CMPE 3343/ELEE 3340 Probability and Statistics for Electrical Engineers  Spring 2019
Class 1:40pm - 2:55pm    MW    EENGR 1.268

Instructor: Dr. Jun Peng             Office: ENGR 3.232
Office hours: M 11:00am-12:00pm, 3:00pm-4:00pm     Tel: (956) 665-2688
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Course Description and Prerequisites:  Probability, random variables, distribution and
density functions, statistical estimators, correlation, regression techniques, system response to
random inputs. Prerequisite: MATH 1470 Calculus II

Textbook:  Probability and Statistics for Engineers and Scientists by Walpole, Myers, Myers,

Topics and Preliminary schedule:

- Week 1: Introduction to Statistics and Data Analysis
- Weeks 2-4: Probability
- Weeks 5-7: Random Variables and Probability Distributions
- Weeks 8-9: Mathematical Expectations
- Weeks 10-11: Discrete Probability Distributions
- Week 12-13: Continuous Probability Distributions
- Week 14: Function of Random Variables
- Week 15: Fundamental Sampling Distributions and Data Descriptions
- Week 16: One- and Two-Sample Estimation Problems

Grading:

Homework 10%,  Attendance and In-class Performance 15%,
Midterm Exam 35%,  Final Exam 40%

1. Coursework will be graded on both final results/conclusions and their
   derivation processes.
2. If copying is found among students’ turned-in coursework, all involved
   parties will get zero credit.
3. Any re-grading request must be submitted within one week.

Assignment:

1. Late submission will not be accepted except arranged in advance.
2. Homework should be handwritten, and presented in a clear, readable form.
   For clarity of presentation, the homework should be written on only one
   side and on a standard size paper. The homework pages must be stapled
   in the upper left-hand corner.
3. No make-up for any missed exam or homework will be permitted unless
   arranged in advance.
Attendance and In-Class Performance:

Attendance is required. A student is counted as being present for a class if the student is present during the whole class time. A student cannot use personal electronic devices, talk, or do anything that introduces interference in a class.

Email communication:

Students must use their official UTRGV email accounts for any correspondence with the instructor. Otherwise, the email may not be replied.

Outcomes:

- Knowledge about probability
- Knowledge about discrete random variables
- Knowledge about continuous random variables
- Knowledge about cumulative distribution functions and their applications
- Knowledge about statistics

UTRGV POLICIES

STUDENTS WITH DISABILITIES:
Students with a documented disability (physical, psychological, learning, or other disability which affects academic performance) who would like to receive academic accommodations should contact Student Accessibility Services (SAS) as soon as possible to schedule an appointment to initiate services. Accommodations can be arranged through SAS at any time, but are not retroactive. Students who suffer a broken bone, severe injury or undergo surgery during the semester are eligible for temporary services.

Pregnancy, Pregnancy-related, and Parenting Accommodations
Title IX of the Education Amendments of 1972 prohibits sex discrimination, which includes discrimination based on pregnancy, marital status, or parental status. Students seeking accommodations related to pregnancy, pregnancy-related condition, or parenting (reasonably immediate postpartum period) are encouraged to contact Student Accessibility Services for additional information and to request accommodations.

Student Accessibility Services:
Brownsville Campus: Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at ability@utrgv.edu. Edinburg Campus: Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at ability@utrgv.edu.

MANDATORY COURSE EVALUATION PERIOD:
Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (http://my.utrgv.edu); you will be contacted through email with further instructions. Students who complete their evaluations will have priority access to their grades.
ATTENDANCE:
Students are expected to attend all scheduled classes and may be dropped from the course for excessive absences. UTRGV’s attendance policy excuses students from attending class if they are participating in officially sponsored university activities, such as athletics; for observance of religious holy days; or for military service. Students should contact the instructor in advance of the excused absence and arrange to make up missed work or examinations.

SCHOLASTIC INTEGRITY:
As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism (including self-plagiarism), and collusion; 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; any act designed to give unfair advantage to a student; or the attempt to commit such acts. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE:
In accordance with UT System regulations, your instructor is a “Responsible Employee” for reporting purposes under Title IX regulations and so must report any instance, occurring during a student’s time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect that is free from sexual misconduct and discrimination.

COURSE DROPS:
According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.

STUDENT SERVICES:
Students who demonstrate financial need have a variety of options when it comes to paying for college costs, such as scholarships, grants, loans and work-study. Students should visit the Students Services Center (U Central) for additional information. U Central is located in BMAIN 1.100 (Brownsville) or ESSBL 1.145 (Edinburg) or can be reached by email (.ucentral@utrgv.edu) or telephone: (888) 882-4026. In addition to financial aid, U Central can assist students with registration and admissions.

Students seeking academic help in their studies can use university resources in addition to an instructor’s office hours. University Resources include the Learning Center, Writing Center, Advising
Center and Career Center. The centers provide services such as tutoring, writing help, critical thinking, study skills, degree planning, and student employment. Locations are:

- Learning center: BSTUN 2.10 (Brownsville) or ELCTR 100 (Edinburg)
- Writing center: BLIBR 3.206 (Brownsville) or ESTAC 3.119 (Edinburg)
- Advising center: BMAIN 1.400 (Brownsville) or ESWKH 101 (Edinburg)
- Career center: BCRTZ 129 (Brownsville) or ESSBL 2.101 (Edinburg)