

Course	BUSN 5760 Applied Business Statistics
Term	Fall II 2008, October 20 – December 19, Wednesday 6 – 10 pm
Instructor	Name: Dr. A. Awosanya Phone: (803) 934-3185 Email: aawosanya@morris.edu
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	Outcome
	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	Anderson, Sweeney and Williams, <i>Essential of Statistics for Business and Economics, 5th. Ed.</i> Thomson, ISBN 0-324-56860-6 American Psychological Association, <i>Publication Manual of the American Psychological Association</i> ISBN 1-55798-791-2

<p>Grading</p>	<p>The course is designed as a hands-on experience; therefore, your attendance is highly encouraged. Class participation will be graded.</p> <p>Your grade will be computed as follows:</p> <table data-bbox="500 380 1263 632"> <tr> <td>Class Participation</td> <td>10%</td> <td>A.....</td> <td>96-100</td> </tr> <tr> <td>Homework</td> <td>10%</td> <td>A-.....</td> <td>90-95</td> </tr> <tr> <td>First Exam</td> <td>25%</td> <td>B+.....</td> <td>87-89</td> </tr> <tr> <td>Mid-term Exam</td> <td>25%</td> <td>B.....</td> <td>84-86</td> </tr> <tr> <td>Final Exam</td> <td>30%</td> <td>B-.....</td> <td>80-83</td> </tr> <tr> <td></td> <td></td> <td>C.....</td> <td>70-79</td> </tr> <tr> <td></td> <td></td> <td>F.....</td> <td>Below 70</td> </tr> </table> <p>Note Carefully: There will be no make up examinations. See the instructor, if there are extenuating circumstances. If you need additional assistance with the course material, please see the instructor before the scheduled examination. The examination must be completed in the maximum time allowed. The time requirement is an integral part of the examination. Students are expected to follow the instructions.</p> <p>The GRADUATE catalog provides these guidelines and grading options:</p> <ul data-bbox="537 995 1430 1436" style="list-style-type: none"> • A/A- Superior graduate work • B+/B/B- Satisfactory graduate work • C Work that is barely adequate as graduate-level performance • CR Work that is performed as satisfactory graduate work (B- or better). A grade of "CR" is reserved for courses designated by a department, involving internships, a thesis, practicums, or specified courses. • F Work that is unsatisfactory • I Incomplete work • ZF An incomplete which was not completed within one year of the end of the course. ZF is treated the same as an F or NC for all cases involving G.P.A., academic warning, probation, and dismissal. • IP In progress • NR Not reported • W Withdrawn from the course 	Class Participation	10%	A.....	96-100	Homework	10%	A-.....	90-95	First Exam	25%	B+.....	87-89	Mid-term Exam	25%	B.....	84-86	Final Exam	30%	B-.....	80-83			C.....	70-79			F.....	Below 70
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<p>Activities</p>	<p>Homework</p> <p>Homework assignments are a central part of the course. Statistics can best be learned by doing, and the homework problems are designed to complement work done in class. Homework for each chapter will be graded. Many students are uncomfortable with the topic of statistics. Accordingly, a significant amount of class time will be spent each session working through examples of the techniques under study. Homework assignments will be reviewed each week in class to facilitate learning. Practice reinforces knowledge. This course seeks to provide an understanding and a high degree of comfort with statistical applications.</p>																												

	<p>All home assignments must be word processed and saved on a computer diskette. A hard copy will be due as scheduled.</p> <p>Periodically, additional readings from the Wall Street Journal, Harvard Business Review and other refereed journals will be assigned. All reading assignments must be completed before coming to class. All class assignments are required and due as scheduled. Computer literacy is an integral part of this course and computer applications and simulations will be demonstrated when appropriate.</p> <p>Other: Calculator with square root function, graph paper, straight edge. Access to a computer with Microsoft Excel will be helpful.</p>
<p>Policy Statements: University Policies</p>	<p>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:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>

	<p>behavior are subject to disciplinary action, including removal from the course.</p> <p>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.</p> <p>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.</p>								
<p>Course Policies</p>	<p><u>ATTENDANCE POLICY:</u> The university reserves the right to drop students who do not attend class the first week of the term/semester. Students are expected to attend all class sessions of every course. In the case of unavoidable absence, the student must contact the instructor. The student is subject to appropriate academic penalty for incomplete or unacceptable makeup work, or for excessive or unexcused absences. Generally, a student who misses more than one four-hour course period (per course) without a documented military or medical excuse and advanced permission of the instructor should withdraw from the class.</p> <p><u>ABSENCE POLICY:</u> If a student is absent, the instructor is to assign makeup work to cover the materials presented that week.</p> <p>If a student has two absences, the instructor has the option to lower the student's grade one letter grade and to inform the student of the action.</p> <p>If a student has three absences, the instructor has the option to assign a grade of F and to inform the student of the action. It is the student's responsibility to withdraw from the course.</p> <p>When the instructor chooses to award a grade of I (Incomplete) for three or four absences, the student must provide acceptable documentation to verify that the absences were unavoidable (e.g. – illness, work conflict, military temporary duty).</p>								
<p>Weekly Schedule</p>	<p>Tentative Class Schedule, Course Outline and Assigned Readings:</p> <table border="1" data-bbox="500 1591 1458 1885"> <thead> <tr> <th data-bbox="500 1591 776 1654">Date</th> <th data-bbox="776 1591 1458 1654">Chapters/Topics</th> </tr> </thead> <tbody> <tr> <td data-bbox="500 1696 776 1759">Week 1</td> <td data-bbox="776 1696 1458 1759">Chapter 1-Data, Measurement, and Statistics</td> </tr> <tr> <td data-bbox="500 1780 776 1843">Week 2</td> <td data-bbox="776 1780 1458 1843">Chapters 2/3 -Descriptive Statistics</td> </tr> <tr> <td data-bbox="500 1864 776 1927">Week 3</td> <td data-bbox="776 1864 1458 1927">Exam #1 Chapters 1-3 Review of Exam #1</td> </tr> </tbody> </table>	Date	Chapters/Topics	Week 1	Chapter 1-Data, Measurement, and Statistics	Week 2	Chapters 2/3 -Descriptive Statistics	Week 3	Exam #1 Chapters 1-3 Review of Exam #1
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	<p>Week 4 Chapters 4/5-Introduction to Probability</p> <p>Week 5 Chapter 6/7/8-Continuous Probability Distributions</p> <p>Week 6 Mid-term Exam Chapters 4-8 Review of Mid-Term</p> <p>Week 7 Chapters 9/10-Hypothesis Testing/Statistical Inference</p> <p>Week 8 Chapter 11/12-Test of Goodness of Fit /Linear Regression</p> <p>Week 9 Final Examination-Chapters 9-12</p>
Additional Information	<p>Bibliography:</p> <ol style="list-style-type: none"> 1. Babbie, Earl, <i>The Practice of Social Research</i>, Wadsworth Publishing 1998. 2. Evans, James R., <i>Creative Thinking: In the Decision and Management Sciences</i>, South-Western Publishing 1991. 3. Daniel, Wayne W., "Statistical Significance versus Practical Significance," <i>Science Education</i>, 1977. [A Classic] 4. Gibbons, Jean D., and John W. Pratt, "P-Values: Interpretation and Methodology." <i>The American Statistician</i>, 1975. [A Classic] 5. Good, I. J., "What are Degrees of Freedom?" <i>American Statistician</i>, 1973. [A Classic] 6. Gossett, W. S., "The Probable Error of a Mean," <i>Biometrika</i>, 1908. [A Classic] 7. Kuhn, Thomas S., <i>The Structure of Scientific Revolutions</i>, (Chicago, 1995).