

Elementary Statistics for Business
Fall 2008
Course Syllabus

Instructor: Dr. Jayawardhana

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Office Hours: Check the timetable below

Class web page: <http://faculty.pittstate.edu/~ananda/MATH143BU.HTML>

Text: Statistics: A First Course, (Eighth Edition) by Freund and Perles, Prentice Hall

Prerequisites: College Algebra

Objectives: The first objective of this course is to learn how to organize, and summarize data. This is done by sorting, creating different displays, tables and graphics, and calculating summary statistics, measures of location and measures of variation. The second objective is to learn how to use probability to analyze data. Students will learn how to use basic definitions of probability, basic rules of probability, counting techniques and measuring the area to calculate probability. In addition some discrete distributions such as binomial distribution and some continuous distributions such as normal distribution will be discussed with their applications to real life problems. The third objective is to learn about the large sample behavior of the sample mean. Students will learn about the Central Limit Theorem and its applications. The fourth objective is to learn about statistical hypotheses and their testing. The fifth objective is to learn about relationships between two variables. Students will learn about simple linear regression and correlation analysis. One other major objective of this class is to learn how to use EXCEL and/or Minitab computer package to do basic statistical analysis.

Coverage: Chapter 1: Reading Assignment
Chapter 2: Summarizing Data: Listings and Groupings (2.1-2.4)
Chapter 3: Summarizing Data: Statistical Descriptions (3.1-3.7)
Chapter 4: Possibilities and Probabilities (4.1-4.5)
Test 1, Excel 1 & 2 due
Chapter 5: Some Rules of Probability (5.1-5.3,5.5)
Chapter 6: Probability Distributions (6.1, 6.2, 6.6, 6.7)
Chapter 7: The Normal Distribution (7.1-7.3)
Test 2
Chapter 8: Sampling and Sampling Distributions (8.1-8.4)
Chapter 9: Problems of Estimation (9.1- 9.3, 9.5)
Test 3
Chapter 10: Tests Concerning Means (10.1-10.7)
Chapter 12: Regression and Correlation (12.1- 12.5)
Test 4, Excel 3 and 5 due

Final exam will be comprehensive.

Evaluation:	Hour Tests	= 400 points
	Quizzes	= 100 points
	Computer Assignments	= 50 points
	Final	= 200 points

Grading Scale:	90%-100%	= A
	80%-89%	= B
	70%-79%	= C
	60%-69%	= D
	<60%	= F

Instructor keeps the right to lower the scale if necessary.

Regular attendance is expected, but it is not counted in your grade. **It is your responsibility to drop the class if you are no longer interested in taking the class.** Exam dates will always be announced at least two class sessions ahead of time. The last in-class exam may be given during the last week of classes. There will be at least one quiz every week. No make-up will be given for these quizzes unless prior arrangements are made with the instructor, but the two lowest scores from the quizzes will be dropped. At the end quizzes will be scaled to 100 points. No tests will be made up except for absences due to official university activities or health problems with a Dr.'s excuse.

If you have a special need addressed by the **American with Disabilities Act**, please notify me immediately so that appropriate accommodations can be provided.

Suggested Homework

Chapter 1:	1.2, 1.5, 1.8, 1.11, 1.14
Chapter 2:	2.6, 2.11, 2.21, 2.22, 2.30, 2.31, 2.40
Chapter 3:	3.8, 3.19, 3.31, 3.35, 3.41, 3.48, 3.49, 3.51, 3.60, 3.65, 3.86, 3.89
Chapter 4:	4.9, 4.26, 4.28, 4.38, 4.41, 4.43, 4.51, 4.56, 4.58, 4.75
Chapter 5:	5.5, 5.12, 5.13, 5.14, 5.24
Chapter 6:	6.2, 6.12-6.17, 6.61, 6.63, 6.68, 6.69
Chapter 7:	7.1, 7.8-7.13, 7.15, 7.25-7.28
Chapter 8:	8.3, 8.18, 8.21, 8.37, 8.38
Chapter 9:	9.5, 9.7, 9.13, 9.20, 9.30, 9.46, 9.47, 9.56
Chapter 10:	10.16, 10.19, 10.24, 10.25, 10.42, 10.44

Instructor's Time-table

	Monday	Tuesday	Wednesday	Thursday	Friday
8.00-8.50 MWF 8.00-9.00 TTH	Math 143-01 (WL) YH 215	Office	Math 143-01 (WL) YH 215	Office	Math 143-01 (WL) YH 215
9:30-10.45 TH	Office	Math 749 Yates 216	Coffee	Math 749 Yates 216	Office
10.00-10.50 MWF	Math 543 YH 106		Math 543 YH 106		Math 543 YH 106
11.00-12.00 TH	Office	Office	Office	Office	Office
12.00-12.50 MWF	Math 143-04 (WL) YH 215	Lunch	Math 143-04 (WL) YH 215	Lunch	Math 143-04 (WL) YH 215
1.00-2.00	Lunch		Lunch		Lunch
2.00-3.00					

* Note that from 2.00 p.m. to 4.00 p.m. there are other commitments such as independent studies, departmental meetings, departmental colloquia etc. You are encouraged to use the office hours allocated before 2.00 p.m. If my office hours conflict with your other classes please let me know.

Other Issues

Please take clear notes.

Please let me know if I am going faster than your pace.

Please participate in class activities.

Please ask questions in class, after the class or in my office.

Please answer my questions and participate in class.

Please make friends in class and share notes, study together etc.

Please use my office hours anytime you need help. I care about you and your success.

I am open to your reasonable suggestions.