

STAT 215 Schedule

Date	Lecture Topics	Textbook Sections	Lab Modules	Lab Quizzes
8/25	Sampling	1.1	Variable Types	
8/27	Summary Statistics Graphical Summaries	1.2, 1.3	Calculations	
9/1	Probability, Basic Ideas Counting Methods	2.1, 2.2	Histograms	1.1, 1.2, 1.3
9/3	Conditional Probability and Independence	2.3	Moments	Calculations
9/8	Random Variables	2.4	Probability Definitions, Probability Laws	2.1, 2.2, 2.3 Quantiles
9/10	Linear Functions of Random Variables	2.5	Expected Values	
9/15	The Bernoulli Distribution The Binomial Distribution	4.1, 4.2	Binomial Distribution Poisson Distribution	2.3, 2.4, 2.5
9/17	The Poisson Distribution Some other Discrete Distributions	4.3, 4.4		Probability Laws
9/22	Review 1	1.1 – 4.4		
9/24	Exam 1			
9/29	Normal Distribution Exponential Distribution, Some Other Continuous Distributions	4.5, 4.7, 4.8	Normal Distribution Normal Quantile Plot	4.1, 4.2, 4.3, 4.4 Binomial
10/1	Probability Plots Central Limit Theorem	4.10, 4.11		
10/6	Large Sample CI for a Population Mean, CI for Proportions	5.1, 5.2	Central Limit Theorem Normal Approximation	4.5, 4.11 Poisson
10/8	Small Sample CI for a Population Mean	5.3		
10/13	CI for the Difference Between Two Means, CI for The Difference Between Two Proportions	5.4, 5.5	Confidence Intervals CI for $\mu$ , CI for p	5.1, 5.2, 5.3 Normal Approx.
10/15	Small Sample CI for the Difference Between Two Means CI with Paired Data	5.6, 5.7		

Date	Lecture Topics	Textbook Sections	Lab Modules	Lab Quizzes
10/20	Large Sample Test for a Population Mean, Drawing Conclusions from the Results of Hypothesis Tests	6.1, 6.2	CI for $\mu_1-\mu_2$ CI for $p_1-p_2$	5.4, 5.5, 5.6, 5.7  CI for $\mu$
10/22	Tests for a Population Proportion, Small Sample Tests for a Population Mean, and for the Difference Between Two Means	6.3, 6.4, 6.7		
10/27	Review 2	4.5 - 6.4 , 6.7	Hypothesis Test for $\mu$ Hypothesis Test for p	
10/29	Exam 2			CI for $\mu_1-\mu_2$
11/3	Large Sample Tests for the Difference Between Two Means Tests with Paired Data	6.5 6.8	Hypothesis Test for $\mu_1-\mu_2$ Hypothesis Test for $\mu_d$	
11/5	Hypothesis Test for $p_1-p_2$ Distribution Free Tests	6.6 6.9		CI for $p_1-p_2$
11/10	The Chi-Square Test The F-test for Equality of Variances	6.10, 6.11	Hypothesis Test for $p_1-p_2$ Contingency Tables	6.5, 6.6, 6.7, 6.10
11/12	Fixed Level Testing Power	6.12, 6.13		Hypothesis Test for $\mu$
11/17	Multiple Tests, Correlation	6.14, 7.1	Correlation	6.10, 6.11, 6.12, 6.13
11/19	The Least Squares Line	7.2		Hypothesis Test for $\mu_1-\mu_2$
11/24	Thanksgiving Break			
11/26	Thanksgiving Break			
12/2	Uncertainties in the Least Squares Coefficients	7.3	Regression	6.14, 7.1, 7.2
12/4	Checking Assumptions and Transforming Data	7.4		Hypothesis Test for $p_1-p_2$
12/8	Reliability			Contingency Tables
12/10	Review 3			
12/16	Final Exam,	8:00 AM-10:00 AM		