

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Course #: 14883
Course Title: STAT 3320: Probability and Statistics for Computer Science
Credit Hrs: 3
Term: Fall 2012
Course Meetings & Location: T,TR 1:30 pm - 2:50 pm; Mines Hall 301

Prerequisite Courses: Second Semester Calculus (MATH 1312: Calc II)
Course Fee: (if applicable) None

Instructor: Dr. Jianchun Zhang
Office Location: Bell Hall 215
Contact Info: Phone # 915-747-7004
E-mail address: jzhang4@utep.edu
Fax # 915-747-5806
Emergency Contact: 915-747-5761 (math dept office)
Office Hrs: W 1:30pm – 2:30pm
Textbook(s), Materials: Required: *Probability and Statistics for Computer Scientists* by Michael Baron. Published in 2007 by Chapman & Hall CRC, Taylor & Francis Group, Boca Raton, FL. ISBN 1-58488-641-2

Course Objectives

(Learning Outcomes): Students will be able to read a word problem or a corporate report, realize the uncertainty that is involved in a situation described, select a suitable probability model, estimate and test its parameters on the basis of real data, compute probabilities of interesting events and other vital characteristics, and make appropriate conclusions and forecasts (Lallmahomed, M. 2008, Journal of the Royal Statistical Society: Series A, 171 (1), page 312). This course is designed to satisfy the Accreditation Board of Engineers and Technology requirements for probability and statistics.

Activities and

Assignments: Students will be expected to attend lecture, read the book, and practice the concepts by solving problems from the textbook assigned for homework. The textbook problems will be supplemented with computer assignments requiring the use of statistical software available in the UGLC computer lab and the ACES computer lab in Bell Hall. Statistical software instructions will be provided as needed. In-class group activities will be used to encourage active learning. Study groups to discuss the problems and brainstorm approaches to problem solving are encouraged, however, the written assignments and computer programs turned in for grading are to be your own work and reflect your individual effort.

Course Schedule: **September 12** - Class Census Day. If a student drops before the census date, neither the course nor a grade will appear on the student's academic record. This is the last day to drop without a W.

November 2- Course Drop Deadline

The comprehensive exam will be given during the week of final exams as scheduled by the university.

Grading Policy: The course grade is based on:

25% Graded Homework Assignments (drop lowest homework grade)

15% Quizzes (Drop two lowest quiz grades.)

20% Exam I

20% Exam II

20% Cumulative Final Exam

Calculators may not be shared on exams. Cell phone calculators are not permitted on exams.

Letter grades are determined according to the following scale:

A: 90-100 B: 80-89 C: 70-79 D: 60-69 F: <60

Make-up Policy: No make-up quizzes or late homework are allowed. Make-up examinations will not be given. Students are required to take the two midterms and final exam at the scheduled times.

Attendance Policy: Class attendance is required and noted at the beginning of class; more than two unexcused absences will result in an instructor-initiated drop or final grade reduction.

Academic Integrity

Policy: Violations of academic integrity, including unauthorized submission of work performed by others, will be pursued vigorously to result in the most severe sanctions. Please refer to UTEP's policy cited in <http://academics.utep.edu/Default.aspx?tabid=23875>

Civility Statement: No text messaging in class. Please silence cell phones before coming to class. Students are expected to actively participate in class discussions and group activities. Group work that is not completed in class is to be finished as homework, so use the class time wisely by staying focused on the class topic and avoiding chit-chat.

Disability Statement: If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or at <dss@utep.edu> or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS accommodation letters and instructions.

Military Statement: If you are a military student with the potential of being called to military service and /or training during the course of the semester, you are encouraged to contact Dr. Zhang as soon as possible.