STA 2023 – Statistics for Business and Economics

COURSE SYLLABUS (July 2018)

Prerequisites: High School Algebra


Coverage:

Chapter 1: Sections 1,3
Chapter 2: Sections 1, 2 (4 - optional)
Chapter 3: Sections 1, 2, 4, 5
Chapter 5: Sections 1, 2, 3, 4
Chapter 6: Sections 1, 2, 3
Chapter 7: Sections 1, 2 (3 - optional)
Chapter 8: Sections 1, 2
Chapter 9: Sections 1, 2, 3
Chapter 10: Sections 1, 2, 3, 4

Topics:


distribution of the sample mean. Central Limit Theorem. Sampling
distribution of the sample proportion.

F. Inferences Based on a Single Sample - Estimation with Confidence
   Intervals: Identifying and estimating the target parameter. Confidence
   interval for a population mean: Student's t-statistic. Confidence interval for
   a population proportion. Determining the sample size.

G. Inferences Based on a Single Sample – Tests of Hypotheses: Elements of
   a test of hypothesis. Formulating hypotheses. Observed Significance
   Levels. Tests of hypotheses about a population mean: Student’s t-
   statistic. Tests of hypotheses about a population proportion.