Webster UNIVERSITY

The School of Business & Technology

Course Syllabus

Course	**BUSN 5760 57** Applied Business Statistics
Term	Spring 2, 2008, Camp Bullis, Texas
Instructor	Name: Jim Georgoulakis, Ph.D., MBA Phone: 820-3966 Email: jgeorgoulakis35@webster.edu or drjim@sprintmail.com
Catalog Description	The student examines the application of statistical analysis, hypothesis testing, and regression analysis in business decision making. The course should focus on the utilization of statistical methods as applied to business problems and operations.
Prerequisites	None.
Course Level Learning Outcomes	**Outcomes**
	1. Students can describe basic statistics concepts and apply proper sampling methods.
	2. Students can compute basic descriptive statistics.
	3. Student can describe a normal distribution and apply the concepts of the normal distribution to that of sampling distributions.
	4. Students can construct confidence intervals for both numerical and categorical data, and can apply to a real-world business scenario.
	5. Students can use numerical or categorical data to assess the validity of statements made in a business setting.
	6. Students can perform simple and multiple regression analysis.
	7. Students can determine expected wealth in an uncertain business climate.
	8. Students can apply various advanced forecasting techniques.
Materials	Title: **Basic Business Statistics: Concepts and Applications**, 10th edition Authors: Levine, Krehbiel and Berenson Publisher: Prentice Hall ISBN: 0131678310 • Basic scientific calculator • Access to a computer with the MS Office Suite
Grading	Term Project / Midterm: 25 % Final Examination: 25 % Quizzes : 25 % Participation and exercises: 25 %
Activities	Lectures, Group Activities, Video Presentations, class discussion of articles from current business journals, Internet exercises, take home assignments, quizzes, examinations and a term project.

Policy Statements: University Policies	University policies are provided in the current course catalog and course schedules. They are also available on the university website. This class is governed by the university's published policies. The following policies are of particular interest: **Academic Honesty** The university is committed to high standards of academic honesty. Students will be held responsible for violations of these standards. Please refer to the university's academic honesty policies for a definition of academic dishonesty and potential disciplinary actions associated with it. **Drops and Withdrawals** Please be aware that, should you choose to drop or withdraw from this course, the date on which you notify the university of your decision will determine the amount of tuition refund you receive. Please refer to the university policies on drops and withdrawals (published elsewhere) to find out what the deadlines are for dropping a course with a full refund and for withdrawing from a course with a partial refund. **Special Services** If you have registered as a student with a documented disability and are entitled to classroom or testing accommodations, please inform the instructor at the beginning of the course of the accommodations you will require in this class so that these can be provided. **Disturbances** Since every student is entitled to full participation in class without interruption, disruption of class by inconsiderate behavior is not acceptable. Students are expected to treat the instructor and other students with dignity and respect, especially in cases where a diversity of opinion arises. Students who engage in disruptive behavior are subject to disciplinary action, including removal from the course. **Student Assignments Retained** From time to time, student assignments or projects will be retained by the department for the purpose of academic assessment. In every case, should the assignment or project be shared outside the academic department, the student's name and all identifying information about that student will be redacted from the assignment or project. **Contact Hours for this Course** It is essential that all classes meet for the full instructional time as scheduled. A class cannot be shortened in length. If a class session is cancelled for any reason, it must be rescheduled.
Course Policies	The instructor has arranged for a customized website sponsored by the textbook publishers that will be used for most of the research, homework and quizzes in this course. Students will receive instructions on how to log on to this website for study material and a full calendar of all homework and quizzes required.

Weekly Schedule	**Week 1**: • Introduction to Statistics, • Homework & Research TBA online. **Week 2**: • Descriptive Statistics – Qualitative data • Using MS Excel in statistics Homework & Research TBA online **Week 3**: • Descriptive Statistics – Quantitative data Homework & Research TBA online **Week 4**: • Inferential statistics and Sampling / Hypothesis Testing / applications in business Homework & Research TBA online **Week 5**: • Probability Concepts Homework & Research TBA online **Week 6**: • Analysis of Variance, Linear Regression Homework & Research TBA online **Week 7**: Midterm Examination / Term Project: Individual presentations Homework & Research TBA online **Week 8**: • Time-Series Analysis, Decision-Making Assignment for Week 9:Review for Final Examination **Week 9**: • **In Class Final Examination** **All homework and assignments due.**
Additional Information	Basic knowledge of MS Excel will be required and reinforced in this course.