

CIS 343 Challenge Exam

Topics

1. Survey Sampling
2. Sampling Distributions, Central Limit Theorem
3. Z and t Confidence Intervals.
4. One Sample and Z and t Hypothesis Tests
5. Correlation and Simple Regression
6. Multiple Regression and R-squared

CLASS TOPIC	Book Chapter
Review of CIS 243 (Mean, Median, Quartiles, Percentiles, 5-number summary, Standard Deviation, Normal Distribution, the Standard Normal Distribution)	1.2, 1.3
Review of Earlier Statistics, Randomness, Survey Sampling	
Survey Sampling	3.1
The Sampling Distribution of a Sample Mean	4.4
Estimating With Confidence (Confidence Intervals)	6.1 7.1
Hypothesis Testing	6.2
Test of Significance	6.4 7.2
Type II Error	
Two Sample Hypothesis Tests	7.2
Tests for Proportions	8.1 8.2
Scatterplots and Correlation	2.1 & 2.2
Simple Regression	2.3 & 10.1
Simple Regression	10.2, 10.3
Multiple Regression	11.1
Multiple Regression	11.2

Text and References

The Practice of Business Statistics: Using Data for Decisions
Moore, McCabe, Duckworth, Alwan
Current Edition, W. H. Freeman and Company