4.3	Random Variables
Week 3	1.4	Density Curves and Normal Distribution
	4.4	Means and Variances of Random Variables
Week 4		catch up, review, first exam
Week 5	1.2	Displaying Distributions with Graphs
	1.3	Describing Distributions with Numbers
	3.2	Design of Experiments
Week 6	5.1	Sampling Distribution of a Sample Mean
	5.2	Sampling Distributions for Counts and Proportions
Week 7	6.1	Estimating with Confidence
	6.2	Tests of Significance
Week 8		catch up, review, second exam
Week 9	6.3	Use and Abuse of Tests
	6.4	Power and Inference as a Decision
Week 10	7.1	Inference for the Mean of a Population
	7.2	Comparing Two Means
Week 11	8.1	Inference for a Single Proportion
	8.2	Comparing Two Proportions
Week 12		catch up, review, third exam
Week 13	2.2	Scatterplots
	2.3	Correlation
	2.4	Least Squares Regression
	10.1	Simple Linear Regression
	10.2	More Detail about Simple Linear Regression
Week 14	12.1	Inference for One-Way Analysis of Variance
	12.2	Comparing the Means (time permitting)
Week 15		catch up, review