ECONOMICS BUSINESS STATISTICS
Fall 2012

Instructor: Dr. Chad D. Cotti
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Office Hours: W 9:30 – 11:00, 1:30-3:00**

** The scheduled office hours are times during which I will be available to meet with students on a walk-in basis. Students who wish to meet with me at other times are invited to contact me to set up a special appointment. If you set up an appointment to meet with me you are required to show up, missing an appointment can impact grade. No meetings will be scheduled to begin less than 30 minutes before one of my lectures.

REQUIRED MATERIALS:
2. A good calculator (must minimally be able to calculate square roots).
3. D2L: Textbook, grades, class notes, and exam review materials will be posted on the course Desire 2 Learn webpage.

COURSE PREREQUISITE: Math 104, 108, 204 or 171 with a grade of C

COURSE OBJECTIVES AND DESCRIPTION:
An introduction to descriptive statistics, probability and expectations, theoretical distributions, sampling distributions, estimation, hypothesis testing, and correlation and regression. The course emphasis is on the use, application, and interpretation of these statistical techniques. The objectives of this course include analytical thinking, decision-making and interpretation of computer printouts of statistical analysis. Statistical analysis using MS Excel will also be discussed.

COURSE POLICIES

1. Attendance:
   Attendance is not mandatory, but promptness is required. Overall, your presence in class is highly recommended, but is not required. Attending class regularly can only benefit your overall class performance. It is your responsibility to keep informed of class announcements or course changes that may be made during lectures. Attendance will be occasionally taken for my records. Also, entering class late or leaving early is extremely rude and disruptive to your classmates and the flow of the lecture. If you must leave class early please notify me prior to the beginning of the session.
2. Exams:
   
   A. The exams in this course will be given approximately according to the following schedule:
      
      Exam I: 25%
      Exam II: 25%
      Final Exam: 40%
      
   B. Make-up exams are rarely given. To qualify for a make-up exam, a student must inform
      his/her professor prior to the scheduled exam period and have a legitimate, documented
      reason for missing an exam. Missing an exam without prior approval will require a letter
      from the Dean of Students office excusing the absence; otherwise no make-up will be
      allowed.
      
   C. Exams: Students will be provided with relevant tables from the text. In addition, students will
      be allowed to construct their own formula sheet and notes on one side of a piece of notebook
      paper per exam. No other notes or scrap paper will be permitted during the exams. Students
      will need to bring a calculator and a pencil for the tests. Any additional materials are
      unauthorized and constitute academic misconduct.
      
   D. Time is an element of the exam. Once the allowed time is up all test must be turned
      in. Timed exams are a legitimate method of measuring understanding and
      comprehension, which every college student is familiar (i.e. ACT, SAT, etc.).
      
3. Quizzes and Homework Assignments
   
   1. Quizzes: There will be frequent short, in-class quizzes given throughout the semester.
      Each quiz will consist of 4-5 multiple-choice questions. Students will need to bring a
      calculator and a pencil for the quizzes. These quizzes will be open notes (not open book). 7
      to10 minutes will be allowed to complete the quiz. The dates of these quizzes will not be pre-
      announced, so bring a pencil, calculator and your notes to every class. No make-up quizzes
      will be given for any reason.
      
   2. Homework Assignments: Many chapter problems in the textbook have answers given in
      the appendix and most are assigned from the sections covered for students to do on their own.
      Questions follow chapter outlines and answers to these questions, as well as self-tests, are
      provided. Frequently, homework assignments will be given in class to be handed in and
      graded.
      
      These components together constitute the remaining 10% of your course grade.
5. **Grades**: Course grades will be computed as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>100% - 93%</td>
</tr>
<tr>
<td>A-</td>
<td>92.99% - 90%</td>
</tr>
<tr>
<td>B+</td>
<td>89.99% - 87%</td>
</tr>
<tr>
<td>B</td>
<td>86.99% - 83%</td>
</tr>
<tr>
<td>B-</td>
<td>82.99% - 80%</td>
</tr>
<tr>
<td>C+</td>
<td>79.99% - 77%</td>
</tr>
<tr>
<td>C</td>
<td>76.99% - 73%</td>
</tr>
<tr>
<td>C-</td>
<td>72.99% - 70%</td>
</tr>
<tr>
<td>D+</td>
<td>69.99% - 67%</td>
</tr>
<tr>
<td>D</td>
<td>66.99% - 63%</td>
</tr>
<tr>
<td>D-</td>
<td>62.99% - 60%</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60%</td>
</tr>
</tbody>
</table>

**NOTE**: I may curve exam grades at my discretion. For this reason, once final course grades have been posted on TitanWeb they will not be changed, except in the case of an error.

*Pre-test on D2L (listed as Stats Assessment) due by Sept 9th. **NOTE**: At the end of the semester there will be a post-test on D2L, which is worth extra credit. You will **not be eligible for** the post-test extra credit unless you complete the pre-test at the beginning of the semester.*

**COURSE OUTLINE**

I. DATA AND DESCRIPTIVE STATISTICS

   A. Data and Statistics
   
   B. Tabular and Graphical Descriptive Statistics
   
   C. Numerical Descriptive Statistics

II. PROBABILITY AND SAMPLING

   A. Basic Probability
   
   B. Discrete Probability
   
   C. Continuous Probability
   
   D. Sampling Theory

III. ESTIMATION AND INFERENCE

   A. Confidence Intervals
   
   B. Hypothesis Tests for One Parameter
   
   C. Hypothesis Tests for Two Parameters
   
   D. Regression

**FINAL EXAM** will be the Last Day of Classes.