

IDS 371--BUSINESS STATISTICS II, SPRING 2008, UIC CRN 21335

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Classroom Location	E112 2LCE
Class Meeting Time	MWF 1:00 – 1:50 pm
Credit	3 credit hours
Office Hours	Monday 2:00 – 3:00 pm Wednesday 2:00 – 3:00 pm or by appointment
Classes	January 14 – May 2, 2008
Final Exam	To be announced

Required Textbook

The Practice of Business Statistics: Using Data for Decisions (PBS) by Moore, McCabe, Duckworth and Sclove, W. H. Freeman and Company, New York, 2003.

Text Website

www.whfreeman.com/pbs. This website includes EXCEL Macros, Data Sets, Quizzes, Statistical Applets, Tables, Solutions to Odd-Numbered Exercises, Brief EXCEL Instructions and so on. Students are encouraged to take advantage of the rich source of this website.

Class Website

<http://blackboard.uic.edu>. I will post all of the announcements, homework assignments and grades in this website. Students are encouraged to check this site before each class meeting to obtain the latest information.

Software

Microsoft EXCEL with Add-Ins installed. EXCEL is available at most UIC computers, many offices, and home computers. For those who are interested in using Excel VBA, the Macros can be downloaded from the Text Website for free. Many of the examples given

in the class will be done in EXCEL. Students are also encouraged to use any other statistical packages such as Minitab, SAS, SPlus, SPSS or R.

Course Prerequisites

IDS 100, MATH 160, IDS 270, and all other IDS & University requirements.

Course Description

As a higher-level study of statistics, this class will cover in detail inference and hypothesis testing, statistics for quality control, simple and multiple linear regressions, time series modeling, forecasting and analysis of variance, as well as the practical application in business analysis.

Pedagogical Approach

We will rely on lectures, detailed discussions of statistical problems and exercises, as well as demonstrations of applied statistical analyses to help students to maximize the understanding of the statistical analysis and the application in the business world.

Assignments and Grading

Homework

To be successful in this course, students are required to do homework, which can greatly strengthen your understanding of the lectures and discussions in the class. There will be homework assignments in each chapter. **Assignments will be posted on the Blackboard.** You will do the homework IN GROUPS. By the end of the second week, every student please gets into a group and I will collect the list of each group. Allow at most 4 students in each group. Even though the homework will NOT be collected, I will randomly pick up one group to present their solution to a certain assigned question in the class meeting. Furthermore, doing homework is the best way of preparing the quizzes.

Quizzes

Quizzes will be given based on open-book, open-notes. Totally we will have 5 quizzes, each of which will take 30 minutes in the class. The quizzes will be finished in groups. Please note that, even though this is a group work, every member in a group MUST show up and make efforts on each quiz. Each group must put the names of all group members, who actually worked on the quiz. If you miss the quiz, you will NOT get the grade of your group and will get ZERO points on this quiz. The schedule for Quizzes is attached to the Tentative Schedule Table in this syllabus. Each quiz will cover one chapter and will be based on homework assignments and examples discussed in the class. All 5 quizzes will be graded, but I will drop the lowest-graded quiz and count the remaining four. The grade in each quiz is equally weighted.

Examinations

We will have two exams: midterm and final. These two examinations will be based on open-book and open notes, too. The examinations will be finished individually, NOT in group. The schedule for these two exams may be found in the Tentative Schedule Table.

Missed Exams

I strongly recommend each student to reserve the exam dates in advance. In case you really can't take the scheduled exam, you must discuss this problem with me as early as possible. If you miss an examination, please provide a doctor's memo or other document, stating that you can't show up for the exam. I will provide a make-up exam based on this VALID memo or document.

Grading

Attendance 5%

Quiz 20% (5% each, after dropping one lowest-scored quiz)

Midterm Exam 30%

Final Exam 45%

Total: 100%

Final Grade: A ($\geq 90\%$), B ($\geq 80\% \ \& \ < 90\%$), C ($\geq 70\% \ \& \ < 80\%$),
D ($\geq 60\% \ \& \ < 70\%$), F ($< 60\%$)

Getting Help

Please always ask me when you have any questions. I will be glad to help you if you have any difficulties in studying this course.

Disabled Students

Disabled Students who plan to take their exams through the Office of Disability Services please discuss your schedule with me at least one week in advance.

Honor Code

The Honor Code of the University of Illinois at Chicago (UIC), College of Business Administration is available at:

<http://www.uic.edu/cba/Faculty/academicaffairs/honorcode.html>. All students must comply with this Code.

Tentative Schedule Table

Week	Dates	Topics	Remarks
1	M, 01/14	Introduction	
	W, 01/16	Review of Basics	Ch. 1.2, Ch. 1.3
	F, 01/18	Review of Basics	Ch. 1.3, Ch. 2.1
2	M, 01/21	No Class	Martin Luther King, Jr., Day
	W, 01/23	Review of Basics	Ch. 4.3, Ch. 4.4
	F, 01/25	Review of Basics	Ch. 6.1, Ch. 6.2
3	M, 01/28	Review of Basics	Ch. 6.3
	W, 01/30	Statistics for Quality Control	Ch. 12.1
	F, 02/01	Statistics for Quality Control	Ch. 12.1
4	M, 02/04	Statistics for Quality Control	Ch. 12.2
	W, 02/06	Statistics for Quality Control	Ch. 12.2, Ch. 12.4
	F, 02/08	Statistics for Quality Control	Ch. 12.4; Quiz on Ch.12
5	M, 02/11	Simple Linear Regression	Ch. 10.1
	W, 02/13	Simple Linear Regression	Ch. 10.1
	F, 02/15	Simple Linear Regression	Ch. 10.1
6	M, 02/18	Simple Linear Regression	Ch. 10.2
	W, 02/20	Simple Linear Regression	Ch. 10.2
	F, 02/22	Simple Linear Regression	Ch. 10.2, Ch. 10.3
7	M, 02/25	Simple Linear Regression	Ch. 10.3; Quiz on Ch.10
	W, 02/27	Multiple Linear Regression	Ch. 11.1
	F, 02/29	Multiple Linear Regression	Ch. 11.1
8	M, 03/03	Multiple Linear Regression	Ch. 11.1
	W, 03/05	Multiple Linear Regression	Ch. 11.2
	F, 03/07	Multiple Linear Regression	Ch. 11.2
9	M, 03/10	Multiple Linear Regression	Ch. 11.2
	W, 03/12	Multiple Linear Regression	Ch. 11.3; Quiz on Ch.11
	F, 03/14	Review	Review of Ch. 10, 11, 12
10	M, 03/17	Midterm Exam	Cover Ch. 10, Ch. 11, and Ch.12
	W, 03/19	Time Series Forecasting	Ch. 13.1
	F, 03/21	Time Series Forecasting	Ch. 13.1
11	M, 03/24	Time Series Forecasting	Ch. 13.2
	W, 03/26	Time Series Forecasting	Ch. 13.2
	F, 03/28	Spring Break, No Class	
12	M, 03/31	Spring Break, No Class	
	W, 04/02	Spring Break, No Class	
	F, 04/04	Time Series Forecasting	Ch. 13.3; Quiz on Ch.13
13	M, 04/07	One-Way Analysis of Variance	Ch. 14.1
	W, 04/09	One-Way Analysis of Variance	Ch. 14.1
	F, 04/11	One-Way Analysis of Variance	Ch. 14.1
14	M, 04/14	One-Way Analysis of Variance	Ch. 14.2
	W, 04/16	One-Way Analysis of Variance	Ch. 14.2
	F, 04/18	One-Way Analysis of Variance	Ch. 14.2; Quiz on Ch.14

15	M, 04/21	Two-Way Analysis of Variance	Ch. 15.1
	W, 04/23	Two-Way Analysis of Variance	Ch. 15.1
	F, 04/25	Two-Way Analysis of Variance	Ch. 15.1
16	M, 04/28	Two-Way Analysis of Variance	Ch. 15.2
	W, 04/30	Two-Way Analysis of Variance	Ch. 15.2
	F, 05/02	Review	Review of Ch.13, 14, 15; Instruction ends
17		Final Exam Week	Location and Time to be announced