

University of Illinois at Chicago
IDS 371 - Business Statistics II

Prerequisite IDS 270 (Business Statistics I) or the equivalent

Spring Semester, 2007

Call No. 21335

Instructor Dr. John M. Masley
Office SEO 315
Office hours M W 2:00 - 2:50 PM; and by appointment
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Course meetings M W F 1:00 - 1:50, 17-January to 4-May
Final exam: 1:00pm – 3pm Monday, May 7

Holidays M, 15-January: M. L. King, Jr. Day
M - F, 26-30 March: Spring Break

Places M W F in Room 317 BH

TAs To be announced. Other assistance is available from the CBA and sometimes from the Honors College tutoring program. Be sure to use these resources if you need help.

Course Materials

Required text: *The Practice of Business Statistics: Using Data for Decisions*. Moore, McCabe, Duckworth, Sclove. 2003. W. H. Freeman and Company, New York. Textbook website: www.whfreeman.com/pbs. NOTE: We will do Chapters 10-15. Some versions of this text stop at Chapter 11.

Auxiliary video material: We may show some of the **Against All Odds** videos in class. This highly informative series sometimes is shown on Chicago WYCC, Channel 20. Check their schedule for Spring, 2006.

Software: EXCEL[®], including appropriate Add-Ins, and MINITAB. All IDS students are expected to be proficient in EXCEL before graduating from the College of Business Administration at the University of Illinois. EXCEL is available at most UIC computers and many office and home computers. You will need the EXCEL "Analysis Toolpak" AddIn (not the "Analysis Toolpak - VBA"). If the EXCEL software that you have does not have this AddIn for Statistical Analysis, then you will need to find out why and obtain it or use a UIC computer that has it. In the past the UIC Book Store MicroStation has MicroSoft Office available at discounted academic prices, both containing EXCEL[®]. Useful EXCEL macros are available on the textbook website. MINITAB[®] is statistical software; you will become acquainted with it during this course.

Course Description

Course Intent: The subject of Statistics is essential in everyday life for the critical understanding of daily news, economic reports, and health information. Knowledge of statistics is important in IDS, management, marketing, finance, economics, accounting, etc. The intent is to continue the study of Statistics a bit beyond a first course.

Course Content: The orientation of the course is one of looking at data, solving exercises, and studying applications. There will be a balance of data analysis, the practice of statistics, and statistical theory. This course is the sequel to Business Statistics I. Nevertheless, there will be a very rapid review of Business Statistics I, especially Chs 1-4, 6-9 including uniform and normal distributions, examining relationships, the sampling distribution of the sample mean, confidence intervals, hypothesis testing and p-values. The present course concentrates on Chapters 10-15: Simple Linear Regression, Multiple Regression, Quality Control, One-Way Analysis of Variance, Two-Way Analysis of Variance, and Time Series.

Assignments and Grading

Tasks: The tasks will be quizzes, a midterm exam, and a final exam.

Quizzes, Exams:

Item	Weighting	TENTATIVE SCHEDULE
Quizzes	24%	
Midterm Exam	36%	Midterm Exam: Week 8. Wed 1-March
Final Exam	40%	Final Exams: Finals week, 1 to 5-May
Total	100%	

Quizzes: There will be weekly quizzes. They will be open-book. The even-numbered ones will be graded. For the odd-numbered quizzes, attendance only will be taken.

Exams: There will be a midterm and a final; these will be closed book, but one page of notes will be allowed.

Suggestions for Studying: Students should read the material in advance of lectures and attempt to answer questions at the end of sections, *especially* those related to an anticipated major area, employment or a personal experience! If there are any difficulties resulting from this activity, *please* do any of the following: 1. Ask before, during or right after class or at my office hours; 2. send me an email; 3. Ask a TA or obtain help from CBA tutoring.

Grades: Highest curve: $A \geq 90\%$, $B \geq 80\%$, $C \geq 70\%$, $D \geq 65\%$. Final curve set at the conclusion of the course. If you have at least a 90, 80, 70 or 65 average, you are assured of at least an A, B, C, or D, respectively. Exam and quiz scores will be adjusted to be in the ranges 90-100, 80-89, 70-79, 65-69 so that it will be clear what your letter grade average is throughout the semester.

Your lowest quiz grade will be dropped from your final quiz average .

There will be no *Extra Credit work*. If work is missed due to a reason beyond the control of the student, we *may* allow alternative work. ("Extra credit work" is either unfair or not *extra* credit. That is, every one will have the same opportunity for course credit. If an assignment is available for everyone, it is not "extra." If an assignment is NOT available for everyone, it is not fair.)

Note carefully that *we have no control over how work outside of the classroom is done*. Consequently, if a student does not observe the personal responsibility of understanding everything which is handed in as an assignment, then a high grade for work done outside of the classroom may be achieved together with poor performance on related exam questions. If this happens, the previously announced *weightings of grades on different tasks will be maintained, even if there is a noticeable inconsistency among the grades*.

Course calendar: Read each chapter before the discussion of it in class. Then study the exercises. Consider particularly the "Focus Problems" on Blackboard; these are for possible quiz questions. Other study problems may be suggested from time to time.

Week	Dates	Reading
1	1/17, 19	Chs 2, 4, 6,7, 10 Relationships, Normal & t Variables, Linear Regression
2	1/22, 24, 26	Ch 10 Linear Regression
3	1/29,31 2/2	Chs 10, 11 Regression, continued
4	2/5, 7, 9	Ch 11 Multiple Regression
5	2/12, 14, 16	Chs 11, cont'dl
6	2/19, 21, 23	Ch 12 Quality Control
7	2/26,28 3/2	Ch 12 Quality Control
8	3/5, 7, 9	Review (3/5) & Midterm Exam (3/7) ; Ch 14 One-Way ANOVA
9	3/12, 14, 16	Ch 14 One Way ANOVA
10	3/19, 21, 23	Ch 14 One Way ANOVA
	3/26,28,30	Spring Break
11	4/2, 4, 6	Ch 15 Higher-Way ANOVA
12	4/9, 11, 13	Ch 15 Higher-Way ANOVA
13	4/16, 18, 20	Ch 13 Time Series
14	4/23, 25, 27	Ch 13 Time Series
15	4/30 5/2, 4	Ch 13 Time Series & Review
16	5/7-11	Exam Week Final Exam*: Chs 11-15.

Final Exam: 1pm Monday, May 7 Place TBA _____

- Makeup exams require documentation showing some event beyond your control.
- * - All conflicts with the final exam must be documented. Professors having conflicting final exams will be contacted.

Honor Code for the College of Business Administration
- January 2003

As an academic community the College of Business Administration at the University of Illinois at Chicago is committed to providing an environment in which teaching, learning, research, and scholarship can flourish and in which all endeavors are guided by academic and professional integrity. All members of the college community - students, faculty, staff, and administrators - share the responsibility of insuring that high standards of integrity are upheld so that such an environment exists.

In pursuit of these high ideas and standards of academic life, as a student I hereby commit myself to respect and uphold the University of Illinois at Chicago (UIC) College of Business Administration Honor Code during my entire matriculation at UIC. I agree to maintain the highest moral and ethical standards in all academic and business endeavors and to conduct myself honorably as a responsible member of the college academic community. This includes the following:

- Not to seek unfair advantage over other students, including, but not limited to giving or receiving unauthorized aid during completion of academic requirements;
- To represent fact and self truthfully at all times;
- To respect the property and personal rights of all members of the academic community.

An abbreviated version of the Honor Code pledge may be printed on course syllabi, exam booklets, and other uses as deemed appropriate. The abbreviated version is as follows:

This course and its associated coursework are being administered under the policies of the University of Illinois at Chicago (UIC) College of Business Administration Honor Code. All students are expected to respect and uphold this code.

Honor Code Violations and Enforcement

Violations of the Honor Code are just causes for discipline under the University of Illinois at Chicago Student Disciplinary Procedure, and all allegations of Honor Code violations shall be handled pursuant to that Procedure.

(For a complete description of just causes for discipline, disciplinary procedures, and sanctions, see the pamphlet "Student Disciplinary Procedure of the Senate Committee on Student Discipline," available from the Office of the Dean of Students, SSB, Suite 3030, 1200 W. Harrison St., M/C 318.)

Honor Code Council

The Honor Code Council shall be formed consisting of two faculty members elected by faculty vote and six student members (two graduate students and four undergraduate students) appointed by the assistant dean for student services through recommendation of the Dean's Advisory Council (DAC). Each member will serve a term of one academic year, beginning in August. The Council shall elect a chairperson and a secretary.

The duties of the Honor Code Council shall include:

- Recommend changes in the Honor Code.

- Inform all students, staff, and faculty of the Honor Code and the procedures to be followed for pursuing alleged Honor Code violations.
- Ensure that the Honor Code is prominently displayed within the College of Business Administration and on course syllabi and exam booklets.
- Ensure that the Honor Code and related information are accurately described in the Graduate and Undergraduate catalogs.
- Work with the Office of Student Services to include the Honor Code in its promotion of the University of Illinois at Chicago College of Business Administration to potential students.
- Work with college administration to ensure that the Honor Code statement is signed by all students prior to their enrollment in the college.
- Inform all UIC faculty, staff, and students of the Honor Code of the College of Business Administration, and encourage the adoption of its principles.