



Class Syllabus

Department of Business Administration & Management Information Systems

Texas A&M University – Commerce

General Information:

Semester:	Fall 2013 (August 26 – October 18, 2013)
Class Time:	1:00-5:00 AM Monday
Class Room:	BA 243
Instructor:	Dr. Bo Han
Email:	bo.han@tamuc.edu
Office:	BA 325
Phone:	903-886-5690
Office Hour:	10 AM-12PM and 2-4 PM Tuesday and Thursday I look forward to meeting you by appointments as well.

Required Text:

D. A. Lind/W. G. Marchal/S. A. Wathen, Statistical Techniques in Business & Economics McGraw Hill Irwin, 15th edition ISBN: 9780073401805.

Optional Supportive Mobile Learning Apps:

For Android Users: Go to Google Play Store. Search “Statistics Tutor”

For Apple Users: Go to App Store. Search “Statistics Tutor” under “iPhone App” category. iPad users can also use it.

Course Description:

This course satisfies the MBA background requirements for quantitative analysis and production management techniques. The course will cover descriptive statistics, inferential statistics and math models with business applications to analyze management and organizational problems. Specific topics include: measures of central tendency and variation, probability distributions, estimation, hypothesis testing, regression and correlation, decision theory, linear programming, transportation and assignment models, and inventory management and queuing theory models.

Course Prerequisites:

Math 141, 175 or equivalent.

Course Objectives & Student Learning Outcomes:

The objective of this course is to provide an understanding for the graduate business student on statistical concepts to include measurements of location & dispersion, probability, probability distributions, sampling, estimation, hypothesis testing, regression, and correlation analysis, multiple regression & business/economic forecasting. By completing this course the student will learn to perform the following:

- 1) How to calculate and apply measures of location and measures of dispersion.
- 2) How to apply discrete and continuous probability distributions to various business problems.
- 3) To understand the meaning of a null and an alternative hypothesis as well as the meaning of Type I and Type II error. Further, to perform test of hypothesis as well as calculate confidence interval for a population parameter for a single mean, including use of the t and the Z test.
- 4) Compute and interpret the results of Bivariate Regression and Correlation Analysis.
- 5) Be able to interpret regression results generated by computer software.

Grading Policy:

Evaluation of student performance will be based upon two equally weighted exams and your performance in question analyses and discussions in the classroom. Each exam will count 40% of the course grade. Question analyses and discussions will count 20% of the course grade. There is no comprehensive final exam. Grades for the course will be determined by achieving the following ranges:

Range	Grade
90-100	A
80-89	B
70-79	C
60-69	D
Below 60	F

Tentative Class Schedule:

The schedule will depend on class progress. Chapter assignments and tests may be altered as the class progresses. Students should read chapters, do as many of the identified homework problems as possible and be familiar with the chapter summaries and the end of chapter self-examinations.

Date	Topic	Text Assignment
Aug 26 M	Class introduction & Chapter 1	
Sep 2 M	<i>Labor Day – No Class</i>	Chapter 2-4
Sep 9 M	Chapter 2, 3, 4	Chapter 5-7
Sep 16 M	Chapter 5, 6, 7 & Review for the Exam 1	Chapter 8, 9

Sep 23 M	Chapter 8, 9 & Exam 1	Chapter 10, 11
Sep 30 M	Chapter 10, 11	Chapter 12-14
Oct 7 M	Chapter 12 - 14 & Review for Exam 2	
Oct 14 M	Exam 2	

Rubric:

Criteria (Course Objectives)	1 Unsatisfactory	2 Emerging	3 Proficient
1. How to calculate and apply measures of location and measures of dispersion	Student cannot calculate and apply any measures of location and measures of dispersion	Student can calculate and apply some of the measures of location and measures of dispersion	Student can calculate and apply most of the measures of location and measures of dispersion.
2. How to apply discrete and continuous probability distributions to various business problems	Student cannot apply discrete and continuous probability distributions to any problems	Student can apply of discrete and continuous probability distributions to some problems	Student can apply of discrete and continuous probability distributions to most of the problems
3. 1 Understand the Hypothesis Testing: Understand the meaning of a null and an alternative hypothesis 3.2 Understand the meaning of type I and type II error. 3.3 Be able to perform test of hypothesis 3.4 Be able to calculate confidence interval for a population parameter for a single mean, including use of the t and the z test	3.1 Student doesn't understand the meaning of a null and an alternative hypothesis 3.2 Student doesn't understand the meaning of type I and type II error. 3.3 Student cannot perform test of hypothesis 3.4 Student cannot calculate confidence interval for a population parameter for a single mean, including use of the t and the z test	3.1 Student understands the meaning of a null and an alternative hypothesis 3.2 Student understands the meaning of type I and type II error. 3.3 Student is able to perform some test of hypothesis 3.4 Student is able to calculate confidence interval for a population parameter for a single mean, including use of the t and the z test	3.1 Student understands the meaning of a null and an alternative hypothesis 3.2 Student understands the meaning of type I and type II error. 3.3 Student is able to correctly perform test of hypothesis 3.4 Student is able to calculate confidence interval for a population parameter for a single mean, including use of the t and the z test
4. Compute and interpret the results of Bivariate Regression and Correlation Analysis.	Student cannot compute and interpret the results of Bivariate Regression and Correlation Analysis	Student can compute and interpret some of the results of Bivariate Regression and Correlation Analysis.	Student can compute and interpret all of the results of Bivariate Regression and Correlation Analysis
5. Be able to interpret regression results generated by computer software	Student cannot interpret regression results generated by a computer software	Student can fairly interpret regression results generated by a computer software	Student can interpret regression results generated by a computer software excellently

Statement of Ethical and Professional Conduct:

The College of Business and Entrepreneurship at Texas A&M University – Commerce faculty, staff and students will follow the highest level of ethical & professional behavior. We will strive to be recognized as a community with legal, ethical and moral principles and to teach and practice professionalism in all that we do. In an academic environment we will endeavor to not only teach these values but also to live them in our lives and daily work. Faculty and staff will be held to the same standards and expectations as our students.

Failure to abide by these principles will result in sanctions up to and including dismissal.

Actionable Conduct:

These are five different types of actions that will bring sanction. They are:

1. Illegal activity: Violation of any local, state or federal laws that prohibit the offender from performance of his or her duty.
2. Dishonest conduct: Seeking or obtaining unfair advantage by stealing or receiving copies of tests or intentionally preventing others from completing their work. In addition falsifying of records to enter or complete a program will also be considered dishonest conduct.
3. Cheating: The unauthorized use of another's work and reporting it as your own.
4. Plagiarism: Using someone else's ideas and not giving proper credit.
5. Collusion: Acting with others to perpetrate any of the above actions regardless of personal gain.

Sanctions:

In the case of staff or faculty the immediate supervisor will be the arbiter of actionable behavior and will use Texas A&M University - Commerce and/or Texas A&M University System Policy and Procedures as appropriate to guide sanctions.

Faculty, guided by clearly delineated policy in the course syllabus, will be arbiter for in-class violations. All violations will be reported to the Dean of the College of Business and Entrepreneurship to assure equity and to provide appropriate counsel. In addition, the Dean will maintain the records of violations by students. Second violations will be reviewed by the Dean and sanctions beyond those of the faculty up to and including suspension and permanent expulsion from Texas A&M University – Commerce will be considered. Faculty and students are guided by the current undergraduate and graduate catalogs of the university as well as The Students Guidebook.

Faculty, Staff and Students will always be afforded due process and review as appropriate.

NOTE THE FOLLOWING:

1. The assignments listed are tentative for the semester. It is meant to be a guide.

Certain topics may be stressed more or less than indicated in the text and, depending on class progress, certain topics may be omitted.

2. Homework: Homework problems will be ASSIGNED, BUT WILL NOT BE COLLECTED OR GRADED. Selected Problems will be solved in class during lectures.

Several problems from the homework may be assigned to be solved using the computer.

3. You will be informed at least one week before each of the four exams.

4. Missed examination: A missed examination may be made-up during the week of final exams. This make-up exam will be comprehensive.

5. Classroom Demeanor: "All students enrolled at the university shall follow tenets of common decency and acceptable behavior conducive to a positive learning environment". See Students Guide Book.

6. Attendance Policy: You are expected to be present for all class meetings of this course. You will be allowed to make up work for classes you miss only if your absence is excusable. Excusable absences are defined in the current University Catalog.

Students with Disabilities:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Gee Library Room 132

Phone (903) 886-5150 or (903) 886-5835 Fax (903) 468-8148

StudentDisabilityServices@tamuc.edu