

**IE 3301 - 002 / Spring 2009**  
**Engineering Probability**

**Professor:** Seoung Bum Kim, Ph.D., 420K Woolf Hall.

**Contact:** E-mail sbkim@uta.edu, Phone 817-272-3150

**Classes:** M/W 8:00AM–9:20AM in 404 Woolf Hall.

**Office Hours:** THUR 9:00AM–12:00PM or email appointment

**Required Text:** *Probability and Statistics for Engineers and Scientists - 8th Edition* by Walpole, Myers, Myers and Ye. A student solution manual is available at the bookstore.

**Teaching Assistant:** TBA

**Course Prerequisites:** Math 2326 or concurrent enrollment.

**Course Description:** Topics in Industrial Engineering that involve random processes. Applications and backgrounds for topics in reliability, inventory systems, and queuing problems, including absolute and conditional probabilities, discrete and continuous random variables, confidence intervals, hypothesis testing, linear regression, analysis of variance, and other topics included in the text book through Chapter 13.

**Course Objectives:** At the end of this course students should be able to (1) understand the basic concepts of probability theory, hypothesis testing, and regression, (2) apply those concepts to solving numerical problems especially those relating to probability distributions, and (3) perform descriptive and inferential statistical analyses of data.

**Homework:** Homework will be announced by email. Late homework will NOT be accepted. Only stapled homework is accepted. Each homework assignment will be scored as 0, 1, or 2. To receive full credit for your homework, show all of your work.

**Key Assignments:** During the semester one or more assignments will be designated as key assignments. To pass this class you must successfully complete all key assignment requirements. Key assignments and their respective grading criteria will be announced in each particular course. Late key assignments will be accepted for completing the class but may not be accepted for the course grade depending on the instructor's policy. In summary, if you do not successfully complete all key assignments, you will receive an incomplete (X) in the class.

**Grading:** (Test dates can be changed)

20%	Test #1, Chapters 1–5. Wednesday, February 25th.
20%	Test #2, Chapters 6,8–10. Wednesday, April 15th.
30%	Final, Comprehensive (more focus on Chapters 11 and 13). Wednesday, May 13th. (8:00AM–10:30AM)
20%	Homework
10%	Project (key assignment)

Letter grades correspond to the following score system (*curve may be considered*):

A = 90–100; B = 80–89; C = 70–79; D = 60–69; F = below 60.

**Test Policy:** They are close book. You may bring your own notebook (Open note). Engineering calculator may be used during tests.

**Regrading Policy:** If you would like a test regraded, you must submit a written statement which clearly explains the reason you would like a regrade. If a test is submitted for regrading, the *entire* test is regraded, and it is possible your score could go down.

**Makeup Policy:** Makeup tests will ONLY be given for *DOCUMENTED* illnesses or emergencies.

**Last Drop Date:** 5:00PM (CST), Friday, April 3rd, 2009. Students who drop a course on or before the last drop date will receive an automatic grade of “W” regardless of whether they have completed assignments or not. Student seeking to drop a course will be advised to speak with the instructor of record and then, if deemed appropriate, proceed to the Academic Advisor for their major (or designee) who will complete the drop in the MyMav system. A “W” will be placed on the student record automatically by MyMav when the drop is entered.

**Inclement Weather Policy:** If the University is closed this class will not meet. Any scheduled assignments or examinations will be rescheduled to the next class period that the class meets. You can get information by dialing 817-272-8821 or 972-601-2049.

**UTA Student Support:** The University of Texas at Arlington 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.

**Americans with Disabilities Act:** The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112 The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of The Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens. As a faculty member, I am required by law to provide reasonable accommodation to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels. Academic

**Academic Dishonesty:** It is the philosophy of 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. Scholastic 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, 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).