

Course Syllabus
University of Colorado Boulder
Introduction to Statistics with Computer Application
Economics 3 1 -030
Spring 201

Professor: Nicholas E. Flores

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Office Hours: T 2-3 p.m., TH 11 a.m. -12 p.m. and by appointment

Classroom: Econ 11

Class Meeting Times: T TH :30 a.m. – 10:45 a.m.

Teaching Assistant: Kas McLean

Recitation Meeting Times & Rooms:

3 1 -031, T 3:30-4:20 p.m., Ketchum 1B 4

3 1 -032, TH 5:00-5:50 p.m., Claire 212

Textbook

week or so we will spend time in class to work on R exercises using the R Studio Interface. There will be a brief introduction in class on Thursday January 1 , but otherwise you are responsible for learning the language syntax required for the R program exercises. R has good self-contained documentation in the basic R installation. A good additional free resource is the book Modern R with the tidyverse by Bruno Rodrigues:

<https://b->

single proportion from a population, and inference about differences in two proportions. The fifth and final part of the course explores correlation, simple regression analysis, and inference about simple regression.

- Chapter 1 Picturing Distributions with Graphs
- Chapter 2 Describing Distributions with Numbers
- Introduction to R
- Chapter 12 Introducing Probability
- Chapter 13 General Rules of Probability
- Supplemental Probability Problems
- Chapter 14 Binomial Distributions
- Chapter 3 The Normal Distributions

Mathematical Expectation & Other Distributions

- Chapter 15 Sampling Distributions
- Properties of Estimators, Central Limit Theorem, Law of Large Numbers
- Chapter 1 Confidence Intervals: The Basics
- Chapter 1 Tests of Significance

January 15 – First Day of Class
February 12 – Midterm 1
March 21 – Midterm 2
March 25-2 – Spring Break
May 2 – Last Day of Class
May , 4:30 – p.m. – Final Exam in Econ 11

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