

Syllabus for ECON 3406: Statistics for Business II

Instructor: Dr. Michael Sinkey

Class Time and Location: This class will be facilitated online, but exams will be held in-class. Please check D2L daily.

Contact Information: Please e-mail me directly at msinkey@westga.edu should you need me. I check D2L but UWG e-mail is better.

Office and Office Hours: Online. Please use your D2L and your UBlend to post questions that may be beneficial to class. If you have specific concepts which you don't understand, e-mail me or call me at 513.431.5120. You may call at any time from 9-5 M-F, or you can contact me at another time.

Materials for Class: All of the materials are online.

Class Description: This is the second course in our quantitative sequence. We will cover hypothesis testing as a review from ECON 3402, regression and multiple regression, forecasting methods, basic analytics and a little bit of project design, and other selected topics. Students who have not taken ECON 3402 in some time will need to go back over hypothesis testing, confidence intervals, standard deviation, correlation coefficient, and the basics of forming a trend line as I will only devote a limited amount of time for these topics. Course learning objectives can be found on the Economics website, see <http://westga.edu/econ>. **I will post narrated lectures every Thursday by midnight for the week's material if not earlier.**

Class Requirements: Problem Set #1 (Excel) and Problem Set #3 should be submitted via Excel only. Problem Set #2 has components that require both Excel and Word. Problem Set #1 should be completed by either Word or by taking a picture of the homework and sending as a .pdf. Each Excel file should be only one file with multiple worksheets and I will only accept one e-mail's worth of files.

Expectations, Grades, Late Work: There will be four problem sets and three exams, and a final. Each problem set is worth ten percent of your grade and I take the best three out of four. I will give 25 percent to each of the top two midterm scores and 10 percent to the lowest score. Late problem sets will not be counted because I will post the answer key shortly after. I will use a standard ten-point scale. Anybody who makes a *reasonable effort* will receive at least a D. I define a reasonable effort as missing two or fewer classes, turning in all the problem sets and making at least a fifty percent on one test.

Cheating: As juniors and seniors, I expect you to know what cheating is, but I will pursue whatever action is necessary should I catch you cheating, which will include a zero on the item in question and may include failing the class. I define cheating as communicating on an exam, having access to unauthorized materials during an exam, and submitting someone else's work as your own.

Class Policies: Act professionally. No cell phones as calculators. Do not show up late to my exams and expect extra time. If you need to make up an exam, you must have a valid documented excuse and must take the exam the next calendar day. You will receive a different version of the exam distributed in class, which may be more difficult, although I will not intentionally make an exam more difficult. Any adjustments to the makeup policy are case-by-case and are solely my discretion. **I am perfectly willing to let somebody take a zero on an exam.**

Common Language for Course Syllabi: This class abides by the common language for course syllabi, available online at:
http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf. Read it.

Disabilities: Students with disabilities will be accommodated. Bring your paperwork to me in time for me to be able to accommodate you. This means at least one week before your exams. Contact 123 Row Hall, phone 678.839.6428 if necessary.

Tentative Schedule: subject to change:

| Week | Topics Covered |
|-------------|---|
| 1 | Review of ECON 3402, part one: standard deviation, correlation coefficient, use z-table, etc. |
| 1 | Review of ECON 3402, part two: confidence intervals, hypothesis testing |
| 2 | Review of ECON 3402, part three: hypothesis testing start of ECON 3406: chi-square tests |
| January 24 | PS1 non-Excel due on January 24, midnight |
| January 26 | Exam 1 in-class |
| January 26 | PS1 Excel due on January 26, midnight |
| 3 | Single-factor and two-factor ANOVA, F-tests |
| 4 | Single variable regression, introduction to multiple regression |
| 5 | Multiple variable regression |
| February 7 | PS 2 due on February 7, midnight |
| February 9 | Exam 2 in-class |
| 6 | Introduction to forecasting: naïve model, modified naïve model, moving averages |
| 6 and 7 | Forecasting: single and double exponential smoothing, Holt model |
| 7 | Forecasting: single and double exponential smoothing, Winters model |
| February 25 | PS 3 due on February 25, midnight |
| February 28 | Exam 3 in-class |