San Jose State University
Department of Economics

Greg Hanle
Fall 2017

Economics 3
Economic Statistics

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Office Hours: T 3:15 – 4:15 pm, F 1-2 pm, and by appointment

Add/ Drops: You are responsible for all University and Department guidelines regarding the adding and dropping of a class. Please consult the SCHEDULE OF CLASSES.

Text: ***Statistics for Business and Economics,*** James T. McClave, P. George Benson, Terry Sincich, Pearson, 12th edition, 2014
(Note: an electronic version of this book will be available on MyStatLab, which we will use for this course)

Primer on Bayesian Statistics, T. S. Means, 2011
(http://www.sjsu.edu/people/tom.means/courses/econ3/)

Required Websites:
In this class, you will be accessing lab computer assignments and submitting them through the Canvas learning management system. You will also be able to access your grades on the Canvas site.
To begin, you need to know how to access Canvas.
Login URL : https://sjsu.instructure.com
Username : SJSU 9-digit ID
Password : your SJSU One Account Credentials
After logging in, select "FA17: Econ-1A Sec 63 – Econ Statistics" under "Courses".

You will also have access to the electronic version of our text and have homework assignments to do almost every week through the MyStatLab website. Go to www.pearsonmylabandmastering.com to log in or create an account. The course ID for our class is: hanle75972

Note: there is a fee for using the MyStatLab website (you have a grace period to pay this fee once you sign up). There is no fee for the Canvas site

Student Learning Objectives:

- ✓ Define statistical terms as they relate to descriptive and inferential statistics.
- ✓ Learn basic probability rules and essential probability distributions.
- ✓ Learn sampling and basic sampling theory distributions.
- ✓ Learn how to make inferences about population parameters.
- ✓ Learn about basic regression analysis.
- ✓ Apply computer software (StatCrunch) to analyze data.

Course Info:

This is an introductory course in statistics and probability theory. You must have a good working knowledge of basic algebra. Attendance in class is highly recommended since lecture material will go into more depth than the text. Lecture material will also be emphasized on the exams and some lecture material is not in the text. If you are having problems with the course material, please see me early on in the course. I might be able to help you achieve better results if I know of your problem soon enough.

This is a four-unit course. There are three hours of lecture along with 2 hours of lab work each week. Unlike a 3-unit course, I will not do homework problems during lecture so that I will be able to cover more material than a 3-unit semester course. You will learn the computer software, work on computer projects, and go over homework problems during the lab period.

This syllabus has learning objectives, rigor, class meeting times, and assignments commensurate with the expectation of 12 hours of work per week across 15 weeks in a semester. For reference, under a traditional three-unit course, you were expected to complete 9 hours of work per week inclusive.

Disability: Any student with a disability requiring an accommodation should make this need known to the instructor during the first class period. Every effort will be made to accommodate your needs.

Exams, Lab and Homework: There will be **three exams** of equal weight, equally spaced throughout the course. The exams will be **closed book.** You may write formulas on a piece of paper to use during an exam. Incomplete grades will only be considered if you have a grade of C or better. Grading will be done on a curve.

Exam 1	20%
Exam 2	20%
Exam 3	20%
Quizzes/Tests	20%
Lab Projects	20%
	100%

Classroom Protocol:

Turn off cell phones. You are late to class when I close the front door to the classroom. If you are late, please enter the room quietly. If you need to leave class early, sit in the rear of the classroom. Cell phones are allowed during class times but during exams . Bring a calculator if you have trouble with basic math.

CourseOutline:

08/29	Introduction - McClave (1, 3.1) Probability Definitions - Primer (1), McClave (3.1)
09/05	Descriptive Statistics McClave (2) Probability Rules - McClave (3.2-6)
09/12	Bayes Rule – McClave (3.7) Discrete Probability Distributions - McClave (4.1-4)
09/19	Continuous Probability Distributions - McClave (4.5-8)
09/26	**Review, Exam #1**
10/03	Sampling Distributions - McClave (5), Primer (2)
10/10	Confidence Intervals - McClave (6)
10/17	Hypothesis Testing - McClave (7), Primer (3)
10/24	Inferences About Two Populations - McClave (8)
10/31	**Review, Exam #2**
11/07	Inference about Variances - McClave (6.7, 7.7, 8.6)
11/14	Analysis of Categorical Data - McClave (10)
11/21	Analysis of Categorical Data - McClave (10)
11/28	Simple Linear Regression - McClave (11)
12/05	Review
12/12	**Study/Conference Day, No Classes or Exams**
12/19	**Final Exam 5:15 - 7:30 pm**