

Syllabus

IDS 371, Business Statistics II, Fall 2008
Sec 14016, MWF 11:00AM-11:50AM, LC E2
Sec 14017, MWF 2:00PM-2:50PM, LC E2

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Office Hours: MWF 12:15PM-1:15PM and by Appointment

TA: TBA

Class Web site: <http://blackboard.uic.edu>

Course Description (IDS 371): Continuation of statistical concepts and techniques for operational and managerial decisions, covering concepts and techniques for business application of statistics including inference and hypothesis testing, linear and multivariate regression and time series techniques, model building, quality improvement, and Analysis of Variance. Minitab statistical software will be used to describe and analyze sample data.

Prerequisites: IDS 270 and IDS department and University requirements.

Textbook(s): *The Practice of Business Statistics Using Data for Decisions*, by Moore, McCabe, Duckworth, et al, Freeman and Company, latest (2nd) edition. Please note that you need the bundled version of the textbook that includes the Minitab software available from UIC bookstore. Additional chapters not in the textbook are on the publisher’s website.

Grading Policy:

| Weight | Element |
|--------|----------------------------------|
| 20% | Assignments and project; quizzes |
| 80% | 4 Exams at 20% each |
| 100% | **Total** |

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|-----------|-----------------|-----------------|-----------------|----------|
| A: >= 90% | B: 80% to < 90% | C: 70% to < 80% | D: 60% to < 70% | F: < 60% |
|-----------|-----------------|-----------------|-----------------|----------|

All assignments, due dates, and exam dates will be posted on our web site, in addition to those in the syllabus. You are responsible for checking the web site on a regular basis. General questions must be posted to a Blackboard discussion group, while personal issues should use e-mail. Homework will be assigned and must be turned in by the start of the class, electronically using the student tools digital drop box in Blackboard in addition to a paper copy. Only one submittal per assignment will be accepted. Late homework assignments will not be accepted. To get credit for a homework assignment, you must have discussion covering the business concepts, show the applicable formulas, numeric values substituted into those formulas, and the answer. Once homework or exam grades have been posted it is your responsibility to verify that we have received your assignment and you have received appropriate credit for it. You have one week after the posting of scores and grades to resolve any disagreements. All homework assignments count (none will be dropped). If you must miss an exam, notify me of the University accepted reason so that you can take a make-up exam. Quizzes will be given on the assignments. Assignments are individual – not group. Exams will include multiple choice as well as numeric and descriptive problem solving questions.

Extra Help: Extra help is always available. Please ask, and ask on time.

Honor Code: The last two pages detail CBA policy on this topic.

Approximate (Target) Schedule (IDS 371)

| <u>Period</u> | <u>Dates</u> | <u>Reading assignments (Chapter and section)</u> | <u>Topics</u> |
|----------------------|--|---|---|
| Week 1 | Mon Aug 25 – Fri Aug 29 | 1.2, 1.3; 2.1; 3.1; 4.2, 4.4 | Introduction; Review of Basics. |
| Week 2 | Mon Sep 1 – Fri Sep 5 Holiday Mon Sep 1 | 7.1; 6.1; 8.1, 8.2; 6.2, 6.3 | Confidence Intervals; Hypothesis testing. |
| Week 3 | Mon Sep 8 – Fri Sep 12 | 12.1, 12.2; 12.3 | Statistics for Quality – QA/QC. |
| Week 4 | Mon Sep 15 – Fri Sep 19 | 12.4; 2.5; 9.1, 9.2 | QA/QC; Inference for Tables; Review. |
| Week 5 | Mon Sep 22 – Fri Sep 26 Exam Number 1 | 14.1; 14.2; Review and QA/QC | One-Way Analysis of Variance (ANOVA); CI, Hypothesis Testing, and QA/QC. |
| Week 6 | Mon Sep 29 – Fri Oct 3 | 15.1; 15.2 | One-Way ANOVA; Two-Way Analysis of Variance |
| Week 7 | Mon Oct 6 – Fri Oct 10 | | Two-Way ANOVA |
| Week 8 | Mon Oct 13 – Fri Oct 17 | 2.2, 2.3, 2.4 | Review and problem solving; Least Squares Regression. |
| Week 9 | Mon Oct 20 – Fri Oct 24 Exam number 2 | ANOVA | ANOVA |
| Week 10 | Mon Oct 27 – Fri Oct 31 | 10.1; 10.2, 10.3 | Simple linear regression; Example regression problems |
| Week 11 | Mon Nov 3 – Fri Nov 7 | 11.1; 11.2, 11.3 | Data Analysis for Regression models; Multiple Regression; models. |
| Week 12 | Mon Nov 10 – Fri Nov 14 Exam number 3 | 13.1; Linear Regression | Time Series Forecasting; Linear Regression. |
| Week 13 | Mon Nov 17 – Fri Nov 21 | 13.2 | Time Series Models; Time series example problems |
| Week 14 | Mon Nov 24 – Fri Nov 28 Holiday Thur-Fri (27, 28) | | Review and problem solving |
| Week 15 | Mon Dec 1 – Fri Dec 5 Exam number 4 | Multiple Regression and Time Series | Review; Multiple Regression and Time Series. |
| Week 16 | Mon Dec 8 – Fri Dec 12 | Final exam week | |

Honor Code for the College of Business Administration

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.