

Texas A&M International University
A. R. Sanchez School of Business
Division of International Business and Technology Studies
DS2310-301: Business Statistics I
Summer I – 2010

Instructor: Dr. Pablo Camacho
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Office hours: 11:00 AM-12:15 PM: Tuesday, Wednesday & Thursday or by appointment.
Teaching: 12:30-2:30 PM Monday to Thursday. Classroom BH 204

Best way to contact the Instructor is by email (see above), but may also do it through [Facebook](#) and [Twitter](#), see homepage www.tamui.edu/~pcamacho/ for link to these as well as to the Instructor's [Blog](#). Check [Angel](#) for details on lecture calendar, assignments, exams, and supplemental material.

Catalog description

DS2310. Business Statistics I. Three semester hours. (FL/SP/SS)

An introductory study of statistical methods as applied to business and economic problems. Topical coverage includes descriptive statistics, set theory, probability theory, random variables, probability distributions, the normal distribution, sampling methods, sampling distributions, statistical estimation, hypothesis testing, and simple linear regression and correlation analysis. Prerequisite: MATH 1325 with a grade of "C" or better.

Learning objectives

The learning objectives are to assist the student in 1) understanding the role of statistical techniques in the management decision making process, 2) developing the skills necessary to perform "standard" statistical methodology, 3) becoming an intelligent interpreter and consumer of statistical information and reports, and 4) gaining competence in the use of microcomputers and statistical software. The objectives 1, 2 and 3 are measurable through exams, homework and class participation; meanwhile objective 4 is measurable via the HLS software certificates. The major objective of this course is to provide students with an understanding of statistical methods as applied to business and economic problems. Topical coverage includes descriptive statistics, probability theory, random variables, probability distributions, the normal distribution, sampling methods, sampling distributions, hypothesis testing, linear regression and correlation analysis.

Textbook: Basic Business Statistics: Concepts and Applications. **11th Edition**. PEARSON-Prentice-Hall. 2009. **Berenson**, M. L., Levine, D. M., Krehbiel, T. C.; **ISBN-13: 978-0-13-603260-1**

Software: Hawkes Learning Systems (HLS): **Business Statistics**. ISBN: 0-91-809133-0. Available at <http://www.hawkeslearning.com/webcodeform/makacode.asp>

GRADING POLICY

Final Examination	20%	A: $90 \leq$ points
Second Examination	20%	B: $80 \leq$ points < 90
First Examination	20%	C: $70 \leq$ points < 80
HLS software certificates	20%	D: $60 \leq$ points < 70
Term Project	10%	F: $60 >$ points
Homework	10%	

Examination: All examinations will be held during regularly scheduled class time or during the assigned final examinations time. They will be closed book and closed notes. The examinations will not be returned.

Assignments: Late homework or assignment will not be accepted.

Attendance: Class attendance is required. Students are responsible for any class work, assignment, announcement or test they miss because of class absence or failure to check Angel.

Hawkes Learning Systems: Business Statistics. HLS Course ID: TAMIUSTAT

This software runs in three modes. First, using the instruct mode, you gain an understanding of the statistical technique or methodology. Second, using the practice mode, you gain the mastery of the technique with hints and help available to assist your learning. Third, using the certify mode, you are required to obtain your certificate indicating mastery of the topic without help or hints. Once you have obtained your certificate, you should (1) write down the certificate name and its code number in a safe place for future reference, (2) save your certificate on a diskette as prompted by the Hawkes software; get a print-out and save it, and (3) **register your certificate in the database system**. It is your responsibility to ensure that each of your certificates is properly registered in the proper problem series by its due date and that you have maintained a permanent record of your certificate codes. At the end of the semester you will be credited for each certificate earned. The total credit will equal 20 % of the course average with each certificate carrying equal weight.

Copyright statements: Should a faculty member discover that a student committed plagiarism, the student will receive a grade of "F" in that course and the matter will be referred to the Executive Director of Student Life for possible disciplinary action. "The Copyright Act of 1976 grants to copyright owners the exclusive right to reproduce their work and distribute copies of their work. Works that receive copyright protection include published works such as a textbook. Copying a textbook without permission from the owner of the copyright may constitute copyright infringement. Civil penalties include damages up to \$100,000; criminal penalties include a fine of up to \$250,000 and imprisonment."

TENTATIVE SCHEDULE: DS2310-301 Business Statistics I. Summer I - 2010		
Class	Reading	Topic
06/07/10	Chs. 1, 2	Introduction and Data Collection; Presenting Data in Tables and Charts
06/08/10	Chs. 3, 4	Numerical Descriptive Measures; Basic Probability
06/09/10	Practice	Problem solving session, chs. 1, 2, 3
06/10/10	Practice	Introduction to Probability. The Basics of Probability
06/14/10	EXAM	FIRST EXAMINATION <i>Register your certificates at</i> http://www.hawkeslearning.com/TAMIUSTAT/
06/15/10	Ch. 5	Some Discrete probability distributions: Binomial, Poisson, and Hypergeometric. Other discrete distributions
06/16/10	Ch. 6	Continuous probability distributions: Normal, and Standard Normal
06/17/10	Ch. 6 / Practice	Other continuous distributions / Problem solving session, chs. 5, 6
06/21/10	Ch. 8	Confidence Interval Estimation.
06/22/10	Ch. 8, Ch. 9	" " ", Fundamentals of Hypothesis Testing: One-Sample Tests
06/23/10	Ch. 9, Ch. 10	" " ", Two-Sample Tests
06/24/10	Ch. 10 / Practice	" " ", Problem solving session, chs. 8, 9, 10
06/28/10	EXAM	SECOND EXAMINATION <i>Register your certificates at</i> http://www.hawkeslearning.com/TAMIUSTAT/
06/29/10	Ch. 13 "	Simple Linear Regression " " "
06/30/10	Ch. 14	Introduction to Multiple Regression
07/01/10	" / Practice	" " ", Problem solving session, chs. 13, 14
07/05/09	Ch. 14 / Practice	Introduction to Multiple Regression, Problem solving session, chs. 13, 14
07/06/09	Ch. 7	Sampling and Sampling Distribution
07/07/09	Review / Practice	Course Review / Problem solving session
		At least 60 HLS courseware certificates should be registered at http://www.hawkeslearning.com/TAMIUSTAT/
07/08/09	EXAM	FINAL EXAMINATION; Exam Time: 12:30 PM

Administrative Policies:

The Instructor may modify this syllabus.

Team projects involve writing a report and delivering the corresponding Power Point presentation before class. Team project 1 is on assigned readings from The Economics of Macro Issues text. Topic for project 2 will be assigned in lecture and will involve a debate between opposing teams. Two opposing teams will work on the same issue for the debate project (i.e., one team will write a report that supports the Bush tax cuts whereas the opposing team will write a paper criticizing such tax cuts policy), a debate over the issue will be held following the presentation of team reports.

Disruptive behavior will be penalized, after one warning per semester, by subtracting points from the overall final grade of the disruptive student in progressively larger 5-points (i.e., minus 5 points for the first offense; minus 10 points for the second offense, etc.). You will be given clear warning if your behavior is becoming disruptive.

Scholastic Dishonesty: University policies on scholastic dishonesty will be strictly enforced.

SSB Policies

1. Should a faculty member discover that a student has committed plagiarism, the student will receive a grade of "F" in that course and the matter will be referred to the Executive Director of Student Life for possible disciplinary action.
2. The Copyright Act of 1976 grants to copyright owners the exclusive right to reproduce their work and distribute copies of their work. Works that receive copyright protection included published works such as a textbook. Copying a textbook without permission from the owner of the copyright may constitute copyright infringement. Civil and criminal penalties may be assessed for copyright infringement. Civil penalties include damages up to \$ 100,000; criminal penalties include a fine of up to \$ 250,000 and imprisonment.
3. The university is composed of a diverse student body who have a number of different religious beliefs. Reasonable accommodations will be made to allow student to practice their beliefs. It is the responsibility of the student to inform the instructor in advance when there is a conflict between scheduled classroom activities (examinations, quizzes, etc.) and religious holidays.
4. Students diagnosed with ADA recognized problems should contact Dr. Yolanda Garcia, Director of Counseling (CH 312A - 326-2230). Students who have not been diagnosed with an ADA condition but feel that they might be eligible for assistance under provisions of ADA are encouraged to contact Dr. Garcia.