Course #: STAT 5380 (CRN 27331)  
DS 6380 (CRN 27567)  
Course Title: Mathematical Statistics I / Math Foundation of DS I  
Credit Hrs: 3  
Term: Fall 2017 (Instruction 08/28/2017 – 12/07/2017)  
Course Meetings & Location: Classroom Building C304  
1:30-2:50pm TR  
Prerequisite Courses: STAT 3330 with a grade of "C" or better, or its equivalent as approved by the instructor.  
Instructor: Xiaogang Su  
Office Location: Bell Hall 320  
Contact Info: Phone: (915) 747-6860 [O]  
xsu@utep.edu  
Fax: (915) 744-6502  
Office Hours: 12:00-12:50pm TR  
Class Web page: https://sites.google.com/site/xgsu00/STAT5380  
Course Description and Learning Outcomes: The probabilistic foundations of mathematical statistics. Topics covered: Probability spaces, random variables, univariate and multivariate probability distributions, conditional distributions, expectation, generating functions, multivariate transformations, modes of convergence, and limit theorems. Through assigned homework and class discussions, students will also acquire skills to identify real problems that require advanced mathematical and statistical knowledge.  
Course Activities/Assignments: Homework and computer projects will be assigned throughout the semester. You may do the exercises with a partner, but each student must answer the questions individually. Zero grades will be assigned to those whose solutions are the exact copies of someone else’s. NO LATE HOMEWORK WILL BE ACCEPTED.  
Course Schedule:  
01/17 Class starts  
03/30 Class drop deadline  
05/08 - 05/12 Final Exam Period  
Holidays  
03/13-03/17 Spring Break  
03/31 Cesar Chavez Holiday  
Final Exam Schedule: 12/11, Monday 1:00-3:45pm
Grading Policy: There will be three midterms and one comprehensive final exam, plus several homework assignments and a few in-class pop quizzes, which, in together, add up to the final grade.

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<tr>
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<th>Date and Time</th>
<th>Percent</th>
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<tbody>
<tr>
<td>Midterm Exam I</td>
<td>02/23 Thursday 1:30-2:50 pm</td>
<td>20%</td>
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<tr>
<td>Midterm Exam II</td>
<td>03/23 Thursday 1:30-2:50 pm</td>
<td>20%</td>
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<td>Midterm Exam III</td>
<td>04/20 Thursday 1:30-2:50 pm</td>
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<td>Homework</td>
<td>TBA</td>
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<tr>
<td>In-Class Pop Quizzes</td>
<td>TBA</td>
<td>5%</td>
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<tr>
<td>Final Exam</td>
<td>05/11 Thursday, 1:00 -3:45 pm</td>
<td>25%</td>
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Letter grades are determined according to the following scale below. Attendance and class participation will be used to help decide borderline grades.

Grade Score
A  90+
B  80-89
C  70-79
D  60-69
F  <60

Note these raw final scores are out of 105 with five extra credits. However, the extra credits are only applicable to those who complete all assignments and exams without any unexcused absence; otherwise, the final score will be calculated on the 0-100 scale.

Homework problems will be assigned; whether they will be collected nor graded depends on if we are assigned a TA. The solution manual will be made available. It is highly recommended that you do homework regularly and independently before checking out the solutions. If you notify me BEFORE the exam AND have a university excuse for missing the exam, you may take the make-up exam arranged by the instructor.

Attendance Policy: Class attendance is REQUIRED and helpful to decide borderline grades. If a student must be absent from a particular class, he/she will be responsible for catching up with course material. More than a total of FOUR unexcused absences will result in an instructor-initiated drop or grade failing / reduction. Your academic advisor will be consulted before final action is decided and taken. If you expect to miss ten or more class hours for any reason, please don’t consider taking this course.

Academic Integrity Policy: Please see http://academics.utep.edu/Default.aspx?tabid=23785

Civility Statement: This is a class where participation is required. You will be participating in classroom discussions. All students will be treated with respect.
Disability Statement: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

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 me as soon as possible.