

IDS 371: Business Statistics II

Call 23807, TR 3:30pm - 4:45pm, 2LCE E112

Instructor: Yan Xie

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Office Hours: MW 2pm - 3pm UH2403

Course Description:

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 multiple regression and time series techniques, model building, quality improvement, and Analysis of Variance.

Course Prerequisites:

IDS 270(Business Statistics I) or the equivalent.

Textbook:

The Practice of Business Statistics Using Data for Decisions, Second Edition, by Moore, McCabe, Duckworth and Alwan, W. H. Freeman and Company.

Course Website:

<http://blackboard.uic.edu>. All announcements, grades and related course documents will be posted on Blackboard, and you are responsible to check it on a regular basis. Note that class notes will NOT be posted, so if you miss a class, please get the notes from your classmates.

Assignments:

Assignments will be posted on Blackboard every Thursday (except for the first two weeks). The assigned problems are for you to practice and strengthen your knowledge. In general, homework assignments will NOT be collected and graded. However, during the whole semester, the instructor will randomly pick 2 or 3 assignments to grade. Announcement will be made in advance before you are asked to submit an assignment. All assignments must be submitted in class on the due date. Late assignments will not be accepted.

Exams:

There will be 4 exams in total. All exams are based on the textbook, class notes and assignments. Each exam contains at least one assignment problem. So, be sure to do your weekly assignment very carefully.

Please reserve the dates for the exam, no make-up exam will be given without a reasonable excuse. If you are unable to attend the exam, you must discuss this with your instructor IN ADVANCE. If you miss an exam, kindly provide a doctor's memo, stating that you were incapable of taking that exam.

Grading Policy:

Your total grade for this course will reflect performance for the following activities:

Assignments and attendance:	20%
Four exams:	80%(20% for each)

And your final grade is based on the scale below:

A: 90 - 100 B: 80 - 89 C: 70 - 79 D: 60 - 69 F: 0 - 59

This scale may be adjusted according to the relative performance of students in this class.

Extra Help:

If you have questions about any topic or assignment, DO ASK me or your classmates for help, I am here to make the course understood. DO NOT delay your questions. There is no such thing as a stupid question. The only obstacle to learning is laziness.

Rules and Policies

- **Attendance:** You are expected to attend all classes, and are responsible for all announcements made in class.
- **Statute of limitations:** No grading questions or complaints, no matter how justified, will be listened to one week after the item in question has been returned.
- **Cheating:** Cheating will not be tolerated. All work you submitted must be entirely your own. Any suspicious similarities between students' work (this includes, exams and assignments) will be recorded and brought to the attention of the Dean. The MINIMUM penalty for any student found cheating will be to receive a 0 for the item in question, and dropping your final course grade one letter.

Tentative Course Schedule:

This schedule is subjected to changes, e.g., due to spending more time on a particular issue

Class	Date	Class Subjects	Reading / Activity
1	25-Aug	Review of basic statistics and probability	1.2, 1.3, 2.2, 2.3, 4.2, 4.4
2	1-Sep	Review of basic statistics and probability	6.1, 6.2, 6.3, 6.4, 7.1, 8.1
3	8-Sep	Linear Regression	Ch. 10
4	15-Sep	Linear Regression	Ch. 10
5	22-Sep	Exam Number 1 Multiple Regression	Ch. 11
6	29-Sep	Multiple Regression	Ch. 11
7	6-Oct	Multiple Regression Statistics for Quality	Ch. 11 Ch. 12
8	13-Oct	Statistics for Quality	Ch. 12
9	20-Oct	Exam Number 3 One-way analysis of variance	Ch. 14
10	27-Oct	One-way analysis of variance	Ch. 14
11	3-Nov	One-way analysis of variance Two-way analysis of variance	Ch. 14 Ch. 15
12	10-Nov	Exam Number 3 Two-way analysis of variance	Ch. 15
13	17-Nov	Two-way analysis of variance Time series forecasting	Ch. 15 Ch. 13
14	24-Nov	Time series forecasting (Thanksgiving holiday)	Ch. 13
15	1-Dec	Time series forecasting Exam Number 4	Ch. 13
16	8-Dec	Final week	