

BANA 5368, Tech. of Statistical Analysis
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Summer 2011, Section 01: 6- 9:50 pm M, W
Office Hours: 5-6 M, W by prior arrangement
at the University Center, and by appt.
<http://www.shsu.edu/~dpg006/>

Welcome! This MBA class is about acquiring facility working with data, describing data, and drawing conclusions from data, and presenting this information to others. It is designed for students who already possess basic knowledge of statistics, as covered in BAN 530, BAN 363, or its equivalent.

Learning Objectives: In this course, the student will learn to conduct descriptive and inferential statistical analysis. In particular, we will discuss:

- how to display the salient qualities of data in a way that is accurate, descriptive, and visually appealing; and
- how to form appropriate inferences about cause and effect from data.

In addition, through class presentations and assignments, we will see how these ideas play out in the real world.

Getting Help: My office hours are listed above. If you contact me by noon that day, I will meet you in an office at the University Center for up to one hour before each class.

By the Book: Keller, *Statistics for Management and Economics*, 8th edition. You are expected to have your own copy of the book and to bring it to class each day. Please also bring a flash drive to every class.

Attendance: Attendance and punctuality are expected and are incorporated into your professionalism grade, but you are allowed to miss one class without penalty. A student who misses three or more classes without an appropriate excuse (severe illness or death in the family) will receive an F in the class. Being tardy to class equals half an absence; missing one hour or more of a class equals one absence.

Making Up: I cannot accept late homeworks except in the most exceptional and unexpected circumstances (typically, severe illness or death in the family). In those instances, appropriate documentation will be required. The same policy applies for tests.

Begraded: Your numerical grade in this class is based on your performance on two exams, a presentation, and professionalism (which includes attendance and punctuality, proper classroom decorum and participation, and completion of assigned homeworks). The first exam, presentation, and professionalism are each weighted 20% and the final 40%.

The first exam, on June 13, covers the “fundamentals” part of the class. The final, which is “naturally comprehensive,” is given on the last class day.

Each of these elements is graded on a scale of 0-100, and then averaged to generate a final course average. This is converted to a letter grade using the standard scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 0-59 = F.

E-Mail Policy: E-Mail is an acceptable form of communication for all class matters. I may sometimes send messages out through the Blackboard system to your SHSU e-mail address; if so I expect you will receive them.

ADA Compliance: It is my obligation and my pleasure to provide reasonable accommodation to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing me at the beginning of the semester and in providing authorized documentation through designated administrative channels. Disabled students may request help with academically related problems stemming from individual disabilities from their instructors, department/division chairs, or by contacting the chair of the Committee for Continuing Assistance for Disabled Students by visiting the Director of the Counseling Center in the Lee Drain Building or by calling (936) 294-1720.

Student Absences on Religious Holidays: Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student who is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence. Refer to the Academic Calendar for the deadline date for notification by students to the faculty members of the student's intent to be absent on religious holy days.

Research Component: This course, as a graduate class, has a required research component. We will meet this requirement with many applied data assignments, along with a graded presentation in which you analyze data you acquire yourself.

High Fidelity: We at Sam Houston expect you to conduct your studies with integrity. Please see SHSU's "Academic Policy Statement 810213," available on Sam Houston's Web Site, for a discussion of what constitutes academic misconduct, including cheating and plagiarism, and for a discussion of the procedures utilized in adjudicating such cases. If I catch you cheating I will, in all but the most minor circumstances, turn you in to academic authorities. In these circumstances, my minimum penalty for cheating is a grade of 0 on that assignment.

While it is acceptable to interact with classmates on the homeworks, which are mostly just checked for completion, what you turn in must still be your own work.

Cell Phones: All cell phones should be turned off and stowed out of sight prior to the start of class. Use of cell phones in class will not be tolerated and will impact your professionalism grade dramatically.

Class Format: The typical class will feature some lecture, some time spent reviewing homework problems, and time spent working applied assignments on the computer. Here is the schedule:

Fundamentals

June 1 Describing Data (Chapters 2, 4, 8)
June 6 Sampling Distributions, Estimation, and Inference (Chapters 9,10,11,12)
June 8 Graphical Excellence and Making Good Presentations (Chapter 3)

June 13 Test 1; Turn in Mini-presentations and First Homework Set

Analysis

June 13, cont. Sampling; Experimental Design; Analysis of Variance (Chapters 5, 14)
June 15 Multiple ANOVA (Chapter 14)
June 20 Univariate Regression; Diagnostics (Chapter 16)
June 22 Multivariate Regression; Model Building (Chapter 17, 18)
June 27 Prediction and Forecasting (Chapter 20)

June 29 Test 2; Presentations; Turn in Second Homework Set