

ECONOMICS 112
STATISTICS I
COURSE OUTLINE... **On line, 14 week semester**

Session #01

Chapter 1 is a short introductory chapter on the nature and scope of Statistics. Your responsibility will be indicated by an understanding of the definitions listed on page 18. Suggested exercises: 2, 9, 10, 12, 23

Session #02

Chapter 2 covers the basics of organizing and presenting a summary of the data. Your responsibility will be sections 2.1, 2.2 (except dot plots and ogives), 2.3, and 2.4. Suggested exercises: 11, 18, 21 parts a,b,c, 27, 34, 47

Session #03

Chapter 3 presents the basic measures of the data that we will use throughout the text. Your responsibility will be sections 3.1, 3.2, 3.3, 3.5 (except covariance), 3.6 (except grouped data). Suggested exercises: 4, 8, 15, 27, 28, 31, 32, 48, 52, 61

Session #04

Exam #1. This exam will cover chapters 1, 2, and 3

Session #05

Chapter 4 provides an introduction to the concepts of probability. Your responsibility will be sections 4.1 through 4.4. Suggested exercises: 7, 9, 12, 15, 18, 22, 23, 28, 30, 31, 32, 55

Session #06

Chapter 5 introduces probability distributions or “models”. These will allow us to find probabilities in a relatively easy manner. Your responsibility will be sections 5.1 through 5.5. Suggested exercises: 6, 7, 17, 26, 28, 31, 35, 37, 41, 43

Session #07

Exam #2. This exam will cover chapters 4 and 5

Session #08

Chapter 6 introduces the most important “model” for our studies: The Normal Probability Distribution. Your responsibility will be sections 6.2 and 6.3. Suggested exercises: 14,15,17,19,23,27,31

Session #09

Chapter 7 covers the basic tool for inferential statistics: The Sampling Distribution. Your responsibility will be sections 7.1 through 7.7. I would also like you to read section 7.8. Suggested exercises: 15, 17, 26, 27, 30, 35, 37, 41, 43, 45, 51, 53

Session #10

Chapter 8 covers our first inferential procedure: Confidence Interval Estimation. Your responsibility will be sections 8.1 through 8.4. Suggested exercises: 5, 9, 10, 12, 15, 19, 21, 27, 35, 36, 38, 41, 45, 53

Session #11

Exam #3. This exam will cover chapters 6, 7, and 8.

Session #12

Chapter 9 introduces a second inferential procedure: Hypothesis Testing. Your responsibility will be sections 9.1 through 9.7. Suggested exercises: 3, 6, 19, 22, 27, 30, 33, 34, 37, 41, 42, 48, 64, 66, 69, 72

Session #13

Chapter 10 expands our inferential procedures to situations involving two populations. Your responsibility will be sections 10.1, 10.2, and 10.4. Suggested exercises: 4, 7, 14, 17, 35, 37, 38, 43, 44

Session #14

Exam #4. This exam will cover chapters 9 and 10.