Class meets M-F 11:20 – 12:50 PM ENGR 1.274 Edinburg

Instructor: Dr. Junfei Li
Office hours: M-Th 2:00 – 3:00 PM or by appointment
E-mail: junfei.li@utrgv.edu

Course Description: Probability, random variables, distribution and density functions, statistical estimators, correlation, regression techniques, system response to random inputs.

Prerequisite: MATH 1470 Calculus II


Tentative Course Topics:

- Introduction to Statistics and Data Analysis
- Probability
  - Random Variables and Probability Distributions
- Mathematical Expectations
- Discrete Probability Distributions
- Continuous Probability Distributions
- Function of Random Variables
- Fundamental Sampling Distributions and Data Descriptions
- One- and Two-Sample Estimation Problems

Grading:

- Homework/ Quizzes: 10%
- Midterm Exam: 45%
- Final Exam: 45%

Late or Missed Work:

1. Late homework submission will not be accepted.
2. No make-up for a missed quiz.
3. No make-up for a missed exam without written permission from the instructor in advance.

Attendance:

1. Attendance is required.
2. If a student is absent for three or more classes without the instructor’s approval, the instructor may drop the student from the course.

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
- Knowledge about random vectors
- Knowledge about random processes

STUDENTS WITH DISABILITIES:

If you have a documented disability (physical, psychological, learning, or other disability which affects your academic performance) and would like to receive academic accommodations, please inform your instructor and contact Student Accessibility Services to schedule an appointment to initiate services. It is recommended that you schedule an appointment with Student Accessibility Services before classes start. However, accommodations can be provided at any time. 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 accessibility@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 accessibility@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 and may receive an amount of extra credits determined by the instructor.

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, 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 in an environment 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.