

Math 3342: *Mathematical Statistics for Scientists and Engineers*
Second Summer 2006: M-F 12:00 MA 112

Kent Pearce

Office: MA 201-B

Phone: 742-2566

E-Mail: kent.pearce@ttu.edu

HomePage: www.math.ttu.edu/~pearce

(Homework, Projects, Calendar)

Xiao Ji

Office: MA 245

Phone: 742-2580 x 483

E-Mail: xiao.ji@ttu.edu

Problem Sessions: Tu-Th 3:00-4:00/5:00

Office Hours: Tu-Th 2:00-3:00 or
By Appointment

Text

Johnson, Richard

Miller and Freund's: Probability and Statistics for Engineers,
Seventh Ed., Prentice Hall

Course Outline: (Approximate)

Chapter 1	1.1-1.6	Introduction
Chapter 2	2.1-2.7	Treatment of Data
Chapter 3	3.1-3.8	Probability
Chapter 4	4.1-4.8	Probability Distributions
Chapter 5	5.1-5.9	Probability Densities
Chapter 6	6.1-6.4	Sampling Distribution
Chapter 7	7.1-7.6, 7.8	Inferences Concerning Means
Chapter 8	8.1-8.3	Inferences Concerning Variances
Chapter 9	9.1-9.3	Inferences Concerning Proportions
Chapter 11	11.1-11.3	Curve Fitting (As time permits)

Class Based Review Sessions

Thursday, Jul 13, Thursday Jul 27, Friday Aug 4

Critical Dates

Wednesday, July 26, 2006 - Last day to drop a course

Friday, August 4, 2006 - Last day of classes.

Monday, August 7, 2006 - Comprehensive Final Exam (8:00 - 10:30)

Learning Objectives

This course is intended to develop students skills in the following areas:

1. interpreting quantitative statistical data;
2. calculating and analyzing probabilistic data;
3. establishing criteria for making inferences and hypothesis tests;
4. constructing approximating best fit curves.

Assessment of the learning outcomes

Assessment will be achieved through one or more activities, non-graded and graded, such as: attendance, class discussion, board work, short quizzes, selected homework, outside projects, examinations and other optional activities deemed appropriate by the instructor. It is important to note that these assessments are for your learning benefit. Class grades will be assigned according to the following rubric:

Grading

HomeWork	Four Assignments (Due on Tuesdays)	200 pts.
Projects	Two Assignments (Due on Thursdays)	100 pts.
Exams	(2 mid-term examinations; Dates: Jul 14, Jul 28 @ 150 pts.)	300 pts.
Final	(Comprehensive, Monday, Aug 7, 8:00 am - 10:30 am)	<u>200</u> pts.
Total		800 pts.

Grading Scale

A...100% - 90% B...89% - 80% C...79% - 70% D...69% - 60% F...59% - 0%

Notices

Academic Integrity (Extracted from [OP 34.12](#))

It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standard of integrity. The attempt of students to present as their own any work not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offenders liable to serious consequences, possibly suspension.

Scholastic dishonesty” includes, but it not limited to, cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student (such as, but not limited to, submission of essentially the same written assignment for two courses without the prior permission of the instructor) or the attempt to commit such an act.

Observance of Religious Holiday (Extracted from [OP 34.19](#))

A student who intends to observe a religious holy day should make that intention known to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.

Accommodation for Students with Disabilities (Extracted from [OP 34.22](#))

Any student who, because of a disability, may require some special arrangements in order to meet course requirements should contact the instructor at MA 201-B as soon as possible to request necessary accommodations. Students should present appropriate verification from Student Disability Services (AccessTECH). No requirement exists that accommodations be made prior to completion of this approved university process.