



STATISTICS

Course Syllabus



Course No:	BA 45	Instructor:	Prof. Leonid Romanyuk
Semester:	Fall 2010	Phone:	(510) 628-8024
Units:	3	E-mail:	lromanyuk@lincolnuca.edu
Class hours:	Thursday 12:30 pm – 3:15 pm	Office Hours:	MTH 11:50 am -12:25 pm
Class Room:	TBA	Office Room:	402

COURSE DESCRIPTION:

This course is designed for both the business major and for the non-business student without previous knowledge of statistics. Emphasis is on descriptive statistics and inferential statistics with relevant applications to solving problems, hypothesis testing and decision making. Important statistical models and distributions will be discussed. (3 units) Prerequisite: Math 10 or Math 15

LEARNING OBJECTIVES:

To introduce students to the basic concepts and techniques of business statistics and probability, and to teach students how to apply them. To introduce students to problem solving and statistical modeling and to build a solid foundation in the principles of statistical thinking using case study and example driven discussions of all basic business statistics topics.

INSTRUCTIONAL METHODS:

Lecture method is used in combination with the practical use of a calculator, business software, and the Internet resources to solve application problems. The emphasis will be on learning by doing. Every student must participate in an intensive classroom activity. Reading, writing, and problem solving assignments will be made weekly throughout the course.

REQUIRED MATERIALS:

TEXTBOOK: **Essentials of Business Statistics** with Student CD, 3rd Edition, by Bruce Bowerman, Richard O'Connell, J. Burdeane Orris, Emily Murphree, Graw-Hill/Irwin, 2009, ISBN-10: 0077323130

TOOLS: A scientific or graphical calculator and Microsoft Excel software

OPTIONAL: Student Solutions Manual to accompany **Essentials of Business Statistics**, by Bruce Bowerman, Richard O'Connell, J. Burdeane Orris, McGraw-Hill/Irwin, 2006, ISBN-10: 0073208566

OTHER REQUIREMENTS:

All students are required to attend the class. Continuous assessment is emphasized. Written or oral quizzes will be given every week. Students must complete all assignments and take all quizzes, mid-term exam and final exam **ON THE DATES DUE**. Talking in class, using cell phones, coming late, leaving the room at times other than at break time is not allowed. Plagiarism/cheating will result in the grade "F" and a report to the administration.

TESTING:

Classroom activities	every week	10%
Quizzes	every week	10%
Assignments	every week	30%
Mid-term exam	10/14/2010	20%
Final exam	as scheduled	30%

There will be no make-up for a missed quiz or participation in a classroom activity. No make-up exams will be given unless you have the instructor's prior approval obtained in person before the exam date, with the exception of an extreme emergency. Late assignments will get no credit or reduced credit. *Students will not be allowed to use computers or cellular phones during tests.*

GRADING:

Less than 50% total is an "F"; 75% total is "C+". Other grades will be calculated "on the curve" from the scores above.

COURSE SCHEDULE:

Weekly schedule of topics is attached. Students should read every chapter of the textbook on the topic to be discussed in class before they come to class. Be ready to answer in writing all review questions and to solve problems at the end of the chapter.

ASSIGNMENTS:

Each assignment is due on the Thursday of the next week after it is assigned. Additional assignments based on the Internet and library resources can be given during the semester. Take a folder and create a Project Notebook. You will put in this folder printouts of the results of all your assignments and storage media (floppy disk / CD disc / DVD disc / USB flash drive) with your assignments stored on it. The instructor can ask you to turn in this folder and grade your work at any time during the semester.

MODIFICATION OF THE SYLLABUS:

This syllabus was updated on August 2, 2010. The instructor reserves the right to modify this syllabus at any time during the semester. An announcement of any changes will be made in the classroom.

FALL 2010 SCHEDULE OF TOPICS AND REQUIRED READING

from the textbook **Essentials of Business Statistics**, 3rd Edition

Read every chapter on the topic to be discussed in class before you come to class.

Date	Topics	Chapters
8/26/10	An Introduction to Business Statistics	1
9/02/10	Descriptive Statistics: Tabular and Graphical Methods	2
9/09/10	Descriptive Statistics: Numerical Methods	3
9/16/10	Probability	4
9/23/10	Discrete Random Variables	5
9/30/10	Continuous Random Variables	6
10/07/10	Sampling Distributions	7
10/14/10	Review Midterm Exam	1 - 7
10/21/10	Confidence Intervals	8
10/28/10	Hypotheses Testing	9
11/04/10	Statistical Inferences Based on Two Samples	10
11/11/10	Veteran's Day (Holiday)	
11/18/10	Simple Linear Regression Analysis	13
11/25/10	Thanksgiving recess	
12/02/10	Review	1 – 10, 13
12/09/10	Comprehensive Final Exam	