

**ECON 3406, section 01 – BUSINESS STATISTICS II – Fall 2016.**  
**CRN: 81630. Meets: M, W 11:00am – 12:15pm. Room: RCOB 1308.**

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Office Hours: M, W: 8:00 AM – 9:00 AM, 3:15PM – 4:15PM. T: 8AM – 12PM, 1PM – 3PM. Room: 1317

**REQUIRED TEXTBOOK:** Statistical Techniques in Business & Economics, 16<sup>th</sup> Edition. Authors: Lind, Marchal, Wathen. Buy the textbook and access to assignments using the “MH Campus” link in D2L. You will be expected to have registered and login by the start of the third day of classes (8/17/2016). Otherwise, you will be dropped from the course.

**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>).

**ATTENDANCE AND CLICKERS:** Attendance is not required. However, there will be in-class questions in every session, which will be used to evaluate class participation. If you get involved in “disruptive and disrespectful” behavior (read below) while in class, you will be considered absent and will receive a “0” grade.

At the beginning of every class, you will pick up the specific (numbered) clicker assigned to you and will be required to replace it with your own cell phone, which should be turned off. In other words, you are expected not to use any electronic device to chat, text, or access the internet while in class.

Very important: At the end of the course, the average grade of this activity will be assigned up to five extra points added to your final grade. In other words, if you do not want to attend classes due to

personal preference, you will not be penalized. Videos discussing every chapter's main topics will be available.

Clicker grading: One point for any incorrect answer. Two points for every correct answer.

**TESTS:** During the semester, you will take four tests, one per module shown in CourseDen. The date and material for each test are listed below. Since notes and books will be allowed in every test, you will be responsible for bringing any necessary formulas and/or tables. However, electronic devices, communication, or attempts to communicate with other students, are not allowed. Test questions will be based on the concepts and exercises discussed, illustrated and solved during class, practice exercises, and homework assigned on the textbook's website. Maximum time allowed for each test is one hour except for test 1 (one hour and 10 minutes). Each test is assigned 20% of your final grade. All tests will be taken in room 2329 (computer lab), RCOB, 2<sup>nd</sup> floor.

**SYLLABUS QUIZ:** On the third day of classes (8/17), you will take a 10-question quiz based on the course syllabus. Time allowed is 10 minutes. Weight assigned: 2%. If you have not attended classes by this day and/or have not registered in the course using Connect (McGraw-Hill), you will be dropped from the course.

**MAKE-UP POLICY:** If you miss a test due to a verifiable and justifiable reason (medical, accident, etc.), you can take a make-up test on the closest Friday at 9:00 am. If you think you may have a valid excuse for not taking a test, contact your instructor as soon as possible (preferably before the test). Please keep in mind that email messages or phone calls are not valid excuses. Only medical notes, police reports, or similar, are valid excuses. Important: all excuses/reports must show specific dates, names and contact numbers.

**HOMEWORK:** Before each test, you will be responsible for completing "homework" assignments, which are found at the textbook website. These consist of exercises based on material relevant to each test. Homework will be assigned for chapters 3, and 7-14. Chapters 3 and 7-9 for test 1, chapters 10 and 11 for test 2, chapters 12 and 13 for test 3 and chapter 14 for test 4. "Check my work" is available for this assignment. Grade weight: 8%.

**LEARNSMART:** The textbook website contains a section called "learnsmart", which consists of a series of questions, per chapter, that review the most relevant material. Every question includes references and hints to help you achieve effective learning. You will get full credit if you just review, and try to respond, each question presented. All answers are revealed and you always have the opportunity to submit the right answers. Your grade in this assignment will be equal to the percent completed, per chapter. In the CourseDen homepage, there is a video link that helps you understand this assignment. Recommendation: complete this assignment before in-class coverage. For further questions, please contact your instructor. Grade weight: 3%.

**PRACTICE EXERCISES:** To help you prepare for each test, there will be a set of practice exercises for every chapter assigned. Answers are included. This is not a graded assignment.

**REGRESSION ASSIGNMENT:** Based on the material learned in chapter 14, you will be assigned an Excel regression exercise due by 8am Wednesday, November 30th, 2016. The instructions and specific exercise will be provided at the beginning of module IV. Grade weight: 7%.

**CELL PHONES:** As soon as class starts, all cell phones must be turned off and placed inside the corresponding clicker slot. Other electronic devices with internet capability should be turned off too. If your cell phone rings or vibrates inside the clicker bag, you will receive a warning for disruptive behavior.

**LAPTOPS:** If you want to take notes using a laptop or tablet, you must sit in the first row and should let the instructor know in advance. If you use it for internet entertainment (texting, facebook, etc.), your clicker grade will be zero and you'll be given a warning for disruptive behavior.

**CHEATING:** Academic dishonesty on any exam, quiz, or clicker activity (read "clicker instructions" below) will result in a zero on that assignment, 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 and Student Code of Conduct.

#### **GRADE DISTRIBUTION BY ACTIVITY**

<b>ACTIVITY/MATERIAL</b>	<b>DATE</b>	<b>WEIGHT</b>
In-class (Clicker) questions	Every session	NA
Syllabus quiz	Wednesday, 8/17	2%
Homework	Online (due by 8am the day of each test)	8%
Learnsmart	Online (due by 8am the day of each test)	3%
Regression Assignment	Due by 8am, 11/30	7%
Test 1 (chapters 3, 4, 7-9)	Wednesday, 8/31	20%
Test 2 (chapters 10 & 11)	Monday, 10/3	20%
Test 3 (chapters 12 & 13)	Wednesday, 11/2	20%
Test 4 (Chapter 14)	Wednesday, 11/30	20%

**DISRUPTIVE/DISRESPECTFUL BEHAVIOR:** UWG Student Code of Conduct states that classroom disruptions may be "any classroom behavior that interferes with the instructor's ability to conduct class or the ability of other students to learn. Examples of disruption include, but are not limited to, the following: allowing personal electronic communication devices to ring or beep, making or receiving phone calls or pages, or engaging in conduct that causes or provokes a disturbance that disrupts academic pursuits, or infringes upon the rights of others." It adds "instructors may also include in their syllabus specific behaviors they consider to be inappropriate for a particular course."

Specifically, your instructor considers the following as inappropriate, disruptive, or disrespectful behavior:

- Leaving early (before class ends)
- Taking frequent bathroom breaks
- Eating or drinking (not allowed in all classrooms)
- Yawning loudly
- Talking during lectures or interrupting
- Receiving or sending text messages, or accessing the internet with any electronic device
- Leaving cell phone on and it rings or vibrates
- Dressing inappropriately to the extent of being a distraction to others.

- Entering the room despite a “no enter” sign displayed at the door, or knocking on the door after it’s been locked.

A student who commits disruptive behavior will receive first a verbal warning. The second time, the student will receive a written warning. The third time, the instructor will report the student to the Office of Student Conduct, complete a misconduct form and initiate a process to drop the student from the course.

**IMPORTANT THINGS TO DO IN EVERY SESSION:**

- Print the powerpoint slides before a chapter coverage, so you won’t be taking unnecessary notes. Lecture will not stop to wait for students taking notes of what is already shown on the slides.
- Complete the Learnsmart assignment before a chapter is discussed in class.
- Bring a calculator to every session, starting with the first day of classes.
- Bring any necessary tables (Z, t, F) to every related session.
- Do not expect a repeated lecture after you miss a session. Ask “old” questions until class ends.

**COURSE OUTLINE AND METHOD OF INSTRUCTION:** Review of selected concepts from chapters 3, 7, 8 and 9, review and complete coverage of chapters 10 and 13, and complete coverage of chapters 11, 12 and 14. The material will be explained and discussed using a lecture approach emphasizing participative problem-solving and online assignments. Power Point slides will be available in CourseDen.

**CLICKER INSTRUCTIONS:**

At the beginning of the course, you will be assigned a clicker by the instructor. You are responsible for remembering your clicker number. If you don’t remember your number, ask the instructor, but do not pick any other clicker. Turn your cell phone off (no silent mode) and put it back into the clicker slot.

Make sure the clicker is working properly (red light does not flash after submitting an answer). If the clicker is not working properly, let the instructor know, so he can provide new batteries or a new clicker. Important: unless authorized by your instructor, you should never use a clicker other than the one assigned to you. If you submit answers for an absent student, you will get an automatic zero on your clicker grade for that day and a warning for cheating.

**Final Letter-Grade Assignment (strictly enforced). No further adjustments will be made.**

0 – 59.99: F  
 60 – 69.99: D  
 70 – 79.99: C  
 80 – 89.99: B  
 90 – 100: A

**THREE IMPORTANT TIPS TO BE A GOOD STUDENT:**

- Attend classes and be punctual. After you graduate, that is going to be an essential requirement in almost any job. Do not plan on being responsible and respectful until some day in the future. You should start today.
- Make every class session a study session. Focus and pay attention. Participate, get involved, ask questions, and work every problem and every operation, no matter how small they are. Stay

away from distractions: electronic devices, sitting next to “buddies”, potential new girlfriend/boyfriend, and so on.

- Study daily. If possible, at the same time and location. Assign a reasonable amount of time (30 - 40 minutes) and never miss it. Consistency will always take you very far into the path of success.



### **IMPORTANT DOCUMENT**

Please carefully review the following information at this link:

[http://www.westga.edu/assetsDept/vpaa/Common\\_Language\\_for\\_Course\\_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf)

It contains important material pertaining to your rights and responsibilities in this class. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

**TENTATIVE SCHEDULE FOR ECON 3406, FALL 2016. DEVIATIONS MAY OCCUR**

<b>Week</b>	<b>Material</b>
8/10	Syllabus, Review Econ 3402 (chapters 3-7, 9)
8/15	Syllabus quiz, chapters 3-7, 9
8/17	Chapters 3-7, 9
8/22	Chapters 3-7, 9
8/24	Chapters 3-7, 9
8/29	Chapters 3-7, 9
8/31	Test 1 (Chapters 3-7, 9)
9/5	Labor Day Holiday
9/7	Chapters 10 & 11
9/12	Chapters 10 & 11
9/14	Chapters 10 & 11
9/19	Chapters 10 & 11
9/21	Chapters 10 & 11
9/26	Chapters 10 & 11
9/28	Chapters 10 & 11
10/3	Test 2 (Chapters 10 & 11)
10/5	Chapters 12 & 13
10/10	Chapters 12 & 13
10/12	Chapters 12 & 13
10/17	Chapters 12 & 13
10/19	Chapters 12 & 13
10/24	Chapters 12 & 13
10/26	Chapters 12 & 13
10/31	Chapter 14
11/2	Test 3 (Chapters 12 & 13)
11/7	Chapter 14
11/9	Chapter 14
11/14	Chapter 14
11/16	Chapter 14
11/21	Thanksgiving Break (no classes)
11/23	Thanksgiving Break (no classes)
11/28	Chapter 14
11/30	Test 4