Instructor: Salvador Lopez, Ph.D.
Email: slopez@westga.edu
UWG Tel: 678-839-4778
Office Hours: M, W: 8 - 9am, 1 - 5pm, or by appointment.

VERY IMPORTANT: This is a 100% online course. However, it is not a “work-at-your-own-pace” type of course since there are specific dates to take tests and complete assignments. If you anticipate having problems submitting work on time and/or taking tests on the specific dates provided, you should not take this course. There will not be a change in those dates to either earlier or later dates.

Every test needs to be recorded using “Tegrity,” a recording software included in the textbook website (McGraw-Hill Connect). To test your computer and webcam system, a short quiz should be submitted first following the instructions that will appear in D2L. If you do not submit this quiz and do not record the test, your grade will not count and you will have to take a proctored test at UWG on Friday, 9am, RCOB 1308 or 1309, during the three-day period of the test. You may also take a proctored exam at a facility near you authorized by UWG in advance.

REQUIRED TEXT: Statistical Techniques in Business & Economics, 16th Edition. Authors: Lind, Marchal, Wathen. Buy the textbook using the “MH Campus” link, inside the “start here” module in D2L. All assignments, including the tests, will be submitted at this website.

COURSE DESCRIPTION: Course emphasis is on applications of statistics in business.
Topics include:
- Review of important statistics concepts such as mean, median, variance, standard deviation, scatter plots, normal probability distribution, standard normal probability distribution, Z scores and Z table reading, sampling distribution of the mean, the central limit theorem, estimation and confidence intervals.
- Review and in-depth coverage of hypothesis testing.
- Two-sample tests of hypothesis, analysis of variance.
- Review and in-depth coverage of correlation and linear regression.
- Multiple regression analysis.

PREREQUISITES: MATH 1111 or MATH 1113, CISM 2201 and a 2.0 minimum GPA.

EXPECTED LEARNING OBJECTIVES
Students will:
- Use continuous probability distributions and sampling distributions in a variety of business applications. (LG2, LG3, LG6, LG12)
- Construct and interpret interval estimates (LG2)
- Perform hypothesis testing for one and two samples
- Estimate regression models, evaluate the results of regression models, and use the results for prediction and forecasting. (LG2, LG3, LG12)
- Use Microsoft Excel to generate descriptive statistics and perform regression and correlation analysis (LG2, LG3, LG12).

Note: A complete list of expected learning goals (LG) for the Economics Department can be found at the department web site (http://www.westga.edu/econ/1718.php).

**“CONNECT” ASSIGNMENTS:** At the textbook website, you will be required to complete two assignments: Homework and LearnSmart. A homework is assigned per chapter and it contains a set of questions based on exercises found in the textbook. It has no time limit and you will have up to two attempts to complete it. As you respond each question, you will have the option to verify whether it is correct or not. The highest grade will be recorded.

**Important:** A significant number of exercises found in both the homework and the tests must be solved using Excel. You need to have Excel 2013 or later version installed in your computer.

LearnSmart is also assigned per chapter and it contains a series of questions that review the most important material. I recommend you to complete this assignment before anything else. As you take this assignment, the textbook will be highlighted in the areas that you need to review and the correct answers are revealed. After you finish responding to all the questions, you’ll have another chance to respond again to those that you submitted wrong the first time. That process repeats until you may get all the answers correct. A video demonstrating how to use Connect will be posted in D2L, “start here” module.

Weights: ten percent for homework, five percent for LearnSmart. Both assignments are due by 8am on the day each test opens. Advice: complete assignments ahead of time. The deadlines will not be postponed regardless of reason.

**TESTS:** During the semester, you will be required to take four tests. One after completion of each part of the course. Part I: review of chapters 3, 7-9, part II: chapters 10 & 11, part III: chapters 12 & 13, and part IV: chapter 14 and regression assignment. All tests will be taken at the McGraw Hill (Connect) website using “Tegrity.” Rules to take the tests:

- You will be allowed to use any notes you want, but you have to take each test individually.
- You must have a webcam and microphone installed and connected to your computer.
- Each test is available during three days (Thursday-Saturday). You may take it at any time during those three days up until 11pm on Saturday (due by 11:59pm, Saturday). The dates will not be changed, regardless of reason.
- No make-up tests will be given, unless the student shows valid excuse demonstrating inability to access a computer during those three days. For example, hospitalization requiring care in an ER or ICU.

Percent of final grade assigned to tests: 20 percent each.

**REGRESSION ASSIGNMENT:** Based on the material learned in chapter 14, you will be assigned an Excel regression exercise due by 8am on the first day of test 4, or final exam. The instructions and specific exercise will be posted in D2L right after test 3. Grade weight: 5%.
**CHEATING:** Academic dishonesty on any exam will result in a zero on that exam, a note recording the incident on the student's permanent record and the student reported to Student Services for appropriate disciplinary action by the University. Students not familiar with what constitutes academic dishonesty or those unfamiliar with the appeal procedure regarding academic dishonesty should refer to the UWG Undergraduate Catalog.

### GRADE DISTRIBUTION BY ACTIVITY

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<tr>
<th>ACTIVITY/MATERIAL</th>
<th>DATE</th>
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<tbody>
<tr>
<td>Homework</td>
<td>Online (due by 8am the first day each test opens)</td>
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<tr>
<td>Learnsmart</td>
<td>Online (due by 8am the first day each test opens)</td>
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<tr>
<td>Test 1 (chapters 3, 7-9)</td>
<td>Th – Sat (2/4 – 2/6)</td>
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<tr>
<td>Test 2 (chapters 10 &amp; 11)</td>
<td>Th – Sat (3/3 – 3/5)</td>
<td>20%</td>
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<tr>
<td>Test 3 (chapters 12 &amp; 13)</td>
<td>Th – Sat (3/31 – 4/2)</td>
<td>20%</td>
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<tr>
<td>Test 4 (Chapter 14)</td>
<td>Th – Sat (4/21 – 4/23)</td>
<td>20%</td>
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<tr>
<td>Regression Assignment</td>
<td>Due by 8am, 4/21 (use D2L dropbox)</td>
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**Final Letter-Grade Assignment:**

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<td>70 – 79.99</td>
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<td>B</td>
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<tr>
<td>90 – 100</td>
<td>A</td>
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After assignments listed in the syllabus are completed, no extra assignments or bonus questions will be assigned to improve your grade.