Econ 3406: Statistics for Business II

University of West Georgia Summer 2017

Instructor: Dr. Heather R. Bono

Contact Info: hrichard@westga.edu

Office: RCOB 1219

Office Hours: M-F 8:00am-10:00am and by appointment

Course/Section/Time
Econ 3406-N03 Required Final Exam: Friday, June 23, 2017 at 11:00am EST in Miller Hall 1309

Required Text: Statistical Techniques in Business and Economics by Lind, Marchal, and Wathen (16th edition). You will also need to purchase access to the Connect software with access to Learn Smart.

Bookstore: http://www.bookstore.westga.edu/

Prerequisites: ECON 3402 or MATH 2063 and MATH 1413. You also need to have access to a computer and you must have access to the Internet and Microsoft Excel.

Course Learning Objectives: Upon completion of this course, students are expected to have a basic understanding of:

1. Recognize the role that quantitative models play in the decision making process (LG2)
2. Be able to transform a rather general problem into a well-defined problem that can be solved quantitatively (LG2)
3. Be able to apply basic quantitative models to business situations (LG2)
4. Demonstrate the ability to collect and input data into basic quantitative models (LG2, LG3)
5. Be able to solve models "by hand" and with specialized computer software, spreadsheets and graphical packages (LG2, LG3)
6. Describe specific quantitative models including linear regression and others applicable to business decision making (LG2)
7.

Note: A complete list of expected learning goals (LG) for the Richards College of Business can be found at http://www.westga.edu/business/undergrad_learning_goals.php
**Evaluation:** Final grades are based on your performance on the following:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>% of final grade</th>
</tr>
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<tbody>
<tr>
<td>9 quizzes (after 1 drop)</td>
<td>65%</td>
</tr>
<tr>
<td>9 Learn Smart Reading Assignments (after 1 drop)</td>
<td>10%</td>
</tr>
<tr>
<td>Regression Assignment</td>
<td>5%</td>
</tr>
<tr>
<td>Final Exam June 23, 2017 at 11:00am in Miller Hall 1309</td>
<td>20%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Final grades for this course will be assigned using this exact distribution (see table below). **Final grades will not automatically be “rounded up”**. For example, if a student average is 89.99, a final grade of “B” will be assigned for the course. You would need an average of 90 or more for a final grade of “A”.

<table>
<thead>
<tr>
<th>Final Average</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90 or higher</td>
<td>A</td>
</tr>
<tr>
<td>80 up to 90</td>
<td>B</td>
</tr>
<tr>
<td>70 up to 80</td>
<td>C</td>
</tr>
<tr>
<td>60 up to 70</td>
<td>D</td>
</tr>
<tr>
<td>Below 60</td>
<td>F</td>
</tr>
</tbody>
</table>

Class notes, video lectures, sample problems, syllabus, link to the course Connect website, and other materials can be found on CourseDen. All grades will be recorded on the grade tab on CourseDen. If you have any questions, concerns, complaints, etc. about your grade, you MUST bring it to the instructor’s attention within 48 hours of the grade being posted in CourseDen. **Grade issues (missing or “incorrect”) that are not brought to the instructor’s attention until the end of the semester will not be addressed.**

**Attendance:** This is an online class where work is completed independently with scheduled deadlines for assignments. Students who miss these deadlines will forfeit those points. All deadlines are scheduled in advance. It is the responsibility of the student to make adjustments to their own schedules to fit the requirements of the course. This is not an independent study or self-paced course, but instead is delivered as asynchronous instruction which means that you can access the material you need without time/place constraints (attending a regular class). This allows you the flexibility you need but there are still firm deadlines and a set “pace” to the course. To be successful in the course, you will need to be comfortable interacting in an online setting. If this does not suit your learning style or fit your academic needs, check the UWG class bulletin for alternative classes. **You are expected to log in and review the lectures and other materials everyday throughout the term.**

The last day to withdraw with a grade of “W” is June 9, 2017 by 4:00pm. Please be aware that UWG has instituted a new limited withdrawal policy as of Fall 2013, information is available here: [http://www.westga.edu/registrar/1560.php](http://www.westga.edu/registrar/1560.php).

**Face-to-Face Final Exam:** There will be a required face-to-face final exam given on June 23, 2017 at 11:00am in Miller Hall 1309. This exam will be comprehensive. The exam will begin promptly at the scheduled time. You must be on time to take the exam. If you are late and someone else has already turned in his or her exam, you **WILL BE DENIED** access and will not be allowed to take the exam. Please allocate plenty of time for handling parking or traffic delays. **Every student should bring an ID (either government issued – driver’s license/passport or UWG ID).** The exams will be based on class notes, video lectures, assigned readings, and quizzes.
IMPORTANT TESTING INFORMATION: Please note that this course requires a face-to-face final exam which is scheduled to take place on Friday, June 23, 2017 at 11:00am in Miller Hall Room 1309. If you require a proctored test in an alternative location, you must contact me during the first week of class to work out the details in advance so that a test can be provided for you. There are multiple steps in the test proctoring process to allow us to coordinate across multiple departments and universities, therefore last minute proctoring requests cannot be granted. Please note, proctored tests generally carry an additional fee from the testing center that must be paid by the student and the proctoring window for this course is June 21-23, 2017.

There are NO make-ups for the final exam, EXCEPT for university approved excuses, examples would be severe/contagious illnesses, hospitalization, university sanctioned events where you are a required participant, or jury duty. You MUST provide appropriate documentation and notify me via my WestGA email address (please do not contact me regarding missed exams via CourseDen). Only students with appropriate documentation will be allowed to make-up a missed exam. Make-up exams will be provided after appropriate documentation has been received.

On test day, phones, music devices, and any other electronic device or auxiliary devices (ex: headphones, Bluetooth headsets, cameras, etc.) are not allowed on your desk. Watches must also be removed and placed in your bag. Failure to follow this test day procedure will result in action in accordance with the academic dishonesty policy. You may use a calculator on the exams; however, cell phones or other electronic devices (laptops, tablets, smart watches, etc.) may not be used as calculators. You may not share calculators with your classmates.

Quizzes: Ten quizzes will be given throughout the semester. Only nine will be used in your final grade calculation (the lowest grade out of the 10 offered will be dropped). These will consist of a combination of multiple choice and short answer/problem solving questions.

You will have two attempts on each quiz and 60 minutes to complete. You can take each quiz up to two times and the highest grade will be recorded. The answers to the quiz questions will not be revealed until after the deadline for completion has passed. Each quiz will have specific due dates and times (time limits apply). The specific available and due dates/times can be found on the class schedule at the end of this syllabus and are posted on the calendar in CourseDen. The time limit starts for a particular attempt once you have begun the quiz. You WILL NOT be able to stop and come back to the attempt later.

There are NO MAKE-UPS for these assignments. Quizzes will not be reopened FOR ANY REASON once the deadline for completion has passed.

Any issues, technical or otherwise, concerning the quizzes must be addressed no later than the day before the deadline for completion. You should keep in mind that emails sent after 3:00pm will not receive a response until after 8:00am the following day (excluding the weekends, emails sent after 3:00pm on Fridays will not receive a response until after 8:00am the following Monday). Any email sent after 3:00 pm on the due date will not receive a response until the next day after 8:00am, and you will not receive an extension and the assignment will not be reopened. Once the deadline has passed, any unattempted quiz will result in a grade of zero.

You can complete your quizzes using the student computer labs on campus or on your own equipment. Keep in mind that technology problems often seem to occur at the worst possible times. I encourage every student to have a back-up plan and complete their work well in advance of deadlines in case their technology fails. You should have an alternate computer access plan if your ISP suddenly goes out of business, or your disk crashes, or you experience some other personal hardware issue. You are responsible for having an emergency alternative computer access plan. Know in advance where you
can go (library, Internet café, friend’s house, workplace) if your primary system fails. Unreliable Internet access or inability to login will result in missed deadlines and forfeited points.

If you are experiencing technical issues with CourseDen or Connect (not your computer/ISP) that are preventing you from submitting your homework, you have two responsibilities: 1) **immediately** contact the appropriate technical support: for **CourseDen related problems** contact the Help Desk by phone: 678-839-6248 or by email: distance@westga.edu. If it’s after office hours you can go to https://D2LHelp.view.usg.edu. For **Connect related problems** contact their technical support using information located at [http://mpss.mhhe.com](http://mpss.mhhe.com) 2) Notify me via my WestGa email address (do **not** do this through the email offered in CourseDen) **after** you contact the Help Desk or technical support.

**Learn Smart Assignments:** Ten Learn Smart activities will be assigned throughout the semester via the Connect Website. Only nine will be used in your final grade calculation (the lowest grade out of the 10 offered will be dropped). These assignments will correspond to various chapters throughout the text. There are NO MAKE-UPS for these assignments NO MATTER THE REASON. Assignments will not be reopened once the due date/time has passed. You should read the chapter before completing these assignments. Specific Learn Smart Assignment due dates/times can be found on the class schedule at the end of this syllabus and are posted on the calendar in CourseDen. I encourage you to complete the Learn Smart Assignments before attempting the quizzes.

There are NO MAKE-UPS for these assignments. Learn Smart assignments will **not** be reopened FOR ANY REASON once the deadline for completion has passed.

Any issues, technical or otherwise, concerning the Learn Smart assignments must be addressed **no later than the day before the deadline for completion.** You should keep in mind that emails sent after 3:00pm will not receive a response until after 8:00am the following day (excluding the weekends, emails sent after 3:00pm on Fridays will not receive a response until after 8:00am the following Monday). Any email sent after 3:00 pm on the due date will not receive a response until the next day after 8:00am, and you will not receive an extension and the assignment will not be reopened. Once the deadline has passed, any unattempted Learn Smart assignment will result in a grade of zero.

You can complete your Learn Smart assignments using the student computer labs on campus or on your own equipment. Keep in mind that technology problems often seem to occur at the worst possible times. I encourage every student to have a back-up plan and complete their work well in advance of deadlines in case their technology fails. You should have an alternate computer access plan if your ISP suddenly goes out of business, or your disk crashes, or you experience some other personal hardware issue. You are responsible for having an emergency alternative computer access plan. Know in advance where you can go (library, Internet café, friend’s house, workplace) if your primary system fails. Unreliable Internet access or inability to login will result in missed deadlines and forfeited points.

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**Regression Assignment:** One regression assignment will be assigned. This is designed to familiarize you with how to use Microsoft Excel to conduct regression calculations. You will be required to provide descriptive statistics, computer graphics, statistical tests, regression analyses, etc. You will
need to submit the computer output and supplement those calculations with a written report or discussion illustrating your ability to interpret the Excel output. This assignment should be your own work and individual thoughts. Any students who submit the same regression assignment will each receive a grade of zero.

Regression assignments must be turned into the CourseDen dropbox (assignment) folder by the due date/time. Because you can turn these assignments in at your convenience no late work will be accepted, NO MATTER THE REASON. Specific due dates can be found on the class schedule at the end of this syllabus and are posted on the calendar in CourseDen. Any student who does not turn in his or her Excel assignments by the scheduled due date will receive a zero.

Emailed assignments will NOT be accepted. If you have trouble uploading your completed assignment to the CourseDen dropbox (assignment) folder, you must notify me in writing no later than 2:00pm on the scheduled due date, failure to do so will result in a grade of zero if the assignment is not turned in to the dropbox (assignment) folder by the deadline. Requests to turn in regression assignments after the deadline will be denied NO MATTER THE REASON. You should ensure that your Excel file is saved properly and can be reopened for grading. If you are unsure that your file has been saved properly, you should notify me no later than 2:00pm on the scheduled due date. If I cannot open your submitted Excel file for grading, a grade of zero will be given and no resubmission will be allowed.

IT IS YOUR RESPONSIBILITY TO SUBMIT THE FILE YOU WISH TO HAVE GRADED BEFORE THE SUBMISSION DEADLINE. ONLY FILES SUBMITTED TO THE COURSEDEN DROPBOX (assignments) FOLDER WILL BE GRADED. NO RESUBMISSIONS WILL BE ALLOWED FOR ANY REASON. NO EXCEPTIONS!

You should keep in mind that emails sent after 3:00pm will not receive a response until after 8:00am the following day (excluding the weekends, emails sent after 3:00pm on Fridays will not receive a response until after 8:00am the following Monday). Any email sent after 3:00 pm on the due date will not receive a response until the next day after 8:00am, and you will not receive an extension and the assignment will not be reopened. Once the deadline has passed, any unattempted regression assignment will result in a grade of zero.

Extra Credit Opportunities: Any extra credit opportunities will be announced via CourseDen with the corresponding deadlines and will be offered to the class as a whole. The pursuit of extra credit is optional and is offered at the discretion of the instructor, and there is no guarantee of extra credit availability in this course.

Class Policies:
- Food is not allowed in any of the classrooms.
- Cell phones should be placed on silent or turned off and placed in your bag.
- Headphones and sunglasses (unless worn for medical reasons, this requires documentation) should be removed.
- All watches (smart and otherwise) must be removed and placed in your bag on exam day.
- Be on time.

WOLF PACT: By enrolling and continuing in this course you agree to the following: Having read the Honor Code for the University of West Georgia, I understand and accept my responsibility to uphold the values and beliefs described therein and to conduct myself in a manner that will reflect the values of the Institution and the Richards College of Business so as to respect the rights of all UWG community members. As a UWG student, I will represent myself truthfully and complete all academic assignments honestly and within the parameters set by my instructor. I understand and accept that if I
am found guilty of violations (through processes due me as a UWG student and outlined in the UWG Student Handbook), penalties will be imposed. I also recognize that my responsibility includes willingness to confront members of the UWG community if I feel there has been a violation of the Honor Code. Ultimately, I will conduct myself in a manner that promotes UWG as the best place to work, learn, and succeed for my generation, and those to come!

**Email Policy:** University of West Georgia students are provided a MyUWG e-mail account. The University considers this account to be an official means of communication between the University and the student. It is the student’s responsibility to check his or her email. All correspondence between you and I should be via UWG e-mail. I will not respond to e-mails sent from personal e-mail accounts. I will respond to emails between the hours of 8:00am and 3:00pm each day (excluding the weekends). Emails after 3:00pm will not receive a response until the next day after 8:00am. Emails sent after 3:00pm on Fridays will not receive a response until the following Monday after 8:00am.

**Academic Dishonesty:** Cheating on any test or assignment will result in a zero on the test or assignment and will be reported to Student Services for appropriate disciplinary action by the University. Students not familiar with what constitutes academic dishonesty should refer to the Student Handbook and Undergraduate Catalog: [http://www.westga.edu/undergrad/1762.htm](http://www.westga.edu/undergrad/1762.htm).

The following are some examples of violations of the honor code in this course:
- Talking to classmates during exams.
- Looking at other students' exams.
- Texting or emailing during exams.
- Having on watches or having your cell phone out during exams.
- Borrowing/sharing calculators during exams.
- Using cheat sheets or writing notes on desks.
- Having another student complete an online quiz or Learn Smart assignment for you.
- Giving out your MyUWG login information.

**Cancellation:** In the event that class is cancelled, I will communicate it with you as quickly as possible via CourseDen and WestGa email, and any relevant assignments or course announcements will be posted on CourseDen. Please review UWG’s Emergency Closing Policy for inclement weather located here: [http://www.westga.edu/police/index_5102.php](http://www.westga.edu/police/index_5102.php).

**Students with Disabilities:** Students with disabilities that have been certified by the Office of Accessibility Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The Office for Accessibility Services is located in 123 Row Hall at the Student Development Center, telephone 678-839-6428, [http://www.westga.edu/studentDev/index_8884.php](http://www.westga.edu/studentDev/index_8884.php).

**Credit Hour Policy (3 credit hours):** For approximately fifteen weeks, students in this class will generally spend 150 minutes with direct faculty instruction (either face-to-face or online) and work about 360 minutes outside of the classroom each week. This out-of-class work may include, but is not limited to, readings, assignments, projects, group work, research, and test preparation.

**Tobacco and Smoke-Free Campus Policy:** Effective August 1, 2014, the use of all forms of tobacco products on property owned, leased, rented, in the possession of, or in any way used by the USG or its affiliates is expressly prohibited. “Tobacco Products” is defined as cigarettes, cigars, pipes, all forms of smokeless tobacco, clove cigarettes and any other smoking devices that use tobacco such as hookahs or simulate the use of tobacco such as electronic cigarettes. This policy applies to all persons who enter the areas described above, including but not limited to students, faculty, staff, contractors and subcontractors, spectators, and visitors. All events hosted by a USG entity shall be tobacco-free. All
events hosted by outside groups on behalf of the USG shall also be tobacco-free. Violation of this policy may result in corrective action under the Student Code of Conduct or campus human resource policies. Visitors refusing to comply may be asked to leave campus. The full policy is available here: http://www.usg.edu/policymanual/section9/C503.

**Other Important Information:** Students, please carefully review the following information at this link 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.

**Registering Connect:** You will need to do this as soon as possible. Your first scheduled assignment has a due date of June 1 at 11:59pm. The registration will be available until June 2, 2017. You can either purchase through the Connect website or by access code sold with the hard copy of the book. Purchasing directly through the Connect website will give you access to the eBook. You should ensure that with the option that you purchase you should have access to Learn Smart.
## Tentative Class Schedule

### Topics and Assignment Availability

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Topics and Assignment Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 &amp; 3</td>
<td>Introduction/Review of Stats 1 Basics/Review of Normal Distribution  &lt;br&gt;<strong>Syllabus Acknowledgement due by 11:59pm Wednesday, May 31, 2017</strong>  &lt;br&gt;<strong>Quiz #1 and Learn Smart #1 due by 11:59pm EST on Thursday, June 1, 2017</strong></td>
</tr>
<tr>
<td>7 &amp; 8</td>
<td>Review of Normal Distribution and Central Limit Theorem  &lt;br&gt;<strong>Quiz #2 and Learn Smart #2 due by 11:59pm EST on Friday, June 2, 2017</strong></td>
</tr>
<tr>
<td>9</td>
<td>Estimation and Confidence Intervals  &lt;br&gt;<strong>Quiz #3 and Learn Smart #3 due by 11:59pm EST on Monday, June 5, 2017</strong></td>
</tr>
<tr>
<td>10</td>
<td>One-Sample Tests of Hypothesis  &lt;br&gt;<strong>Quiz #4 and Learn Smart #4 due by 11:59pm EST on Wednesday, June 7, 2017</strong></td>
</tr>
<tr>
<td>11</td>
<td>Two-Sample Tests of Hypothesis  &lt;br&gt;<strong>Quiz #5 and Learn Smart #5 due by 11:59pm EST on Friday, June 9, 2017</strong></td>
</tr>
<tr>
<td>12</td>
<td>Analysis of Variance  &lt;br&gt;<strong>Quiz #6 and Learn Smart #6 due by 11:59pm EST on Monday, June 12, 2017</strong></td>
</tr>
<tr>
<td>13</td>
<td>Correlation and Linear Regression  &lt;br&gt;<strong>Quiz #7 and Learn Smart #7 due by 11:59pm EST on Wednesday, June 14, 2017</strong></td>
</tr>
<tr>
<td>14</td>
<td>Multiple Regression Analysis (omit section 7)  &lt;br&gt;<strong>Quiz #8 and Learn Smart #8 due by 11:59pm EST on Friday, June 16, 2017</strong></td>
</tr>
<tr>
<td>15</td>
<td>Non-parametric Methods: Nominal Level Hypothesis Tests (omit section 4)  &lt;br&gt;<strong>Quiz #9 and Learn Smart #9 due by 11:59pm EST on Monday, June 19, 2017</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Regression Assignment</strong>  &lt;br&gt;<strong>Regression Assignment due in CourseDen assignment folder (previously called dropbox) by 11:59pm EST on Tuesday, June 20, 2017</strong></td>
</tr>
<tr>
<td>18</td>
<td>Time Series and Forecasting (sections 1-7)  &lt;br&gt;<strong>Quiz #10 and Learn Smart #10 due by 11:59pm EST on Wednesday, June 21, 2017</strong>  &lt;br&gt;<strong>Optional Review Session Thursday, June 22, 2017, 1:45-2:45pm in Miller Hall 1309</strong>  &lt;br&gt;<strong>Required Final Exam Friday, June 23 at 11:00am in Miller Hall 1309</strong></td>
</tr>
</tbody>
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**Note:** This schedule provides a general plan for the course. More topics may be covered if time permits. All assignment (tests and other assignments) **due dates will remain fixed**. However, **material covered for each are tentative** and deviations may be necessary depending upon the progress of the class. Changes will be announced in class and updated on the CourseDen calendar.