

**The University of Texas at Arlington**  
**Department of Information Systems and Management Sciences**

**COURSE NAME AND NUMBER:** STAT 3321 – Business Statistics I – May Semester, 2008

**INSTRUCTOR:** Dr. Mark Eakin

**OFFICE:** 525 B

**OFFICE HOURS:** 7:30 to 8 a.m. and 12 to 12:30 p.m.

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**PREREQUISITE:** Math 1316 or Calculus

**TEXT MATERIALS NEEDED:**

- (1) Statistics for Management and Economics, 7th edition, by Keller.
- (2) A Spreadsheet PC package (preferably Excel) that has some statistical capabilities.

**COURSE DESCRIPTION:** (From catalog) Application of statistical techniques to business and economic data. Topics include descriptive statistics, probability distributions, estimation, inference, regression, correlation, and time series.

**LEARNING OUTCOMES FOR STAT 3321 AND STAT 5301**

1. The student will be able to explain the rationale for randomness in data collection, select a simple random sample and describe a data set verbally, graphically, and numerically.
2. The student will be able to apply the complement, addition, and multiplication laws of probability.
3. The student will be able to distinguish between discrete and continuous random variables, find binomial and normal probabilities using tables, and compute expected value and variance for a binomial distribution.
4. The student will be able to state the Central Limit Theorem and use the sampling distributions to find probabilities for the sample mean and sample proportion.
5. The student will be able to construct and interpret confidence intervals for a population mean and a population proportion and to determine sample sizes for given levels of confidence and margins of error.
6. The student will be able to test hypotheses about a population mean and a population proportion and to interpret the results.
7. The student will be able to fit and interpret simple linear regression models along with the usual inferences.

**REQUIRED**

<b>TEST/ASSIGNMENT</b>	<b>DATE</b>	<b>POINT VALUE</b>	<b>FORMAT</b>
Exam 1	May 15	25%	Math and Word Problems
Exam 2	May 20	25%	Math and Word Problems
Assignment	May 22	10%	Group Technical Paper
Attendance	Each day	10%	
Comprehensive Final	May 30	30%	Math and Word Problems

**GRADES:** A = 90% and above, B = 80% - 89.999%, C = 70% - 79.999%, D = 60% - 79.999%, F = 0% - 59.999%. (There will be a penalty of 10% per week day for late assignments.)

**Tentative Course Schedule:**

<b><u>Date</u></b>	<b><u>Chapter</u></b>	<b><u>Suggested Homework</u></b>
May 12	1,5 2,3	5.9, 5.11, 5.17 2.28, 2.44, 2.48, 2.64, 2.76, 2.82
13	4	4.2, 4.4, 4.22, 4.27, 4.29, 4.34, 4.60
14	6 7	6.24, 6.25, 6.26, 6.40, 6.48, 6.77, 6.78 7.82, 7.102
<b>15</b>	<b>Exam 1</b>	
16	8 9	8.36, 8.56, 8.57 9.22, 9.43, 9.44
17	10	10.22, 10.30, 10.54
19	11 12	11.8, 11.10, 11.40, 11.42 12.2, 12.24, 12.20, 12.26, 12.72
<b>20</b>	<b>Exam 2</b>	
21	17	
<b>22</b>	17	17.98 [Assignment due]
23	review	
<b>May 30</b>	<b>Final</b>	

**TESTS:** There will be three closed-book exams. One single, two-sided formula sheet (8 1/2 by 11 inches) will be allowed for each exam. You may include anything on the formula sheet. If bad weather prevents a class from being held, then the schedule will be moved down a class day. Exams will remain on the dates shown but may cover less material in case a class was missed due to inclement weather.

**MAKE-UP EXAMS:** Your grade on the final will be used to replace any one grade for those who have missed an exam due to illness, required travel associated with your job, or death in the immediate family. Any requests for this missed-grade replacement must be accompanied by written documentation: doctor's excuse, letter by your superior on company letterhead, etc. Lack of time to prepare for an exam or too many exams on one day will not be considered as sufficient reasons for a make-up. The final can serve as a make-up for only one exam.

**ATTENDANCE, PARTICIPATION, AND DROP POLICY:** Every class period there will be Suggested Homework Problems assigned from the text (See tentative schedule). During the next class, students will write the homework answers on the board and the class will discuss them.. The class exams are heavily based on these questions. Attendance is mandatory and a part of your grade. Your participation grade will be reduced for activities such surfing the web or reading a newspaper during class time.

Class attendance and lateness policies will be discussed during the first week of class. Those policies include by reference all provisions for grade adjustment or drop policies included in the applicable Graduate or Undergraduate Catalog in effect at the start of the semester. No student will be dropped from the class rolls for absences.

A student dropping a course after the Census Date but on or before the appropriate final drop date will receive a grade of "W" *only* if at the time of dropping, the student is passing the course (has a grade of A, B, C, or D); otherwise an F will be received.

**ASSIGNMENT:** The assignment will need to be done using a computer spreadsheet package. The assignment will be based upon the textbook, lecture material and examples provided by the instructor. The College of Business has several PC labs with Excel software for student use. Hours of operation will be announced when available. The results should be summarized and typed in a technical paper format.

One programming assignments will be given. Twenty percent of the group assignment grade will be based on participation. A group contract will be signed by every member indicating the assigned participation for each group member. At the end of the semester each group member will grade the others on well they completed their part of the contract. I will base the participation grade on these scores. A complete lack of participation will result in an assignment grade of zero.

**EMAIL:** All email to me must be sent from your UTA email address. Emails sent from any other account might be caught by the spam filter and never reach me. Additionally, I will send emails only to your UTA account.

**GROUPS:** The class will be divided into groups of size 4 or 5. I will place students in groups so that the mix of statistics and computer knowledge is basically the same in each group.

**ACADEMIC DISHONESTY:** All students are expected to pursue their scholastic careers with honesty and integrity.

It is the philosophy of this Department, this instructor and the University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University.

"Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, or any act designed to give unfair advantage to a student or the attempt to commit such acts." Regents *Rules and Regulations*, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22.

Institutional procedures regarding charges of academic dishonesty are outlined in Part II, Chapter 2, of the **Handbook of Operating Procedures of The University of Texas at Arlington**. Copies of the Handbook are available at more than 75 locations on campus, including the Student Congress office, the Library, and the Accounting Department Office.

**AMERICANS WITH DISABILITIES ACT (ADA):** The University of Texas at Arlington is on record as being committed to both the spirit and letter of the ADA to make reasonable adjustments in the classroom necessary to eliminate discrimination on the basis of disability. Students should meet with the Instructor during the first week of class to discuss their special needs and advise the instructor of any special needs, abilities or limitations and to discuss the instructor's expectations in class participation, performance and work standards. Any disclosure by the students of their need for accommodations is recognized to be extremely sensitive and all conversations and other communications will be kept protected and confidential and disclosed on a need-to-know basis only.

Students are responsible for contacting and consulting with the University's **Office for Students with Disabilities** prior to contacting the instructor about any disabilities. The student should provide the instructor with some form of written documentation of the disability from an acceptable, external sources (such as a doctor, psychiatrist, etc.) and from the **Office for Students with Disabilities**.

**ABSENCES BASED ON RELIGIOUS BELIEFS:** A student who misses an examination, work assignment, or other assignment due to the observance of a religious holy day will be given the opportunity to complete the work missed within 15 days following the due date of the assignment, test, or other assignment missed. To be eligible for such a make-up, the student must notify me in writing of classes scheduled on dates he or she will be absent to observe a religious holy day. Notification must be made within the first 15 (fifteen) class days through either a written correspondence, personal delivered, acknowledged and dated by me or written correspondence sent certified mail, return receipt requested to me. Failure to follow the rules provided above within the time frames listed will result in the absence being considered unexcused.

**STUDENT SUPPORT SERVICES:** The University supports a variety of student success programs to help you connect with the University and achieve academic success. They include learning assistance, developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107 for more information and appropriate referrals.

**BOMB THREATS:** If anyone is tempted to call in a bomb threat, be aware that UTA will attempt to trace the phone call and prosecute all responsible parties. Every effort will be made to avoid cancellation of presentations/tests caused by bomb threats. Unannounced alternate sites will be available for these classes. Your instructor will make you aware of alternate class sites in the event that your classroom is not available.

**TUITION:**

Students who have not paid by the census date and are dropped for non-payment cannot receive a grade for the course in any circumstances. Therefore, a student dropped for non-payment who continues to attend the course will not receive a grade for the course. Emergency loans are available to help students pay tuition and fees. Students can apply for emergency loans by going to the Emergency Tuition Loan Distribution Center at E.H. Hereford University Center (near the southwest entrance).

**ATTENDANCE AND DROP POLICY:**

Students are required to read and be prepared to discuss the assigned textbook chapters and workbook exercises on the scheduled class days. Class attendance and lateness policies will be discussed during the first week of class. Those policies include by reference all provision for grade adjustment or drop policies included in the applicable Graduate or Undergraduate Catalog in effect at the start of the semester. **NO STUDENT WILL BE DROPPED FROM THE CLASS ROLLS FOR NEVER ATTENDING OR EXCESSIVE ABSENCES.**

A student dropping a course after the Census Date but on or before the appropriate final drop date will receive a grade of "W" *only* if at the time of dropping, the student is passing the course (has a grade of A, B, C, or D); otherwise an F will be received.

**GRADE GRIEVANCES:**

The procedure in the 1997 catalog is the following: "The student has one calendar year from the date the grade is assigned to initiate the grievance. The normal academic channels are the department chair or program director, academic dean, and the Provost...."

**Evacuation Procedures**

In the event of an evacuation of the College of Business building, when the fire alarm sounds, everyone must leave the building by the stairs. With the fire alarm system we now have, the elevators will all go to the first floor and stay there until the system is turned off.

All those in the North tower side of the building should proceed to the fire escape stairs located on the East and West sides of that wing.

**FOR DISABLED PERSONS**....please go to the Northeast fire stairs. We have an evacu track chair located on the 6th floor stairwell. We have people trained in the use of this chair and there will be someone that will go to the 6th floor to get the chair and bring it to any lower floor stairwell to assist disabled persons.

Should this be a real emergency, the Arlington Fire Department and UTA Police will also be here to help.

**THE INSTRUCTOR RESERVES THE RIGHT TO MAKE CHANGES TO THE SYLLABUS AS NECESSARY; IT IS THE STUDENT'S RESPONSIBILITY TO BE AWARE OF THESE CHANGES.**