

Monfort College of Business
Semester Course Syllabus

(2009-2010)

COURSE PREFIX/TITLE: BAFN 305—Intermediate Business Statistics

Sem. Hrs. 3
Ed. Cap. 40

CATALOG DESCRIPTION: Prerequisite: Successful completion of the computer proficiency exam or BA 101. BAFN 291, and MATH 131 or MATH 176. Majors and minors only. Juniors and above. Topics include a review of statistical estimation and hypothesis testing, ANOVA, simple and multiple regression, forecasting and decision theory. Students will use Excel and a number of web-based databases.

PREREQUISITES: Successful completion of the computer proficiency exam or BA 101. BAFN 291, and MATH 131 or MATH 176. Majors and minor only. Juniors and above.

COURSE OBJECTIVES: The student should be able to:

1. identify and define the problem;
2. decide which statistical procedure(s) to use;
3. plan the analysis;
4. locate the relevant data
5. if necessary, use a computer package to complete the analysis, and
6. prepare a report of the 'results and conclusions.'

COURSE TOPICS:

Approx.
50 Min.
Periods

<u>Approx.</u> <u>50 Min.</u> <u>Periods</u>	<u>Topics Covered</u>	<u>Description</u>
8	Statistics Review	Discuss probability, distribution, estimation and hypothesis testing.
3	ANOVA	Discuss, F-distribution, one-way designs, tests of significance for population variances.
3	Chi-Square Applications	Goodness of Fit and Contingency Table Analysis
6	Simple Regression	Discuss regression, covariance, correlation, and R-square, assumptions of bi-variate analysis, prediction and confidence intervals, and Hypotheses tests.
3	Multiple Regression	Discuss parameter estimation, correlation matrix, model construction and evaluation.
4	Time Series and Forecasting	Discuss analysis and projections of trend and seasonal variations.

COURSE TOPICS:Approx.50 Min.PeriodsTopics CoveredDescription

6

Quality Control

Discuss and interpret Pareto charts, Fishbone diagrams, range and attribute control charts.

3

Index Numbers

Laspeyras', Paasche's, review of most used business and economic indices.

1

Decision Theory

Discuss the philosophy and techniques of Bayesian Decision Analysis. Applications in decision analysis.

1

Ethics

Discuss selection of appropriate techniques and sampling bias in light of ethical considerations. Honest and complete reporting of statistics.

2

Exams

45

Total

COURSE REQUIREMENTS: Lab: Design and computation (with the computer) or statistical tests of hypotheses and assigned techniques. Lab assignments may involve determining the appropriate design for the given problem, using the computer to conduct the analysis and writing a report of the results. Examinations.

TYPE OF GRADING: Letter

SUGGESTED TEXT AND/OR SUPPLEMENTS: (Note: These books are only suggested. Prior to purchasing books and other materials, students need to check with the class instructor for their book and class material choices.)

Freed, N. (2007). *Understanding business statistics*. _____: Independent Publishing

ASSESSMENT STATEMENT: The Monfort College of Business may collect data in this course that will be used to assess student progress toward our program learning goals and objectives. Individual student performance information will be kept confidential; however, this data may be disseminated in an aggregate form to professional groups and through research publications. If you do not wish your performance in this class to be included in research about overall student performance (beyond the accreditation process), please inform your instructor in writing of this intent.

COMPUTER UTILIZATION: Students are expected to use Microsoft Excel and Excel add-on products available on the Kenneth W. Monfort College of Business network. Excel provides support for a wide range of statistical techniques. It is used with the PHStat and data analysis add-in.

LIBRARY UTILIZATION: Students are encouraged to use the Michener Library collections and online subscription information resources to supplement readings and to complete assignments. Library

databases include *Business Source Premier*, *Business & Company Resource Center*, *LexisNexis Academic*, and many others available at <http://library.unco.edu/articlefinder.htm>. The business reference librarian, Annie Epperson, holds regular Kepner office hours. Find her contact information at <http://www.unco.edu/library/personnel/epperson.htm>.

GLOBAL DIMENSION COVERAGE: Students will note that the topics listed for this course are not necessarily directly related to global business. However, as appropriate, students are encouraged to consider this dimension as they complete outside readings and assignments.

ETHICAL DIMENSION COVERAGE: “How not to lie with statistics” is a major concern. The selection of appropriate statistical measures, the selection of appropriate techniques and sampling bias are discussed in light of ethical considerations. In addition, honest and complete reporting of statistical results is considered.

DISABILITY STATEMENT: Any student requesting disability accommodation for this class must inform the instructor giving appropriate notice. Students are encouraged to contact Disability Support Services at (970) 351-2289 to certify documentation of disability and to ensure appropriate accommodations are implemented in a timely manner.

CLASSROOM TECHNOLOGY GUIDELINES:

Each student is required to review and become familiar with the following classroom technology guidelines: <http://www.mcb.unco.edu/Technology/Classroom%20Technology%20Guidelines.pdf>

Food is not allowed in classrooms. Only drinks in a container with a screw top lid are allowed.

KENNETH W. MONFORT COLLEGE OF BUSINESS STATEMENT

The Kenneth W. Monfort College of Business students are expected to conduct themselves in accordance with the highest standards of academic honesty. Cheating, plagiarism, illegitimate possession and disposition of examinations, alteration, forgery, or falsification of official records and documents, and similar acts or the attempt to engage in such acts are grounds for disciplinary action. This action can include the following in addition to any University disciplinary action:

1. A failing grade for a particular assignment.
2. A failing grade for a particular course.
3. Suspension from the College of Business Administration.
4. Expulsion from the College of Business Administration.

Students are expected to complete all prerequisites for a business class prior to the first day of class. Students may not concurrently enroll in a class and its prerequisite(s) unless it is expressly stated in the bulletin that the class is a co-requisite. Any exception to this policy must be approved by the Director of the School offering the class.

Students must submit original works for assignments required in this class. This includes term papers, cases and other course requirements. A student who submits a work that was previously submitted to another class without prior approval from the instructor is in violation of this policy. A student who violates this policy may receive a failing grade for the assignment, a failing grade for the class, and face termination of his/her business degree program.

MONFORT COLLEGE OF BUSINESS STUDENT CODE OF PROFESSIONAL CONDUCT:

Monfort College of Business students represent the professional and academic interests of the entire MCB & UNC communities. Accordingly, MCB expects all students to behave in a professional manner and adhere to high ethical standards in every business class and in every activity connected with the Monfort College of Business. This professional behavior is required not only in the classroom but also in all MCB-related interactions such as e-mails, conferences and use of technology.

MCB students should exhibit respectful behavior in classes. This behavior includes arriving on time to class, staying in class until the lecture ends, having the discipline to stay engaged in class, turning-off or silencing cell phones and pagers while in class, refraining from text-messaging, and avoiding coming to class wearing clothing that is unduly provocative or has written messages that are rude, insensitive or obscene. MCB students should engage in respectful behavior in all activities where they act directly or indirectly as a representative of the MCB. Respectful behavior creates a more desirable, civilized, and productive learning environment, and it models behavior that is both productive and pleasant when students transition from the classroom to the workplace.

MCB students should master and apply the fundamental skill of preparing and sending class or university related e-mails that are properly written, show professionalism and communicate a clear message. E-mails containing profanity, spelling mistakes, punctuation errors, or poor composition evidence sloppiness and show disrespect to the recipient. MCB students should use proper forms of address when communicating orally or in writing with faculty or staff (i.e., Dr. Smith, Professor Jones, Ms. Abbot, etc.). If a student does not know how to address a faculty member, he or she should ask.

This code of professional conduct complements, but does not replace, the Honor Code of the Monfort College of Business or the Honor Code of the University.

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